

# 2018-2019

## COLLEGE CATALOG



EST.

1908

SUNY MORRISVILLE

SUNY MORRISVILLE



# College Catalog

2018-2019

SUNY MORRISVILLE

State University of New York

College of Agriculture & Technology

P.O. Box 901

Morrisville, New York 13408

[www.morrisville.edu](http://www.morrisville.edu)

315.684.6000

© 2018

# College Directory

Office	Phone #	Fax #
Academic Enrichment Center	315-684-6075	315-684-6503
Admissions	315-684-6046	315-684-6427
Affirmative Action/Title IX	315-684-6038	315-684-6859
Alumni/Institutional Advancement	315-684-6030 800-462-4723	315-684-6379
Athletic Department	315-684-6072	315-684-6252
Bills & College Accounts	315-684-6069	315-684-6261
Disability Specialist	315-684-6349	315-684-6503
Educational Opportunity Program (EOP)	315-684-6075	315-684-6503
Financial Aid	315-684-6289 800-626-5844	315-684-6628
Institutional Diversity	315-684-6067	315-684-6503
International Students	315-684-6075	315-684-6503
Library	315-684-6055	315-684-6115
Norwich Campus (Roger W. Follett Hall)	607-334-5144	607-336-2512
Open Recreation/Intramurals	315-684-6251	315-684-6252
Career Services	315-684-6275	315-684-6615
President	315-684-6044	315-684-6109
Provost Office	315-684-6054	315-684-6109
Registration/Student Records	315-684-6066	315-684-6421
Residence Life (Housing)	315-684-6043	315-684-6596
School of Agriculture & Natural Resources	315-684-6083 or 315-684-6056	315-684-6125
School of Business	315-684-6056	315-684-6616
School of General Studies	315-684-6067 315-684-6075	315-684-6503
School of Liberal Arts	315-684-6081	315-684-6322
School of Science, Technology & Health Studies	315-684-6079	315-684-6024
Student Activities	315-684-6238	315-684-6707
Student Affairs (Dean of Students)	315-684-6070	315-684-6596
Student Health Services	315-684-6078	315-684-6493
University Police Department	315-684-6410	315-684-6121
Veterans Affairs	315-684-6066	315-684-6421
Workforce Development Office	607-334-5144	607-336-2512
Main Switchboard/Information	315-684-6000	315-684-6116
Morrisville Auxiliary Corporation	315-684-6047	315-684-6168

# Table Of Contents

Sect.	Subject	Page
I	General Information .....	6
II	Admission .....	11
III	Norwich Campus .....	16
IV	College Planning	
	Costs.....	20
	Financial Aid.....	23
	Federal Aid.....	25
V	Scholarships and Awards .....	29
VI	Academic Information.....	38
VII	The College Community .....	56
VIII	School Information and Curriculum Outlines .....	65
	Bachelor Degrees.....	69
	Associate Degrees.....	91
	Certificate Programs.....	133
IX	Directory of Courses .....	135
X	Community Directories	
	SUNY Board of Trustees.....	209
	SUNY Morrisville Council.....	209
	Faculty/Staff Directory.....	209
	Faculty and Professional Emeriti.....	223
	Morrisville College Foundation, Inc.....	224

# 2018-19 Academic Calendars

## Fall 2018

---

Classes Begin	Monday	August 27
October Break	Monday & Tuesday	October 8-9
Thanksgiving Break	Wednesday-Friday	November 21-23
Classes End	Friday	December 7
Finals Week	Monday-Friday	December 10-14

---

## Winter 2018-19

---

Classes Begin	Monday	December 17
Classes End	Friday	January 18

---

## Spring 2019

Classes Begin	Monday	January 21
Spring Break	Monday-Friday	March 11-15
Classes End	Friday	May 3
Finals Week	Monday-Friday	May 6-10
Commencement	Saturday	May 11



The college does not discriminate on the basis of race, color, religion, national origin, age, handicap, sexual orientation, marital or parental status in employment, admissions or the educational programs or activities which it operates.





# SUNY MORRISVILLE

## A College that Works in a System that Excels

### **Vision**

SUNY Morrisville aspires to be a recognized leader in innovative applied education.

### **Mission**

SUNY Morrisville works to offer diverse learning experiences so that graduates may pursue rewarding lives and careers, become engaged citizens, and contribute to our collective future.

### **Morrisville Works to:**

#### **Inspire Learning through Experience**

Goal 1: To offer career-focused, experiential learning

Goal 2: To promote inquiry and scholarship at all levels

Goal 3: To enhance cultural competency and promote equity and inclusion

#### **Build Community**

Goal 4: To create a vibrant campus community for personal interaction and growth

Goal 5: To engage the local community in civic and cultural affairs

Goal 6: To promote regional, state-wide and international partnerships

#### **Achieve a Sustainable Future**

Goal 7: To develop campus resources and operations with minimum resource footprint

Goal 8: To achieve effective and sustainable levels of required resources

Goal 9: To assess and document success in achieving the College's mission

# I

## General Information

The College of Agriculture and Technology at Morrisville is a unit of the State University of New York. SUNY Morrisville is a residential college with approximately 3,300 students. The main campus is located in Morrisville and a second campus is located in Norwich. The college offers bachelor and associate degrees as well as certificate programs. The associate degrees lead to A.A., A.S., A.A.S., and A.O.S. The bachelor degrees are B.Tech., B.S. and B.B.A.

SUNY Morrisville was founded in 1908 as an agricultural school. In 1948 the New York State Agricultural and Technical Institute at Morrisville became part of the State University of New York, and in 1964 it was renamed the State University of New York Agricultural and Technical College at Morrisville. In 1987 it was named the State University of New York College of Agriculture and Technology at Morrisville.

### The SUNY Morrisville Campus

The Morrisville campus is situated on 150 acres of land in the village of Morrisville. More than 48 buildings, athletic fields, service roads, parking facilities and more than 1,000 acres of farm and woodland are used for instructional purposes.

In recent years the college has grown rapidly in the number of students, academic programs and residential facilities. Eleven on-campus living options can house approximately 2,000 students. Special residence options include quiet study, apartment and suite-style living, singles, and split doubles. Students who are in need of special housing accommodations should contact the Residence Life Office. The John W. Stewart Center for Student Activities houses a gymnasium, 350-seat theatre, laptop lounge, food court, coffee shop, student lounge, and fitness center.

A recreation building with indoor tennis, basketball, volleyball, and track facilities is available. The college also has a fully functional, student-run travel agency, student restaurant, and two indoor ice arenas. In addition to the library and academic buildings for labs and classrooms, specialized facilities are provided for technical curricula.

The college is located in Morrisville, New York on Route 20, 30 miles southeast of Syracuse, 30 miles southwest of Utica and one-half hour drive from Thruway exit 34 at Canastota. Travel connections by air are made at Hancock International Airport in Syracuse. Train connections are made in Syracuse or Utica. Morrisville is serviced directly on a daily basis by Chenango Valley Bus Lines with connecting service from Utica or Binghamton via Shortline Bus Lines.

### The Norwich Campus

The Norwich Campus offers quality, personalized education and training to residents and employers of Chenango County and south central New York. The Campus is located 35 miles south of Morrisville in downtown Norwich, New York, in the state-of-the-art Roger W. Follett Hall, adjacent to the Eaton Center. The campus currently serves approximately 600 commuter students enrolled in high demand career and technical programs, business, nursing, and liberal arts transfer programs. The campus features wireless technology, "smart" classrooms, computer and science laboratories, a Library, the college store, and other campus services. (See Section III for more information.)

### Statement of Student, Faculty & Staff Responsibility for SUNY Morrisville

The opportunity to gain a college education and a skill for lifelong advancement is a significant junction in one's life. Approximately 30 percent of the adult population of this nation has taken and capitalized on this opportunity. Your college experience offers you a chance to succeed. Yet, with this opportunity comes responsibility.

Responsibility is a common thread that crosses all on the Morrisville campus. Each individual is responsible for his or her actions as they relate to every other person and to the campus community. In this regard; SUNY Morrisville has created a Statement of Responsibility for students, faculty and staff of the campus. Each person must take responsibility for his or her actions as they contribute to or hinder the success of the overall campus community.

It is anticipated that in placing these responsibilities in writing and sharing

them widely each person on the Morrisville campus will have a fuller understanding of their meaning. Students should expect their campus to be a "home away from home," whether in the classroom or in the residence halls.

The following are general statements of responsibility.

Faculty members are responsible to the college community, central administration and the citizens of the State of New York in their roles as teachers. In this light, they will provide a classroom demeanor that encourages students to learn and personally set an example of how to conduct oneself on the job.

Characteristics such as the following are important aspects of this demeanor:

- Prompt attendance at stated times/holding classes for their stated lengths Preparation for the day's activities
- Motivating students to reach their full potentials
- Maintaining a positive classroom decorum where non- topic related discussions are held to a minimum, student attendance is required, class preparation and evaluation are required, and where on-topic dialogue is expected
- Office hours are held when stated
- Willingness to assist students' when/where they need help
- Acting as mentors as well as teachers, recognizing that faculty members are a major reason students remain in college
- Promoting out-of-class study
- Maintaining civility in the classroom
- Being professionally objective in the conduct of their classes

SUNY Morrisville students are expected to be responsible for their actions as they relate to in-class and out-of-class activities.

It is expected and it is the student responsibility in classes to:

- Arrive to the class/laboratory on time and enter with respect for others.
- Remain attentive in class.
- Prepare for each class. This means preparation of assignments as well as preparation for participation.
- Attend all classes (legitimate excuses are understood). (Letting the faculty member know of the absence prior to class is good business on the part of the student.)
- Refrain from non-topic, side conversation.
- Be prompt on meeting scheduled times (class time, due date of reports, etc.)
- Work with others as assigned to complete an assignment carrying out his or her portion of the assignment to its fullest.
- Be respectful of the faculty member(s) and the other students in one's acts and deeds.
- Assist faculty by indicating to them understanding or lack of understanding of a concept, assignment, etc.

It is expected and it is the responsibility of students outside classes to be:

Respectful of others

Maintain the procedures and policies as expressed in the *Student Handbook* (for example: maintenance of quiet hours, respect and value others' time and space, work positively to enhance living conditions, etc.)

Maintain academic honesty (i.e.: citing work of others when it is used, use computers as academic tools, not as entitlements, etc.)

Observe the code of conduct as expressed in the *Student Handbook*

SUNY Morrisville administrators are responsible for their actions as they relate to supporting the learning process, maintaining facilities and administering the college. It is expected and it is the responsibility of administrators to:

- Create a class schedule that meets student needs
- Support faculty in their role as educators
- Maintain a “home” atmosphere for students in the residence halls
- Provide quiet, appropriate study space
- Beautify the campus
- Be prompt in addressing issues
- Be creative in setting plans and goals
- Share important information as it becomes available
- Work collaboratively to build a strong, positive campus community

## SUNY Morrisville Civility Statement

The students, administration, faculty and staff of this college publicly declare that all members of the college community will strive to develop and demonstrate respect for one another. Civility reflects our consideration for others and our appreciation of the diversity exemplified both by SUNY Morrisville and our greater society.

November 9, 2004

## ThinkPad University

SUNY Morrisville has undertaken an academic initiative which integrates computers into the teaching and learning environment in a way which allows students access to technology from any place at any time. In partnership with IBM/Lenovo, SUNY Morrisville is the first of the State University's 64 campuses to become a ThinkPad University, supplying students with laptop computers, and one of the first in the nation with a wireless program.

Every student beginning a ThinkPad University curriculum will receive an IBM/Lenovo ThinkPad laptop, carrying case, and software. As a result of the college's partnership with IBM/Lenovo, the college's Auxiliary Corporation (MAC) is able to provide the laptop at a price well below market value. The cost will be included on the college bill. Financial aid and scholarships may be available to those who qualify.

The entire campus, including all residence halls, all classrooms, labs, common areas, lounges, the dining hall, and Mustang Alley, has wired or wireless access and the laptop computer is the focal point for teaching, learning, student research and communications. A Help Desk is staffed to assist students with laptop hardware or software problems. Questions may be called in, walked in, or e-mailed to the Help Desk for a response. An on-campus warranty repair center, operated by MAC, employs certified technicians who handle warranty repairs conveniently and quickly. The warranty repair center is located at The Technology Center in Hamilton Hall. Currently, more than half of the college's degree programs are participating in the laptop program.

Curricula\* participating at this time in the ThinkPad University program are designated as such in the descriptions for each major on the “Programs of Study” page, or by visiting [www.morrisville.edu/thinkpad/laptopprograms.aspx](http://www.morrisville.edu/thinkpad/laptopprograms.aspx).

*\*Additional majors may be added at any time.*

For students who are not enrolled in participating ThinkPad curricula, but who are interested in purchasing a laptop, The Technology Center offers several ThinkPad options. For additional information on Morrisville's ThinkPad University program, go to [www.morrisville.edu/thinkpad](http://www.morrisville.edu/thinkpad).

## Wireless

Wireless/mobile access to the Internet and campus network blankets the entire Morrisville and Norwich campus and is available in each residence hall, every academic building, all classrooms and labs, all dining locations, library, equine center, dairy, Iceplex, the Copper Turret, and at a variety of outdoor areas including the football field. SUNY Morrisville's wireless technology facilitates

teamwork, collaborative learning, mobility, and prepares students for today's mobile workforce. Using Aruba's 802.11ac wireless and ThinkPad laptops, SUNY Morrisville has created a nomadic learning environment where students can learn and study in the location that is best for them.

## Cell Phones

Each SUNY Morrisville resident student is issued an AT&T cell phone for their use while living on campus. The AT&T cell phone includes unlimited text messaging and unlimited calling within the continental US. The cost of the cell phone, phone plan and cell phone services is incorporated in the residence hall fees. The Technology Center, located in Hamilton Hall, manages cell phone distribution and provides assistance for service and technical issues for student issued phones. For more information, contact The Technology Center at 315-684-6422.

## Registration & Accreditation

All bachelor and associate degree curricula are registered with the State Education Department. SUNY Morrisville is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104 267-284-5000. Programs in Electrical Engineering Technology and Mechanical Engineering Technology are accredited by the Technology Accreditation Commission of the Accrediting Board for Engineering and Technology. The Automotive program is accredited by the National Automotive Technicians Education Foundation. The associate degree nursing program is accredited by the Accreditation Commission for Education in Nursing. The Dietetic Technician program is accredited by the Academy of Nutrition and Dietetics, Accreditation Council for Education in Nutrition and Dietetics. The Bachelor and associate degrees in Business administration, accounting, office administration, office management, medical office administration and information processing are accredited by the accreditation Council for Business Schools and Programs. The educational program in the Natural Resources Conservation program, Forest Technology concentration leading to the AAS is accredited by the Society of American Foresters (SAF).

## Faculty

SUNY Morrisville has more than 140 full-time faculty members. Their full-time commitment is to undergraduate teaching. A low student-faculty ratio assures open and effective communication between faculty and students and most classes and laboratory sections are small. The college places primary emphasis on the quality of education and individual student guidance.

## Libraries

The SUNY Morrisville Library is an innovative learning environment dedicated to empowering all members of the college community to become confident and independent thinkers guided by the effective use of information resources.

Located near residence halls and academic buildings, the Donald G. Butcher Library is your source for a wide array of information services and resources. The Library is open seven days a week when classes are in session and offers wireless access, comfortable study areas, group study rooms, computer work stations, a document scanner, and quick print computer stations as well as reference consultations, interlibrary loan, and information literacy instruction. The Library has an iPad lending program and also loans laptop and cell phone power cords. Librarians are available to assist all members of the campus community in finding, accessing, and using information from Library and outside information resources. Online chat reference assistance is always available through our AskUs 24/7 service. The Library's digital collection includes more than 90 online databases with full text articles from more than 49,000 periodicals, online reference materials, streaming video, and thousands of electronic books. Our print and materials collection consists of over 80,000 books, 200+ journals and newspapers, and 1,300+ DVDs. The library's online catalog, course and subject guides, digital course reserves, and electronic resources can be accessed from anywhere on or off campus, 24 hours a day, seven days a week, via the Library's web page. The Library is also a campus community focal point that hosts a variety of events ranging from gallery and book displays to therapy dog visits during final exams. The Office of Diversity Equity and Inclusion, tutoring services, disabilities services, and



ONCAMPUS SUNY are also housed in the Library.

The Everett Gilmour Memorial Library is located at the Norwich Campus on the first floor of Roger W. Follett Hall. The Library is a satellite of the Butcher Library and houses a reference collection as well as a growing circulating collection. Norwich students have full access to Butcher Library print and online resources. The Gilmore Library supports wireless computer access and offers online computer workstations equipped with commonly used software applications. The Library is open weekdays.

### Technology Services

Every SUNY Morrisville student receives a user code and password for access to e-mail and the campus network and has the option of creating his/her own home page on the Web. A student has access to his/her Morrisville e-mail from anywhere in the world where they have access to the Web. Students can also select their housing preferences; find out their roommate, select their meal plan, access their class schedule, grades, and financial aid information – all from the Web.

The college maintains one large state-of-the-art computing lab for general student use. This CyberLab is open more than 72 hours per week and provides Morrisville students with access to a variety of software including e-mail, word processing, presentation graphics, the Internet and all the global resources available on the World Wide Web. More than 25 networked PCs with flat-screen monitors, several high-speed laser printers, a color laser printer and a scanner are available for student use in the CyberLab, which is staffed by proctors who are available to answer student questions. The college also maintains a student business center, where students can work, prepare presentations and handouts, and scan, print, or fax from a multi-function printer for free. The college also has a number of specialized computer laboratories supporting specific academic programs, including Office Technology, Computer and Information Technology, Landscape Architecture, Journalism, Math, Automotive, Agriculture and Natural Resources, Nursing, Social Sciences, and a CAD lab.

To learn more, visit SUNY Morrisville on the web at [www.morrisville.edu](http://www.morrisville.edu).

### Distance Education

SUNY Morrisville's on-line campus is directed at students who have an interest in college courses and have access to the Internet.

On-line courses can be taken for personal enrichment, college preparation, professional advancement, college credit, or toward a degree, and they can be taken at home or in the workplace. Students participating in the classes are able to work on course material at their convenience during the College's regular semesters. For more information, contact the Registrar's Office at 684-6066, or by e-mail, [registrar@morrisville.edu](mailto:registrar@morrisville.edu).

### Center for Lifelong Learning

The Center for Lifelong Learning coordinates the SUNY Morrisville campus continuing education programs for students of all ages. Services include College registration for part-time students and credit-bearing courses at off-site locations. For additional information contact the Registrar's Office at 315-684-6066.

### Career Services

Career Services provides a range of services and resources to assist students in defining and achieving their individual career goals. The office educates and guides students on all aspects of the career development process, from identifying and exploring career options to writing resumes, cover letters, and personal statements; networking; conducting internship and job searches; preparing for interviews; negotiating job offers; and applying to transfer and graduate programs. Career Services is also the central resource for finding on-campus jobs and for information on the employment and educational outcomes of alumni within the first year of graduation.

Students and alumni can connect with the office through individual advising in-person or phone appointments, drop-in hours, campus-wide and in-class workshops, and events such as the Job & Internship Fair, Healthcare Employer Expo, and Networking and Recruitment Series guest speakers program. The office offers many resources through its website, including CCN-Morrisville, the College's on-line job and internship board; FOCUS2, one of the most

effective self-assessment tools for students; and CandidCareer.com, What Can I Do With This Major?, and Vault: Business Intelligence for career exploration. Career Services works with students from both the Morrisville and Norwich campuses, as well as alumni. The office is located in 318-319 Crawford Hall.

### Advisory Committees

Advisory committees composed of representatives of business, industry and the professions provide continuing communications with the technologies. See advisory committee section of this catalog.

### Institutional Advancement

The Office of Institutional Advancement oversees the areas of development and alumni relations. The primary function of the office is to advance the College's mission through fundraising, advocacy, and building upon the College's reputation.

Institutional Advancement serves as the liaison between the college and the Morrisville College Foundation, Inc. The Foundation is a separate non-profit, 501(c) (3) organization founded in 1976 to receive gifts on behalf of the College, as is mandated by state education law. The Foundation is led by a 24-member volunteer board of directors, including an executive director employed by the college.

Through its fundraising efforts, the Foundation seeks to fill the growing gap between public funding and the actual costs of college operations. Advancement staff work closely with the Foundation Board to identify fundraising priorities and administers an annual giving program to help fund the College's immediate, ongoing needs including scholarships, faculty development, innovation grants and research projects, academic enrichment opportunities, athletics and other student life programs. The office also supports major and planned giving programs and capital campaigns that address the College's long-term needs such as endowments, capital projects, equipment needs and other important initiatives.

Private support from alumni, faculty and staff, emeriti and other individuals, as well as corporate and foundation support, allows the Morrisville College Foundation to provide vitally needed funding to the College through direct student aid, improving the quality of instruction, and facilitating academic excellence fueled by technology.

Institutional Advancement also coordinates a host of alumni programs and services, including special events like Mustang Weekend and reunions held in various locations around the country, publications featuring alumni and college news, career services, and mentoring and other volunteer opportunities, as well as affinity programs for insurance and credit card services. The office maintains a database and connections with well over 50,000 alumni, friends, and supporters.

For more information on Institutional Advancement, the Morrisville College Foundation, or for information on how to make a gift, call 315.684.6030.

### Student Confidentiality – General Policy

The privacy of student records is protected by the Family Educational Rights and Privacy Act of 1974 (Buckley Amendment) and subsequent amendments. No part of this academic procedure is intended to contradict or will be allowed to contradict this law. The full text of the SUNY Morrisville Procedure for Privacy of Student Records, can be found in the Student Handbook (available on the college intranet) and in the Office of Public Relations. The Public Relations Officer is the officer of record in that document.

### Institutional Diversity

The Diversity Strategic Plan lays a strong foundation for the campus community to engage in conversations to develop greater understanding of issues related to equity and inclusion. The Chief Diversity Officer is charged with creating a campus community where all members feel valued and included. The college's mission of acceptance and promotion of diversity will:

- Enrich the educational experience. People learn from those whose experiences, beliefs and perspectives are different from their own and

these lessons can be taught best in a richly diverse intellectual and social environment.

- Promote personal growth and a healthy society. Diversity challenges stereotyped preconceptions, encourages critical thinking and helps students learn to communicate effectively with people of varied backgrounds.
- Strengthen communities and the workplace. Education within a diverse setting prepares students to become good citizens in an increasingly complex, pluralistic society.
- Foster mutual respect and teamwork and help build communities whose members are judged by the quality of their character and their contributions.

## Sheila C. Johnson Institute

The Sheila C. Johnson Institute was established in 2002 by honorary doctor Sheila Johnson to promote diversity, leadership and scholarship on the SUNY Morrisville campus. The institute supports four separate initiatives that, throughout the year, assist the campus and students in reaching these goals. The initiatives are: 1) Student development programs; 2) Scholarship support; 3) Diversity related faculty recruitment initiatives; 4) Diversity/community service grants. To participate in the institute or for more information, contact Jeannette Evans, Dean of the School of General Studies at 315-684-6067.

## Nondiscrimination Policy

SUNY Morrisville is committed to fostering a diverse community of outstanding faculty, staff, and students, as well as ensuring equal educational opportunity, employment, and access to services, programs, and activities, without regard to an individual's race, color, national origin, religion, creed, age, disability, sex, gender identity, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military status, domestic violence victim status, or criminal conviction. Employees, students, applicants or other members of the College community (including but not limited to vendors, visitors, and guests) may not be subjected to harassment that is prohibited by law, or treated adversely or retaliated against based upon a protected characteristic.

The College's policy is in accordance with federal and state laws and regulations prohibiting discrimination and harassment. These laws include the Americans with Disabilities Act (ADA), Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, Title VII of the Civil Rights Act of 1964 as Amended by the Equal Opportunity Act of 1972, and the New York State Human Rights Law. These laws prohibit discrimination and harassment, including sexual harassment and sexual violence.

Inquiries regarding the application of Title IX and other laws, regulations and policies prohibiting discrimination may be directed to Marquis Bennett, Title IX Coordinator, Butcher Library, 315-684-6075, email: [bennetml@morrisville.edu](mailto:bennetml@morrisville.edu). Inquiries may also be directed to the United States Department of Education's Office for Civil Rights, 32 Old Slip 26th floor, New York, NY 10005-2500; (646) 428-3800; e-mail [OCR.NewYork@ed.gov](mailto:OCR.NewYork@ed.gov).

## Harassment

Harassment is one form of unlawful discrimination on the basis of the above protected categories.

Sexual harassment can include unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal, or physical conduct of a sexual nature. Sexual harassment of a student denies or limits, on the basis of sex, the student's ability to participate in or to receive benefits, services, or opportunities in the educational institution's program.

Harassment based on race, color, age, religion, national origin, disability, sexual orientation or other protected characteristics is oral, written, graphic or physical conduct relating to an individual's protected characteristics that is sufficiently severe, pervasive, or persistent so as to interfere with or limit the ability of an individual to participate in or benefit from the educational institution's programs or activities.

Any complaints of discrimination or harassment should be directed to: Sarah Steele, Director of Human Resources and Title IX Coordinator, located in the Human Resources Office, 3rd floor, Brooks Hall, SUNY Morrisville,

Morrisville, N.Y. 13408, 315-684-6829, [steelsg@morrisville.edu](mailto:steelsg@morrisville.edu). Additional Title IX contacts include: Geoffrey Isabelle, Dean of Students, 115 Heylar Hall, SUNY Morrisville, Morrisville, N.Y., 315-684-6070, [isabelle@morrisville.edu](mailto:isabelle@morrisville.edu); Executive Director of the Norwich Campus, Room 203 of Roger W. Follett Hall, 20 Conkey Avenue, Norwich, N.Y. 13815, 607-334-5144; and Timothy Penix, Vice President of the Syracuse Educational Opportunity Center, 100 New Street, Syracuse, NY 13202, 315-472-0130, [penixtc@morrisville.edu](mailto:penixtc@morrisville.edu).

## Complaint Procedure

In its continuing effort to seek equity in education and employment and in support of federal and state anti-discrimination legislation, including but not limited to Title IX of the Educational Amendments of 1972, SUNY Morrisville has adopted the SUNY complaint procedure for the review of allegations of unlawful discrimination or harassment. This procedure provides a mechanism through which the university may identify, respond to and prevent incidents of illegal discrimination or harassment.

The complaint procedure can be found on the college website at <http://www.morrisville.edu/hr/aa-eco.aspx> or may be obtained from Marquis Bennett, Title IX Coordinator, Butcher Library, 315-684-6075, email: [bennetml@morrisville.edu](mailto:bennetml@morrisville.edu).

## Americans with Disabilities Act (ADA)

The Americans with Disabilities Act is a federal law which prohibits discrimination against individuals with disabilities in their access to the facilities, goods and services of most public places, including educational institutions. SUNY Morrisville has made a college-wide effort to assure that equal educational and employment opportunity is offered to people with physical and/or learning disabilities. ADA compliance activities are the responsibility of the disability specialist, 315-684-6349.

## SUNY Morrisville Institute for Advanced & Applied Technology

The Environmental Training Center (ETC) offers a broad spectrum of courses and consulting services addressing various aspects of environmental technology. The ETC provides the highest quality training and curriculum possible with an emphasis on individual need. Programs are offered on-campus and at work sites.

The Wood Products Technology Training Center at SUNY Morrisville is one of few colleges in the U.S. offering training and education in the field of wood products technology. The college is well respected for its expertise in this area, offering training programs to companies and agencies throughout the world. The knowledgeable faculty and extensive on-campus laboratory facilities provide students with quality, hands-on training. In addition to numerous course offerings, the center will custom-design programs to address the individual needs of clients.

## Consumer Complaint Process

The Higher Education Act of 1965, as amended, provides that a student, faculty member, or any other person who believes he or she has been aggrieved by an institution of higher education has the right to file a written complaint. In New York state, a complaint may be filed by any person with reason to believe that an institution has acted contrary to its published standards or that the conditions at the institution appear to jeopardize the quality of the institution's instructional programs or the general welfare of its students. Any person who believes he or she has been aggrieved by an institution on or after May 4, 1994 may file a written complaint with the Department of Education within three years of the alleged incident.

To file a complaint, the individual must first try to resolve the complaint directly with the institution. This shall be done by going directly to the person(s) against whom the complaint is filed.

If the individual does not get satisfaction from this, the complaint must be forwarded in writing to the Provost at SUNY Morrisville. The Provost will convene the grievance board to review and hear the complaint and render the decision.

The decision of the grievance board is final and there is no further local appeal. If, however, the person is unable to resolve the complaint to his/her satisfaction, he/she may send a letter or telephone the Postsecondary Complaint Registry to request a complaint form to be sent to the State Education Department. Telephone: 212-951-6493 or write to: New York State Education Department, Postsecondary Complaint Registry, One Park Avenue, 6th Floor, New York, N.Y. 10016.

If the complaint is an academic grievance, the student is referred to the Academic Grievance Procedure in the SUNY Morrisville *Student Handbook*.

## Immunization Requirements

All full- and part-time college students must be properly immunized for measles, mumps and rubella or they may not register for classes. The immunization record must be properly completed and returned to the Student Health Center. This requirement is dictated by New York State Public Health Law which states that any person born on or after January 1, 1957 who is registered to attend or attends classes at an institution, whether a full-time or part-time student (taking at least six semester hours), must show proof of two doses of live measles vaccine, one dose of live mumps vaccine and one dose of rubella vaccine, with the first dose of each administered on or after the first birthday. A blood test showing immunity to all three is also acceptable. Students will not be permitted to register without proof of proper immunization.

Many health care organizations require students practicing in their agencies to receive the Hepatitis B vaccination or sign a declination statement as a condition of practicing in the facility. The Hepatitis B vaccination is a safe and effective method of preventing Hepatitis B infection. Questions about this vaccination requirement should be directed to: Matthias Student Health Center, SUNY Morrisville, Morrisville, N.Y. 13408, 315-684-6078.

By law, students are required to provide the Student Health Center with proof of Meningitis immunization or sign a waiver stating their intention to receive or decline the vaccine. Students must contact the Student Health Center to meet this requirement.

## Physical Examinations

In order to utilize the services of the Student Health Center, students must submit proof of having had a physical examination not more than one year prior to the start of their first semester. Those who fail to submit such proof will be allowed one courtesy visit. Students who participate in any one of the NCAA-certified sports must have passed a physical examination prior to the first practice of each collegiate year in which they compete. Certain courses require students to submit a physical to the Student Health Center prior to participation. Contact your school office to determine if any of your courses have such a requirement.

## Security Information Available

SUNY Morrisville is committed to assisting all members of its community in providing for their own safety and security. By October 1 of each year, SUNY Morrisville is required to publish and distribute an annual campus security report to all current and prospective students and employees. The annual security compliance document at SUNY Morrisville is called the Annual Security Report. The report contains information on campus security and personal safety, including crime prevention, NYS University Police law-enforcement authority, crime reporting policies, disciplinary procedures and other important matters about security on campus. It also contains statistics for the three previous calendar years on reported crimes that occurred on campus, in certain off-campus buildings or property owned or controlled by SUNY Morrisville and on public property within or immediately adjacent to and accessible from the campus. If you wish to receive a hard copy of the Annual Security Report, please contact the Dean of Students Office at SUNY Morrisville, located in Helyar Hall, Morrisville, N.Y. 13408. If you would like to request that a copy be mailed to you, please call 684-6070. You may review the statistics contained in the Annual Security Report by accessing the U.S. Department of Education statistics at <http://ope.ed.gov/security>. This information is required by law and is provided by the NYS University Police Department at SUNY Morrisville.

# Admission Information

## College Policy

The college considers applicants without reference to race, color, religion, national origin, sex, age, handicap, sexual orientation, marital or parental status. The credentials of each applicant are evaluated on an individual basis and admission is granted to those who have the potential for success in the curriculum of their choice.

SUNY Morrisville does not offer an open enrollment admission policy. Students are admitted to specific curricula rather than to a general program.

Although an interview is not required for admission to the college, students are encouraged to visit the campus during the admission process, meet with program faculty members, and discuss admission and enrollment procedures directly with an Admissions Advisor.

Admission is offered on a space available basis. All of the information provided is reviewed holistically to make the best decision possible for both the applicant and the college. Some programs may attain full enrollment and close throughout the year. A student may be offered admission to an alternate major when the desired major is full or if the Admissions Committee deems that enhanced academic credentials are required for the requested major.

## How to Apply

### Freshman Applicants

- Freshman applicants must submit the SUNY or Common application. The supplemental application, including essay, is also required.
- Freshman must submit official high school transcripts. High school students taking AP, IB, or college level coursework must provide appropriate scores/transcripts. Your full name must appear on all materials sent to the Admissions Office. If your transcripts have a different name than the one you used on your application (i.e. maiden name), please notify the Admissions Office.
- If you will be attending the Norwich Campus, indicate “NORW” under “special campus project” on the “my campus selections” page of the SUNY online application.
- SAT/ACT scores are optional for students applying into an associate degree program, but required for students applying into a bachelors program.
- A minimum of one letter of recommendation is encouraged. Appropriate references include former teachers or school officials, employers, and leaders of organizations.

Candidates are evaluated for admission on a rolling basis. Notification of acceptance is also conducted on a continuous basis. Students applying for admission as freshmen are encouraged to apply as early as possible during their senior year of high school.

Students who have an interest in SUNY Morrisville are encouraged to schedule an appointment to visit the campus. Visits can be arranged online at <http://www.morrisville.edu/visit> or by contacting the Admissions Office at 315-684-6046.

### Transfer Applicants

Applicants who have earned college level credit after high school graduation or equivalency will be assigned transfer applicant status. Students who wish to transfer to SUNY Morrisville from another college or university should follow these guidelines:

Required materials when applying as a transfer student:

- Transfer applicants have the option to submit the SUNY or Common Application.
- Transfer applicants are required to submit all official college transcripts to the Admissions Office for evaluation.
- An official high school transcript is required for students who have earned less than 30 college credits after high school graduation.
- A personal essay is required for applicants with under a 2.0 cumulative GPA, or if there is a time gap in education.
- Nursing A.A.S. applicants are required to have a 2.75 cumulative GPA and a TEAS exam score of 58.7 or higher. Additional prerequisite course may also be required.

Recommended materials when applying as a transfer student:

- One letter of recommendation. Appropriate references include current teachers/professors or school officials, employers, and organizations.
- Personal Essay. The personal essay should address the following: explain how admission to the degree program you have selected, will help you meet your life goals and describe the knowledge, skills, abilities, and/or experiences that will make you successful in your chosen degree path.
- If you will be attending the Norwich Campus, indicate “NORW” under “special campus project” on the “my campus selections” page of the SUNY online application.
- Candidates who are interested in enrolling in the Educational Opportunity Program (EOP) must have transferred from an equivalent EOP, HEOP or SEEK program.

Candidates are evaluated for admission on a rolling basis. Transfer applicants are encouraged to apply as early as possible. Notification of acceptance is also conducted on a continuous basis.

Students who have an interest in SUNY Morrisville are encouraged to schedule an appointment to visit the campus. Visits can be arranged online at [www.morrisville.edu/visit](http://www.morrisville.edu/visit) or by contacting the Admissions Office at 315-684-6046.

## Previous College Coursework

In general, transfer credit is granted when courses are applicable to the curriculum for which the student is applying, and the course was taken by the student within the past seven (7) years. Transfer credit will not be included in the student's SUNY Morrisville grade point average, but may change the GPA if the course is substituted for a Morrisville course. Transfer credit will not contribute toward a student's residency requirement.

SUNY Morrisville also has a variety of articulation agreements with area community colleges, many of which guarantee enrollment at Morrisville with full junior status. For a complete list of community college articulations please see the articulation agreement section of this catalog.

## Two-Plus-Two Transfer Program

Many students, both with and without an associate degree, choose to attend SUNY Morrisville to complete a bachelor degree. A qualified student may enroll in one of the Morrisville associate degree programs and then seamlessly finish in a related bachelor degree program if all of the



appropriate prerequisites are met for the corresponding bachelor degree program.

## Readmission/Reinstatement

Students who have been away from SUNY Morrisville for at least one semester and not more than seven years, may apply for readmission through the SUNY Morrisville Application for Readmission process. The Application for Readmission is available for download from the College website. A reapplication processing fee of \$25.00 is required with submission of your application.

To be considered for readmission, please complete and submit the following items to the Admissions Office:

- A Readmission Application, available for download from the college website.
- A letter describing your activities since you last attended Morrisville.
- Transcripts from any other colleges attended since attending Morrisville.

Several campus offices will be contacted to provide additional information regarding a possible return to SUNY Morrisville. Previous financial obligations to the college must be satisfied, and previous academic or disciplinary conditions must be met before readmission will be considered.

A student who has lost matriculation as a result of academic dismissal must complete six credit hours (together or in sequence) at another institution, with minimum grades of C or better in each course, to regain admission.

**NOTE:** Readmission/reinstatement to matriculated status does not automatically reinstate eligibility for financial aid. Students must also meet New York state academic standing requirements and the standards of satisfactory progress for federal aid. Any questions regarding these policies should be directed to the Financial Aid Office.

Students who have been separated from the college for greater than seven (7) years, need to reapply through the SUNY or Common Application also available through the College website. Students who were enrolled in the previous semester may be considered for reinstatement by contacting their school office directly. Providing readmission information to the college does not guarantee readmission.

Students reapplying from Madison and Chenango County will be given special consideration for the required courses taken after separation from SUNY Morrisville. Contact the Office of Admissions at 315-684-6046 for more information.

## A.O.E Educational Opportunity Program (EOP)

The Educational Opportunity Program (EOP) is a coordination of supportive services designed to provide access to higher education for qualified New York state residents. The EOP takes the quintessential approach to fulfilling SUNY's policy that every student capable of completing a program of higher education shall have the opportunity to do so. Guided by this precept, the EOP provides academic and financial support to New York state residents with a high school diploma or its equivalent who show promise for mastering college-level work, but may otherwise not be admitted. The program, which is designed to provide students with a two- or four-year college education, serves students from a variety of circumstances that may present barriers to academic success.

The program is designed primarily to serve full-time students who are United States citizens or eligible non-citizens, residents of New York State, and who are both educationally and economically disadvantaged. "Educationally disadvantaged" is defined as a student who lacks regular qualifications for admission to the program of their choice. "Economically disadvantaged" is determined by family income and size of family, according to criteria issued by the State Education Department.

## Persons applying for EOP should:

- File a SUNY or Common application (see previous section on how to apply). Applications may be obtained at high school guidance offices, Educational Opportunity Centers (EOC), Talent Search Programs, or Upward Bound Programs.
- File a Free Application for Federal Student Aid (FAFSA).
- To document household composition and income, the SUNY EOP Supplemental Application with supporting documentation is required. The application is available for download through the SUNY Application Processing Center or on the Morrisville website.

Financial aid to an EOP student is based on need. Students must apply for the Tuition Assistance Program (TAP) and file a Free Application for Federal Student Aid (FAFSA).

A mandatory summer program is required for all new E.O.P. Applicants desiring admission to the fall semester.

A student who wishes to transfer to SUNY Morrisville as an EOP student must have been enrolled in an EOP, HEOP, or SEEK program at the initial college of attendance if available. The Educational Opportunity Program Office is located in the Butcher Library, 315-684-6075. EOP is available to students at the Morrisville campus only.

## Deposit Policy

SUNY Morrisville accepts students on a rolling admission basis. For students notified of acceptance to the fall semester prior to April 1, a \$100.00 tuition deposit is required no later than May 1 to secure a place in the chosen major. If notification of acceptance is given after April 1, the deposit is required within 30 days of acceptance. Please note, however, that space in some majors is limited, and student tuition deposits are accepted on a first come-first served basis. Enrollment priority will be given in the order the tuition deposit is received, and some programs may require an earlier deposit to guarantee program enrollment.

Nursing applicants: Please note that, in addition to a tuition deposit, applicants must meet the minimum TEAS score to secure their enrollment.

For students notified of acceptance to the spring semester prior to October 1, the deposit is due no later than November 1. If notification of acceptance is given after October 1, the tuition deposit is due within 30 days of notification.

For students wishing to live on campus at SUNY Morrisville, an additional \$100.00 housing down payment is required. This housing down payment guarantees a space in the residence hall. The same date for submission of tuition deposits applies to the housing down payment.

In all cases, tuition deposits and housing down payments will be credited directly to the student's account. Tuition deposits (\$100.00) will be credited toward the cost of tuition, and housing down payments (\$100.00) will be credited to residence hall charges. Should you decide not to attend SUNY Morrisville, all deposits are fully refundable until May 1 by notifying the Admissions Office in writing and requesting a refund. For students admitted to the fall semester after May 1 or the spring semester after October 1, written requests for refunds will be honored within 30 days of the original acceptance date. For questions about deposits, contact either the Admissions or Business Office.

## Interviews & Campus Tours

Interviews and campus tours are not required but are strongly encouraged. Campus tours are conducted daily on weekdays and select Saturdays. Visits can be arranged online at <http://www.morrisville.edu/admissions/visit.aspx> or by calling the Admissions Office at 315-684-6046. It is best to



visit when the college is in session to take advantage of the opportunity to meet individually with a faculty member. However, tours and Admissions Advisors are available by appointment during college breaks and on select Saturdays throughout the school year for your added convenience.

### January Admission

Certain curricula will accept January admissions, depending on available classroom and laboratory space. Some programs will require additional time to complete graduation requirements due to the sequencing of courses. For information on January admission, contact the Admission Office to be sure that openings are available in a particular program in January and to determine your anticipated completion date.

### Matriculation Policy

A student who has successfully satisfied all admission requirements, is officially accepted into a degree program, and registers for 12 or more credit hours is a full-time, matriculated student. A student who has filed an application, successfully satisfied all admission requirements and is accepted into a degree program and registers for 11 or fewer credit hours is a part-time, matriculated student. Students should contact the Admissions

Office for additional information and instructions.

Continuing matriculated students who want to change their status from fulltime to part-time or from part-time to fulltime should do so through their school office.

All part-time non-matriculated students who have successfully completed 21 credits must file their intent toward completion of a degree with the

Admissions Office. Those indicating they are not interested in studying for a degree cannot graduate from the College. The State University application process must be completed before a student can graduate.

### Part-Time Students

Part-time students looking to matriculate should contact the Admissions Office for application procedures. Courses will be arranged through the appropriate school office. Part-time, non-matriculated students should arrange their coursework through the Center for Lifelong Learning located in the Registrar's Office.

### Advanced Placement

Students who have completed Advanced Placement coursework and have taken an AP examination must submit an official score report for credit to be granted. The table below offers the minimum score requirements for credit, but is not an exhaustive list. If other AP coursework has been completed, please contact the Admissions Office directly with your score report.

Exam Title	Min Score required	Number of credits	Equivalent Course
<b>Arts</b>			
AP Art History	3	3	ART Elective
AP Music Theory	3	3	MUSI Elective
AP Studio Art: 2-D Design	3	3	ART Elective
AP Studio Art: 3-D Design	3	3	ART Elective
AP Studio Art: Drawing	3	3	ART Elective
<b>English</b>			
AP English Language and Composition	3	3	COMP 101
AP English Literature and Composition	3	3	COMP 102
<b>History &amp; Social Science</b>			
AP Comparative Government and Politics	3	3	POLI 999
AP European History	3	3	HIST 161
	4	6	HIST 161, HIST162
AP Human Geography	3	3	GEOG 101
AP Macroeconomics	3	3	ECON 100
AP Microeconomics	3	3	ECON 140
AP Psychology	3	3	PSYC 101
AP United States Government and Politics	3	3	POLI 101
AP United States History	3	6	HIST 101, HIST 102
AP World History	3	3	HIST 151
AP World History	4	6	HIST 151, HIST 152

AP Calculus AB	3	3	MATH 151
	4	4	MATH 161
AP Calculus BC	3	4	MATH 161
	4	7	MATH 161, MATH 152
	5	8	MATH 161, MATH 162
AP Computer Science A	3	4	COSC 111, COSC 111 L
AP Statistics	3	3	MATH 141
AP Biology	3	8	BIOL 120, BIOL 121
AP Chemistry	3	3	CHEM 121
		1	and CHEM 121L
		3	and CHEM 122
		1	and CHEM 122L
AP Physics B	not exist	any more	
AP Physics I	3	4	PHYS 127
AP Physics II	3	4	PHYS 128
AP Physics C: Electricity and Magnetism	3	4	PHYS 128
	4	4	PHYS 158
AP Physics C: Mechanics	3	4	PHYS 157
AP Chinese Language and Culture	3	6	LANG Elective
AP French Language and Culture	3	6	LANG Elective
AP German Language and Culture	3	6	LANG Elective
AP Italian Language and Culture	3	6	LANG Elective
AP Japanese Language and Culture	3	6	LANG Elective
AP Latin	3	6	LANG Elective
AP Spanish Language and Culture	3	6	SPAN 101, 102
AP Spanish Literature and Culture	3	3	LANG Elective

### Credit by Examination

Credit by examination may be granted for satisfactory grades obtained on recognized standardized tests such as those offered under the College Level Examination Program (CLEP) or the Excelsior College Examination. Credits are determined by the appropriate academic area on a case-by-case basis. All scores must be submitted to the admissions office for review.

### Concurrent Admissions Program

The Concurrent Admissions Program (CONAP) is conducted by colleges and universities that are members of the Service Members Opportunity

Colleges. Concurrent with their enlistment in the Army, new soldiers are encouraged to apply for admission to SUNY Morrisville.

Upon meeting satisfactory criteria for full or provisional admission, the soldier will be allowed to defer admission until completion of military service.

After completing a two-, three-, or four-year enlistment, the new veteran will be encouraged to enroll at SUNY Morrisville. This program also

applies to soldiers enlisting in the Army Reserve. Those interested in the CONAP program are encouraged to contact the Admissions Office.

### Special Admissions Consideration

In 1998, SUNY applications began asking each applicant to answer questions regarding dismissal from college for disciplinary reasons. In compliance with SUNY policy and section 753 of the State of New York Corrections Law, any applicant answering "yes" is required to provide further information to the Admissions Committee for admission consideration. The information will be reviewed by a campus committee. The applicant may be requested to appear, and a decision to admit, deny admission, or admit with conditions will be made.

SUNY Morrisville is authorized under federal law to enroll international students. International students should contact the Admissions Office for information on specific requirements as early as possible during the application process to ensure adequate time to complete the necessary documentation prior to the desired semester. In addition, it is highly recommended, and in some cases required, that a student complete an official educational credential evaluation through World Education Services

(WES) or Educational Credential Evaluators (ECE). This evaluation is completed at the student's own expense, and does not guarantee admission to SUNY Morrisville. Contact the Admissions Office, 315-684-6046, with any questions.

SUNY Morrisville does not consider an Individualized Education Program (IEP) diploma to be the equivalent of a high school diploma; therefore, the IEP diploma cannot be used for acceptance to the College. The Admissions Office suggests that individuals with an IEP diploma do one of the following: remain in high school to obtain a regular diploma or obtain a General Equivalency Diploma (GED/TASC). A minimum score of 2250 must be achieved on the GED or equivalent TASC in order to be considered for admission. Contact the Admissions Office, 315-684-6046, with any questions.

In all cases, students who do not matriculate must meet the minimum prerequisites for any course(s) in which they wish to enroll.

### Reserve Officer Training Corps (ROTC)

The Reserve Officer Training Corps programs of the United States Army and Air Force are available to SUNY Morrisville students. Both programs are designed to produce junior officers (second lieutenants) for their respective service. Programs of study vary from one to four years in length, all leading to a commission. Both programs also provide generous scholarship opportunities to finance undergraduate or graduate degrees.

#### Air Force

Air Force Reserve Officer Training Corps (AFROTC) is a nationwide program that allows students to pursue commissions (become officers) in the United States Air Force (USAF) while simultaneously attending college. AFROTC classes are held on college campuses throughout the United States and Puerto Rico; students can register through normal course registration processes. AFROTC consists of four years of Aerospace Studies classes (Foundations of the USAF, Evolution of USAF and Space Power, Air Force Leadership Studies, and National Security Affairs/Preparation for Active Duty), and a corresponding Leadership Laboratory for each year (where students apply leadership skills, demonstrate command and effective communication, develop physical fitness, and practice military customs and courtesies). College students enrolled in the AFROTC program (known as "cadets") who successfully complete both AFROTC training and college degree requirements will graduate and simultaneously commission as Second Lieutenants in the Active Duty Air Force.

The AFROTC program is currently offered at Syracuse University, but they have a crosstown agreement that allows our students to enroll in AFROTC and become full-fledged cadet participants. For more information on AFROTC course descriptions, please review [http://coursecatalog.syr.edu/2013/programs/reserve\\_officer\\_training\\_corps\\_rotc](http://coursecatalog.syr.edu/2013/programs/reserve_officer_training_corps_rotc). For more information on the AFROTC program, please review <http://afrotc.syr.edu/>.

#### Courses at SU:

Students in the Air Force ROTC program enroll in an aerospace studies (ASC) course each semester. ASC 205/PAF 275 and ASC 206/PAF 276 are taken during the first year and ASC/HST 295 and ASC/HST 296 are taken during the sophomore year. These courses comprise the general military course and meet one hour a week. During the junior year, students enroll in ASC 305/O&M 405 and ASC 306/O&M 406. During the senior year, they enroll in ASC 405/PAF 475 and ASC 406/O&M 476. These courses comprise the professional officer course, and each meets for three hours a week.

Morrisville State students are eligible to participate in Army ROTC through Syracuse University program at any of the following sites: Syracuse University, Colgate University, or Utica College. Syracuse University Army ROTC can provide transportation assistance when required.

Army ROTC emphasizes the development of leadership, problem solving and communication skills; the duties and responsibilities of leaders; the understanding of the fundamental concepts and principles of military art and science. Each Cadet develops a strong sense of personal courage, integrity, responsibility, duty, honor, and the requirements for national security.

Freshman MSL 101, 102 and sophomore 201, 202 students are initially enrolled in the basic course. Each class provides the student with coursework in leadership, problem solving and intra personal communication skills. Additionally, each student starts to develop physical fitness, first aid, and orienteering skills. The basic course does not obligate students to any military service and only requires two to three hours a week.

After successful completion of basic-course requirements, students can enroll in advanced ROTC, which requires five to six hours a week. In the junior year, MSL 301, 302 Cadets' continue to build on the skills learned during the basic course with advanced leadership studies. Junior students also take a more active leadership role within the ROTC unit. These experiences prepare Cadets' for the Leadership Development Assessment Course, which takes place at Fort Lewis, Washington, the summer between the junior and senior year. Senior students 401, 402 continue to study military leadership and management, while taking complete leadership responsibility for the Cadet organization.

All Military Science students participate in a two-hour leadership laboratory each week. The Leadership Lab is a student planned and directed opportunity to develop the skills learned in the classroom. The lab period emphasizes leadership, communication, and problem solving using basic military subjects. Field training exercises are held once each semester. They introduce a wide range of military skills and stress practical application. Rappelling, land navigation, basic tactics, and rifle marksmanship are some of the topics taught at a number of sites in Central New York and Pennsylvania.

Interested students should contact 315-443-8233 or email: [armyrotc@syr.edu](mailto:armyrotc@syr.edu)

#### Army Reserve Officer Training Corps

*Lieutenant Colonel Susan L. Hardwick*  
Professor of Military Science, Syracuse University  
308 Archbold North, 315-443-2462

**MSL 101/MSL 102/MSL 201/MSL 202:** Basic Leadership Organization and mission of the US Army and Department of Defense, oral and written communication skills, time management, logic and reasoning, basic leadership theory.

**MSL 301/MSL 302/MSL 401/MSL 402:** Advanced Leadership, Advanced Leadership and management theory, mentoring and evaluation skills training, planning, staff operations, organizational leadership.

#### Additional Information

For information concerning part-time students, January admissions, credit-by-examination, transfer students, joint admissions, articulation agreements, or any other programs, please feel free to contact the College.

#### Admission Office

SUNY Morrisville  
P.O. Box 901  
Morrisville, NY 13408

Phone: 315-684-6046  
FAX: 315-684-6427

Visit our website at: [www.morrisville.edu](http://www.morrisville.edu)

E-mail us at: [admissions@morrisville.edu](mailto:admissions@morrisville.edu)

# The Norwich Campus

Director, Lindsey Lefevre  
607-334-5144, lefevrlg@morrisville.edu  
Roger W. Follett Hall  
20 Conkey Avenue, Norwich, New York 13815-1752  
www.morrisville.edu/norwich

## General Information

The SUNY Morrisville Norwich Campus has been serving the City of Norwich and surrounding area of Chenango County since 1969. Since 2005, Follett Hall located on Conkey Avenue has been the center of teaching and learning offering students associate degree options such as Criminal Justice, Human Services, Early Childhood, Business Administration and Nursing. These degree options lead to transfer or job placement. The campus is used by businesses, not-for-profits and community partners for training, events and videoconferencing. SUNY Morrisville faculty and staff are experienced and student-centered.

The campus offers the Morrisville EDge program to high school students to get an early start to their college career by earning college credits, taking college success courses and integrating into the campus community.

Matriculated students in a major taking six or more credits at the Norwich Campus can get a free fitness center membership in the local Norwich area during the fall and spring semesters.

So start smart, stay local and create your future as a SUNY Morrisville Norwich Campus student.

## Programs & Services

The Norwich Campus offers associate degree programs, continuing/community education, and customized courses to meet the education and training needs of south-central New York. Courses are available for both full- and part-time study during the college's regularly scheduled terms (fall, winter, spring, and summer). Some special programs or customized courses may vary from the regularly scheduled college terms.

Students enrolled at the Norwich Campus are subject to the rules and regulations of the college as outlined in this Catalog and in the Student Handbook. Procedures specific to the Norwich Campus may be found in this section or in specially published materials distributed at scheduled Admissions events.

Students wishing to study at this Norwich Campus may earn an associate degree in majors offered entirely at the campus. Students may also choose to begin their studies at Norwich and transfer to the Morrisville Campus for one of the bachelor or associate degree programs offered in the school of Agriculture, Sustainability, Business, and Entrepreneurship, General Studies, Liberal Arts, or Science, Technology and Health.

The following associate degree programs are available in their entirety at the Norwich Campus (for full program descriptions, please refer to the relevant sections of the catalog).

- Accounting
- Business Administration
- Criminal Justice
- Early Childhood
- Human Services

- Individual Studies
- Liberal Arts and Sciences (Humanities and Social Sciences)
- Nursing
- Office Administration

As a commuter campus, approximately one-half of all Norwich Campus students are enrolled part-time. Students considering a reduced load (less than 15-18 credits per semester) should be aware that they will not be able to complete their associate degree in two years unless they earn 30-32 credits per year. Students taking a reduced load still may be able to graduate in two years through a combination of careful advisement/course selection, and by taking advantage of the college's summer and winter terms.

Students who register for 12 credits or less per semester can expect to take as much as three years or more to complete the requirements for an associate degree. Additionally, students taking courses toward main campus programs should be aware that doing so may place them "out of sequence" thereby making it difficult or impossible to complete their program in the usual two years for an associate degree or four years for a bachelor degree.

## Course Registration

All students, whether full-time or part-time, must schedule (select courses) and register (arrange payment) EACH SEMESTER for the course(s) they wish to take during the upcoming term.

## Admission Requirements

Applications and admission inquiries are processed by the Norwich Campus. When applying, applicants are asked to fill out the special campus code "NORW" to indicate attendance at the Norwich Campus and call 607-334-5144 to check on the status of your application. Please refer to the relevant section of this catalog for more information concerning admission procedures. All those seeking to matriculate (earn a degree) and those applying for financial aid must apply for college admission.

## Academic Advising

SUNY Morrisville and the Norwich Campus seek to provide a challenging and supportive educational environment that encourages student success. Toward that end, each Norwich Campus student is assigned a professional academic advisor. This academic advisor - along with other staff and faculty - is available to students to discuss educational and career goals, answer questions, assist in schedule and degree planning, and otherwise provide support and helpful information throughout students' academic careers.

All Norwich Campus students are asked to meet with their academic advisor at least once each term. Students who are in academic jeopardy may be required to meet with their academic advisor or other staff members more frequently to assist them in improving their academic standing. Although faculty and staff are readily available and eager to assist, appointments are recommended.

## Academic Support

Academic support is provided to all Norwich Campus students free of charge. Tutoring occurs at the Academic Enrichment Center located in Room 140 of Roger W. Follett Hall. Tutoring is available in most subject areas, and occurs one-on-one or in small groups. Both peer and professional tutors are available to assist students by appointment and on a walk-in-basis. In addition to tutoring, Academic Support staff also offer handouts and conduct workshops on topics such as study skills, taking notes, time management, and test-taking strategies.

Computers are available in the Academic Enrichment Center, areas of the Library and the Computer Lab-Room 225. These computers are made available for student use to send/retrieve e-mails and Internet research, as well as for word processing, and for completing out-of-class assignments.

Norwich Campus students are encouraged to take full advantage of all Norwich and Morrisville campus services including the libraries, Academic Center, health and counseling services, student activities, athletics, and more. Further information about these services is available during Admission or Orientation events, on flyers/bulletin boards; Atrium monitors and from campus staff and faculty.

## Students with Disabilities

Students with Disabilities is located in the Butcher Library on the 2nd floor. The Norwich Campus Office for Students with Disabilities is located on the second floor of Roger W. Follett Hall, room 211. Any student who is attending the Norwich Campus should send all documentation to this location. All services for students with disabilities are coordinated through the Students with Disabilities office at Morrisville or at Norwich. Students with a documented disability who wish to utilize services and/or academic accommodations should contact the Coordinator for their respective campus before or at the start of each semester. David Symonds is the Coordinator and can be reached at 315-684-6349 or symondda@morrisville.edu. Patricia Davis is the Coordinator for the Norwich Campus and can be reached at 607-334-5144 or davispm@morrisville.edu.

## Faculty

Norwich Campus faculty members consist of the college's regular full-time academic staff and qualified adjunct (part-time) faculty.

## Identification Cards

Norwich Campus students, faculty, and staff will be issued ID cards. ID cards provide access to library, laptop, fitness centers and other services. ID cards must be carried whenever a student is on campus. Refusal or inability to show college ID when requested may result in campus disciplinary action.

## Internships

Participation in a quality, career-related or exploratory field experience can greatly enrich classroom learning and better prepare students for success in the workplace. Accordingly, Norwich Campus students are strongly encouraged to participate in an internship if applicable within their major. An academic advisor is available to talk with students about possible internship experiences and can help develop internship opportunities with area businesses and community service agencies. Various internship options are available to meet student interests and scheduling needs.

## Satellite Locations

In an effort to make SUNY Morrisville courses and programs available throughout Central New York, the college works with area school districts, employers, and municipalities to offer quality educational opportunities at satellite locations based on a careful assessment of needs. To ensure academic quality, all classes follow SUNY Morrisville and relevant school/department policies.

Tuition and fees are due and payable prior to the first class meeting. In addition, if students are participating in a satellite program in cooperation with their high school and they have not yet graduated from high school, **NO FINANCIAL AID IS AVAILABLE.** For more information regarding specific course offerings and schedules, students should contact their high school guidance office or the Admission's Office

## Student Government/Student Activities

The Norwich Campus offers a wide range of student activities such as movie nights, area activities, and student trips each semester. The Norwich Campus Student Government Organization (SGO) works with

faculty/staff advisors and the general student population to plan social, educational, cultural, and recreational events that benefit the Campus and the wider community. Events sponsored by SGO are supported by the student activity fee charged to all students.

All students are encouraged to participate in SGO and to assume a campus leadership role by becoming involved in the student governance and planning process. Students can also take part in groups organized by major and interest (including criminal justice, early childhood, human services, and student veterans.) Students and faculty are likewise encouraged to propose new ideas for clubs, organizations, and activities that might further enhance the campus experience for everyone.

## Co-curricular Transcript

Students participating in worthwhile campus or off-campus activities may complete a Co-curricular Transcript (CCT) that can serve as a valuable supplement to the college transcript during the job search process. The Co-curricular Transcript is intended to provide each student with an official record of honors, awards and recognitions, leadership development, professional and educational development, student organizations and activities participation, service learning, intercollegiate athletics, peer advising and peer tutoring.

## Transfer Credit

Transfer of credit from another college or university will be determined through a course-by-course evaluation. Students are responsible for 1) requesting official transcripts (and course descriptions/syllabi as necessary) to be sent to the Norwich Campus from their prior schools and 2) requesting an official transfer credit evaluation at the Norwich Campus. Transfer credits shall not be computed in the Morrisville grade point average.

## Withdrawal from College

A student who wishes to withdraw must notify the Norwich Campus in writing, clearly stating the reason. The effective date of withdrawal for determination of tuition refund (if any) will be the date such notice is received. Students who drop or withdraw from all or some of their courses, and who have paid in full, are given refunds for tuition only (does not include State University fee or activity fee), in accordance with the schedule established by the college and printed below:

<u>Withdrawal during</u>	<u>Refund</u>
First week.....	100%
Second week.....	70%
Third week.....	50%
Fourth week .....	30%
Fifth week .....	0%

Formal withdrawal remains important even after the tuition refund period has ended (5th week and later), so that the student's transcript can reflect withdrawal (W) rather than a failing grade (F). Refunds given according to the above schedule will be sent to the student directly from Albany, in approximately 6-8 weeks. Students with a balance due are expected to pay the remainder upon withdrawal. Students who stop attending classes and do not notify the Norwich Office will receive a **FAILING GRADE AND WILL BE LIABLE FOR ANY TUITION BALANCE.**



## Refunds for Dropped Courses/Withdrawal from College

Refunds are only given during official drop and withdrawal period. If you must drop a class, **contact the Norwich Campus office.**

## Matriculation

Students seeking financial aid (TAP/PELL/APTS/LOANS) and students seeking veteran's benefits must be matriculated. Specifically, they must file a State University of New York application for admission to the college and be formally accepted by Admissions as a degree candidate in a program of study. Also, part-time students who intend to earn a degree or who have completed the equivalent of one semester of full-time study (12 credits) should matriculate.

Application details and additional required information are available on the Morrisville website and can be located with the following link: <http://www.morrisville.edu/admissions/apply.aspx>

Those students who expect financial aid in any form and have not matriculated will be liable for the total tuition cost. Non-matriculated students are not eligible for financial assistance. For more information on matriculation, or to determine your matriculation status, call the Admissions Office at 1-800-258-0111.

## Payment of Tuition/Fees

Tuition for each semester is due and payable upon receipt of bill. All State University and activity fees must be paid before the term begins. An extension for payment may be granted for extenuating circumstances.

## Financial Aid

Refer to the financial aid sections of this catalog.

## Employee Benefits

Ask your employer if there is a tuition payment plan available where you work. Many companies pay full or partial tuition for college credit.

## Veterans' Benefits

For information on Veterans' Benefits, please contact the Registrar's Office at 315-684-6066 on the Morrisville Campus.

## Scholarships

Norwich Campus students may be eligible for general Morrisville College scholarships or scholarships restricted to those attending the Norwich Campus. For more information, see the scholarship section of this catalog or contact the Norwich Campus Office.

## Registration

Please refer to the Academic Calendar and semester course fliers for specific information.

## Textbooks

Please refer to the Norwich Campus Bookstore and semester course fliers for further information on dates and hours books are sold.

## Used Books

The Norwich Campus Store has a limited supply of used books that are sold on a first come/first served basis. For details, call the Norwich Campus Store at 607-334-5144 ext. 5073.

## Laptop Curricula

SUNY Morrisville is widely recognized for its integration of technology into the lives of its students both in and out of the classroom to prepare graduates for the demands of the 21st Century workplace. Norwich Campus students who enroll in Accounting, Business Administration, Individual Studies and Office Administration programs are required to participate in these laptop curricula. Those not enrolled in the above-listed programs have the option to purchase a laptop. Technical support is available at the Norwich Campus.

## Liberty Partnerships Program (LPP)

Headquartered at the Norwich Campus and serving Chenango County Schools, The Liberty Partnerships Program is a cooperative 12-month program designed to inspire and empower middle and high school students to complete high school and seek college admission or advanced workforce-training opportunities.

Current partnership schools include Unadilla Valley Central School, Otselic Valley Central School, Bainbridge-Guilford Central School, and Norwich City Schools.

The program also helps to develop support systems and provides tools young people can use to become capable, contributing members of society.

Additionally, LPP offers support and guidance to parents whose children are LPP participants. In partnership with the schools and outside agencies, LPP provides tutoring, college and career exploration, in/out of classroom workshops, community service opportunities, leadership development, education and recreational field trips, and personal and academic advisement.

Programs include job shadowing, college exploration, and special workshops in drug and alcohol prevention, problem solving, communication, and leadership.

LPP is a grant-funded program sponsored by the New York State Education Department, Pre-Collegiate Preparation Programs Unit.

NOTES

# COLLEGE PLANNING

## Costs/Fees\*

	First Semester	Second Semester	Total
<b>Tuition</b>			
New York State Resident: 2-year/4-year	\$3,435	\$3,435	\$6,870
Out-of-State: 2-year/4-year	\$5,660/8,160	\$5,660/8,160	\$11,320/16,320
** Part-time, N.Y.S. residents--\$286 (2-year) per credit hour, \$286 (4-year)			
<b>** Part-time, out-of-state residents (inc. fee) \$472 per credit hour (2-year), \$680 (4-year)</b>			
<b>Fees</b>			
State University Fee	\$12.50	\$12.50	\$25.00
Student Activity Fee/Norwich Campus is \$30 per Semester, \$60 per year	\$105.00	\$105.00	\$210.00
Orientation (entering Morrisville students)	\$100.00		\$100.00
Orientation (entering Norwich students)	\$25.00		\$25.00
Student Athletic Fee	\$206.00	\$206.00	\$412.00
Health Insurance (if not otherwise covered; 12 months, inc. major medical)	\$987.54	\$987.54	\$1,975.08
Transportation Fee (Morrisville Campus only)	97.00	97.00	\$194.00
International Student Insurance	\$624.45	\$624.45	\$1,248.90
Alumni Fee	\$12.00	\$12.00	\$24.00
<b>Motor Vehicle Registration</b>			
Resident	\$90.00		\$90.00
Commuter	\$75.00		\$75.00
Graduation Fee (graduating seniors only)		\$25.00	\$25.00
Housing (double room rate)	\$3,900.00	\$3,900.00	\$7,800.00
Meals	\$2,875.00	\$2,875.00	\$5,750.00
Books and Supplies (estimated)	\$700.00	\$700.00	\$1,400.00
Dormitory Services	\$410.00	\$410.00	\$820.00
Career Services Fee	\$13.00	\$13.00	\$26.00
Health Service Fee	\$167.00	\$167.00	\$334.00
Fitness Fee (optional)	\$75.00	\$75.00	\$150.00
Technology Fee	\$193.00	\$193.00	\$386.00
Laptop Computer (varies depending on model)	\$550.00	\$550.00	\$1,100.00***

\* All costs are current as of 7/1/2018 and are subject to change.

\*\*Part-time fees assessed on a credit-hour basis.

\*\*\* Price per semester may vary based on laptop model and payment plan chosen by student.

### Broad Based Fees

SUNY Morrisville broad-based fees consist of the college fee, intercollegiate athletics fee, student activity fee, student health services fee, technology fee, and transportation fee. Broad-based fees are generally fees that are charged to all SUNY Morrisville students.

*The college fee is the state university fee which is assessed at a semester rate of \$.85 per credit hour or \$12.50 for a full time student. This fee is assessed to all students.*

The intercollegiate athletics fee is intended to increase stability in the funding of intercollegiate athletics. It covers supplies, equipment, transportation, and meals for the athletic teams. All students are allowed free admission to all games by presenting their college identification. The fee is assessed at a semester rate of \$17.00 per credit hour, or \$206.00 for a full-time student. The intercollegiate athletics fee is waived for all students who are doing an internship away from

campus, and all students who are 100% online.

The student activity fee is a fee voted on by the students of the college. It covers the cost of various student activities across campus. The student activity fee is assessed at a semester rate of \$9.00 per credit hour, or \$105.00 for full-time students on the Morrisville campus. The student activity fee is assessed at a semester rate of \$2.50 per credit hour, or \$30.00 for full time students on the Norwich campus. The student activity fee is waived for all students who are doing an internship away from campus, and all students who are 100% online.

The student health services fee covers health, counseling, and preventative health services on campus. The student health services fee is assessed at a semester rate of \$14.00 per credit hour, or \$167.00 for full-time students on the Morrisville campus. The student health services fee is waived for Norwich campus students who do not live on the main Morrisville Campus, it is also

waived for all students who are doing an internship away from campus, and all students who are 100% online.

The technology fee is used to build and maintain a technology infrastructure. It covers distance learning, high speed internet, wireless, smart classrooms, and other technology efforts. The technology fee is assessed at a semester rate of \$16.00 per credit hour, or \$193.00 for full-time students. The technology fee is charged to all SUNY Morrisville students.

The transportation fee is used to cover the cost of shuttle bus services that transports students around campus, including remote areas (equine and dairy facilities, and health clinical locations). It also covers the cost of buses to surrounding areas. The transportation fee is assessed at a semester rate of \$8.50 per credit hour, or \$97.00 for full time students on the main campus. The transportation fee is waived for Norwich campus students who do not live on the Morrisville campus. It is also waived for all students who are doing an internship away from campus, and all students who are 100% online.

The Alumni Fee is used to sponsor alumni events for current students so they are aware of the benefits of becoming an active alumni participant after graduating. The Alumni Fee is assessed at a semester rate of \$1.25 per credit hour, or \$12.00 for full time students.

The Career Services Fee is used to sponsor career oriented workshops for current students. The Career Services Fee is assessed at a rate of \$1.50 per credit hour, or \$13.00 for full time students.

### Billing

Students will receive an email notification to their MSC email account indicating a bill is available on line to view. Once they log in to Web for Students they can view their account, view and/or print their bill, make online payments, or enroll in the online payment plan. It is the students' responsibility to make sure that their bill is paid. This may mean following up with the Financial Aid Office and/or the Student Accounts Office by the due date.

### Refund Policy

Before registration, advance tuition deposit of \$100 is refundable upon written request to the Business Office until May 1 (November 1 - spring semester) or 30 days after acceptance date, whichever is later. Advance residence hall deposit of \$100 is refundable upon written request until July 1 (November 1 - spring semester) or 30 days after receipt of payment, whichever is later.

After registration, established withdrawal procedures must be initiated by the student with the school office to establish refund eligibility.

Tuition is refundable according to the following schedule:

<u>Withdrawal during</u>	<u>Refund</u>
First week .....	100%
Second week .....	70%
Third week.....	50%
Fourth week.....	30%
Fifth week .....	0%

Refunds for meal plans are granted only for students who withdraw during the first 9 weeks of the semester. No meal plan refund will be issued to a student dismissed from college or where a residence hall license is terminated due to any disciplinary action. No refunds on the base plan will be issued after week nine. Similarly, room rent refunds are granted only for students withdrawing or dismissed from the college for non-disciplinary reasons. No room rent refund is issued when the residence hall license is terminated due

to any disciplinary action. From initial occupancy until mid-semester, one-half semester's room rent may be refunded. After mid-semester, there is no room rent refund.

Students who withdraw and have federal financial aid (Title IV) may be subject to a processing fee of the lesser of five percent or \$100. Students (who are withdrawing and receiving Title IV funds) will have federal aid prorated during the first ten weeks (schedule available at time of withdrawal). **STUDENTS ARE NOT ELIGIBLE FOR DISBURSEMENT OF FEDERAL AID FUNDS IF THEY DO NOT ATTEND CLASSES.**

### Resident/Non-Resident Status

Newly enrolling students will be considered New York state residents for tuition purposes if they have had a New York state domicile (permanent or principal home) for 12 months immediately prior to registration. If students do not meet the 12-month requirement, but can present satisfactory proof of New York state domicile, in-state tuition rates will apply.

For tuition purposes, the residence of an un-emancipated minor (under is that of his/her parents. For an emancipated (independent) student, a number of the following factors may be considered: residence of parents, spouse and children; place of voter registration, residence for tax purposes, marital status, age, financial independence and income sources, sites of motor vehicle and other personal property registrations, and sites of real and personal property. Other factors are location of checking and savings accounts, place of employment, telephone directory listing, and place of draft registration.

### Eligibility Basics

At the state-operated campuses (University Centers, University Colleges, and Technology Colleges), students are generally considered New York state residents if they have established their domicile in New York State for at least 12 months prior to the last day of the registration period of a particular term.

1. Generally, individuals who have maintained their domicile in New York for a period of less than twelve months prior to the end of registration are presumed to be out-of-state residents and are not eligible for the resident tuition rate.
2. Individuals who are financially dependent and whose custodial parent(s) lives in a state other than New York are generally not eligible for the resident tuition rate.
3. Individuals do not meet the twelve-month residency requirement if domiciled in New York State primarily to attend college.
4. Dependent students of divorced or legally separated parents may acquire a New York state domicile if the custodial parent is a New York State resident or if the student resides with a non-custodial parent who is a New York state resident and the student intends to continue to reside with that parent throughout their attendance at SUNY.
5. Non-resident students may be eligible for resident tuition if they have graduated from a New York high school or received a NYS GED within five years of application to SUNY. See below for details under exceptions to the Domicile Rule.

### Determination of Domicile

To determine a student's domicile, campuses use the following principles:

1. A person may have multiple residences but only one domicile.
2. A person retains a domicile until it is abandoned.
3. Physical presence alone does not establish domicile or residency.

## Proof of Domicile

Campuses rely on documents and circumstances such as the following to determine if an individual's domicile is in New York state. For financially dependent students, the campus relies on documents relating to parents or legal guardian.

1. Duration of physical presence in New York.
2. State of residency of the student's family.
3. New York state voter registration.
4. New York state driver's license.
5. New York state motor vehicle registration.
6. New York state real property ownership.
7. New York state residential rental lease.
8. New York state income tax returns.

Questions about resident and non-resident tuition rates should be directed to the Student Accounts Office at each SUNY campus.

## Exceptions to the Domicile Rule: Military Personnel

Members of the U.S. Armed Forces while on full-time active duty and stationed within New York state, as well as their dependents, are eligible for the resident tuition rate.

Dependents of full-time active duty personnel who are stationed outside New York state qualify for resident tuition if the service member's "Home of Record" is New York.

Civilian employees of the military are not included in these exceptions to the domicile requirements.

Certain non-residents who have graduated from a New York high school may be eligible for resident tuition. Contact campuses for details.

## New York State High School

Certain non-residents who have graduated from a New York high school may be eligible for resident tuition. Contact campuses for details.

## Immigrant, Non-Immigrant & Undocumented

### Aliens

Students claiming to be immigrant aliens must present proof of their status by providing the campus with a valid Alien Registration Receipt Card. Once a student's immigrant status has been verified, the student may then establish New York state residency by meeting the domicile criteria.

Non-immigrants are grouped in categories depending on the type of visa presented at the port of entry. Non-immigrants admitted to the United States in categories that prohibit them from establishing a United States residence are not eligible for resident tuition.

In general, the Federal Illegal Immigration Reform and Immigrant Responsibility Act prohibits students who are unable to present valid documentation of their alien status from eligibility for the resident tuition rate. However, undocumented aliens who attend for at least two years and graduate from a New York high school may be eligible. See the campus for details.

## Glossary of Terms

Some terms used in this document have special meaning in the University's Resident Tuition policy:

1. Domicile - A fixed permanent home to which an individual intends to return whenever absent from the college.
2. Emancipation, Financial Independence - Students under the age of 22 must provide evidence of one year of independent living in order to be considered emancipated.
3. "Home of Record" - Part of an armed services record, which indicated that state of residency upon joining the military.
4. Immigrant Aliens - May lawfully reside in the United States on a permanent basis and hold a valid Alien Registration Card (green card).
5. Non-immigrant Aliens - Those aliens who enter the United States on a temporary basis for a specific purpose.
6. Undocumented Aliens - Aliens who are unable to document their INS status.



# FINANCIAL AID

*Information presented in this section may be subject to change. Please contact the Financial Aid Office for the most current information.*

The financial aid program includes part-time employment, loans, grants and scholarships. Its purpose is to assist students who would be unable to attend college because they lack the necessary financial resources. However, this basic concept of aid based on need assumes that parents have an obligation to finance the college education of their sons and daughters to the extent that they are able. The college determines the family's capacity to contribute to college costs through standardized application forms and procedures. All students are encouraged to apply for financial aid.

## Application & Award Procedure

1. Each student applying for financial aid must complete a Free Application for Federal Student Aid (FAFSA) online as instructed. The suggested deadline for applying for financial aid from the college is March 1 of that academic year. Students are encouraged to apply as early as possible. The form also permits application for the Pell Grant at the same time as application for aid from the college. Simply follow the instructions. A separate pre-printed application must be completed for the Tuition Assistance Program (TAP) and the Excelsior Scholarship Program which you can access online or it will be sent to you from HESC (if you are a NYS resident).

2. Online access for aid instructions will be sent to each student who has been accepted to the college and has a FAFSA on file with the Financial Aid Office.

3. Priority in the awarding of financial aid administered by the college (Federal Supplemental Education Opportunity Grant (SEOG), Federal College Work-Study (CWS) and Federal Nursing Student Loan Program (NSLP) is given to those students with the greatest financial need as determined by the FAFSA.

4. The Financial Aid offer will list the expected budget for the year and the estimated Pell Grant and TAP awards. In addition, the college may offer, depending upon financial need, Federal SEOG, Federal CWS award, Federal NSLP, if funds are available.

5. If sufficient aid is not received to meet college costs, the student will be provided information about the Federal Parent Loan for Undergraduate Students (PLUS) or alternative private loans upon request.

## Independent Students

Federal regulations require that a student, before being classified as independent, meets one or more of the following criteria: the student must be 24 years of age by January 1 of the year for which independent student aid is sought; the student must be a veteran of the armed forces or currently serving on active duty for purposes other than training; the student must be an orphan or ward of the court; or the student must have legal dependents other than a spouse and or be married; emancipated minor; legal guardianship; and or have been determined an unaccompanied youth or homeless.

## Responsibilities & Rights

It is the student's responsibility to:

1. Be familiar with the financial aid application procedures including application forms and deadlines. This information is available in this catalog, online, or from the Financial Aid Office.
2. Ensure all forms are complete and submitted within the prescribed time limits. Failure to do so may result in the cancellation of any aid offered.

3. Notify the Financial Aid Office of any changes in the parents' or the student's financial situation. The student's financial aid package will be adjusted to reflect any changes.

4. Notify the Financial Aid Office of any private scholarships or awards that the student receives during the academic year.

5. Notify the Financial Aid Office of any change that reduces a student course load to less than full time (12 credit hours).

6. Honor all agreements, including repayment provisions on any loans, made with the college and/or any other lending institutions.

7. Provide all forms requested by the Financial Aid Office for the purpose of verification of family income, family size and similar matters.

8. Reapply for financial aid each academic year. The college will make every effort to continue aid to those students who demonstrate financial need.

9. Maintain eligibility for federal financial aid programs. To maintain eligibility, the student must be enrolled at least half-time (6 credit hours) in an approved program (New York State financial aid programs require full-time enrollment—12 credit hours) and be in good academic standing. To be in good academic standing a student must be making satisfactory academic progress toward a degree and must be pursuing an approved program of study.

It is the student's right to:

1. Know how financial need was determined.
2. Know how decisions regarding financial aid were made.
3. Appeal any decision made by the financial aid staff.
4. Know how financial aid that has been awarded will be distributed. Generally, financial aid will be paid to the student's account in two equal installments, the first during the fall semester, and the second during the spring semester. The student will be billed each semester for tuition, fees, room and board. Any aid received will be credited toward the semester balance. If the aid received is in excess of the balance due, a refund will be given to the student and or parent.
5. Know what portions of the financial aid must be repaid and the annual interest rate.
6. Know the college's refund policy.

## Deferred Payments, Waivers, & Unanticipated Expenses

Instances may arise when approved loans or grants have not been received in time for registration by the student. Payment of that portion of the student's bill will be delayed, pending the arrival of these monies, when papers documenting the approved loan or grant are presented by the student or received by the college.

Students who experience unanticipated expenses of an emergency nature should contact the Bursar's office to discuss the possibility of obtaining a short-term emergency loan. At that time, definite plans for the repayment of a valid emergency loan will be agreed upon as well.

## Satisfactory Academic Progress for Federal Aid

### Federal Satisfactory Academic Progress (SAP)

To be eligible for FSA funds, a student must make satisfactory academic progress, and the Financial Aid Office must monitor that progress with the policy below:

- Student's federal financial aid eligibility will be evaluated at the end of each semester.
- The policy requires that the quantitative (time-based) and qualitative (grade-based) standards are reviewed at each evaluation point.
- Additionally, a specific qualitative review at the end of the student's second academic year requires a GPA of a 2.0 for programs lasting over 2 years.
- Remedial coursework is not included in the qualitative assessment nor quantitative assessment.
- Students who are on Financial Aid Suspension that enroll for courses without aid will be reevaluated at the end of the semester. Interruption of attendance for one or more academic periods does not have an effect on academic progress standing nor is it sufficient to re-establish aid eligibility.

### Associates Degree

Attempted Credits	0-22	23-35	36-51	52-83	84-99
Earned Credits	33.33% of Attempted Credits		66.67% of Attempted Credits		66.67% of Attempted Credits or Associates Degree
Minimum Cumulative GPA	1	1.5	1.9	2.0	2.0 or Associates Degree

### Bachelor Degree

Attempted Credits	0-99	99-175	180 or More
Earned Credits	See above	66.67% of Attempted Credits	66.67% of Attempted Credits or Bachelor Degree
Minimum Cumulative GPA	See above	2.0	2.0 or Associates Degree

No student will be eligible for federal aid if he/she has not completed his/her degree within 150 percent of the normal time required to complete the degree. For an associate degree, it is six semesters, and for a bachelor degree, it is 12 semesters.

### Satisfactory Academic Progress for State Aid

Full-time students, as determined by taking a minimum of 12 credit hours per semester, shall be considered meeting the standards of academic progress if they complete their degree within a maximum time frame. At the end of each year, a full-time student must complete at least this many credit hours:

#### For All Students In An Associate's Degree Program (2010 & After)

Semester	First	Second	Third	Fourth	Fifth
Credit Hours Completed	6	6	9	9	12
Credit Hours Toward Graduation	6	15	27	39	51
GPA	1.3	1.5	1.8	2.0	2.0

#### For All Students In A Bachelor's Degree Program (2010 & After)

Semester	First	Second	Third	Fourth	Fifth
Credit Hours Completed	6	6	9	9	12
Credit Hours Toward Graduation	6	15	27	39	51
GPA	1.5	1.8	1.8	2.0	2.0

## Financial Aid Implementation & Review Procedures

These regulations will be administered at the end of each academic semester.

1. Federal Direct Loans and PLUS programs require that a student be enrolled in a degree or certificate program. They will be required to meet the satisfactory progress section out-lined by grade point average.
2. If a student changes degree programs, he or she will be given a new time frame.
3. If a student changes majors and this change requires extra time to complete a degree, a re-evaluation of maximum time frame will be reviewed.
4. Transfers will be given a new time frame when they begin their first semester at SUNY Morrisville.
5. Students that fall below the satisfactory academic progress standards will have an opportunity to discuss any mitigating circumstances with the Dean. These programs are developed to facilitate flexibility of academic pursuit plans. Therefore, a student who falls under these criteria may very well have a mitigating circumstance which will affect the student's academic pursuit.
6. Students must be enrolled in courses applicable to their program of study.

Programs of less than one academic year's duration (fewer than 24 semester credits) are ineligible for state student financial assistance, Tuition Assistance Program (TAP) and aid for part-time study (APTS). The program is eligible for Vietnam Veterans Tuition Awards (VVTAs).

Generally, a student who is maintaining at least a 2.0 grade point average and meets the pursuit of program requirements will have maintained satisfactory academic progress.

Students entering college for the first time would be required to meet, upon completion of that semester, the criteria listed for the first semester. Those students previously in college would be placed on the chart in accordance with the number of semesters completed. For example, a student who attended Morrisville would be required, upon completion of the second semester, to meet the criteria listed under the second semester.

## Program Pursuit

A student must complete with a grade of A through F a minimum number of credit hours each semester as follows:

1. During the first year of award the student must complete six hours each semester, however have accumulated 15 hours in total.
2. During the second year of award the student must complete 9 hours each semester, with a total accumulated 27 hours after the third term and a total of 39 after the fourth term.
3. During the third and fourth years of award the student must complete 12 hours each semester, however 15 is suggested to advance your total accumulated credits.

If a student does not complete the minimum number of hours in a semester, the student will not be eligible for financial aid. Any courses that are dropped do not count when determining program pursuit.

In order that the student be in good academic standing both satisfactory academic progress and program pursuit must be maintained. If a student fails to meet the minimum requirements, a one-time waiver may be granted provided the student can demonstrate that extraordinary circumstances warrant its use.

## FEDERAL AID PROGRAMS

*Information presented in this section may be subject to change. Please contact the Office of Financial Aid for the most current information.*

### Federal Pell Grant

Federal Pell Grants make funds available in the form of grants to eligible students attending approved colleges, community colleges, junior colleges, vocational schools, technical institutes, hospital schools of nursing and other post-high school institutions. Pell awards do not have to be repaid, and range from \$652 to \$6095 per year. The application for the Pell Grant is the Free Application for Federal Student Aid (FAFSA).

Applications are available at [www.fafsa.ed.gov](http://www.fafsa.ed.gov), from guidance offices or the Financial Aid Office at the college.

### Federal Supplemental Educational Opportunity Grant (SEOG)

The Federal SEOG program is for students of exceptional financial need who would be unable to continue their education without the grant. A student is eligible if matriculated at least half-time as an undergraduate or vocational student in a participating educational institution and must be Pell Grant eligible. Funds may be limited.

A Federal SEOG award cannot be less than \$500 or more than \$4,000 a year. Normally, a Federal SEOG may be received for up to four years. Since the Federal SEOG is awarded by the college, only normal financial aid application procedures need be followed. Funds may be limited.

## Federal Nursing Student Loan Program (NSLP)

The Federal NSLP is for students who are enrolled at least half-time in an approved program leading to the associate degree in nursing. The college determines who is eligible for the loan, and the amount that will be offered. A student may accumulate up to \$3,000 per year. Funds may be limited.

Repayment begins nine months after the borrower graduates, is no longer enrolled in the nursing program, or leaves school for other reasons. Interest during the repayment period is five percent. Information on this program will be provided automatically to all borrowers and to others upon request. Since the federal NSLP is awarded by the college, only normal financial aid application procedures need be followed.

## Federal College Work Study (CWS) Program

The Federal CWS program provides funds to employ students who have an unmet financial need. Students must be enrolled at least half-time in a graduate, undergraduate or vocational program in an approved post-secondary educational institution. The college determines who is eligible for CWS, how much the student may earn and when the student will work. Jobs range from assisting individual instructors to clerical assistants to tour guides in the Admission Office. Since CWS is awarded by the college, SUNY Morrisville will make every effort to place students. The work study program functions on a first come, first served premise. Funds and positions may be limited.

## Federal Direct Loan for Student Borrowers

To be eligible for a Direct Loan, a student must be a U.S. citizen or permanent resident alien and must be enrolled in or admitted as at least a half-time student at an approved college, university or other post-secondary institution in the United States or in a foreign country.

An undergraduate may borrow up to \$3,500 the freshman year, \$4,500 the sophomore, \$5,500 the junior, and \$5,500 the senior year of study (up to 27 credits). All students are eligible to receive a minimum of \$2,000 of unsubsidized funds each year (28-61 credits). The Federal government will pay interest on the subsidized loan while the student is in college. For an unsubsidized loan, the student has the option of paying the interest while in school or allowing the interest to accrue. All loan disbursements for first-time borrowers cannot be distributed until 30 days into the semester per federal regulation. Each loan is subject to an origination fee.

The following regulations apply:

1. Depending on the amount of the loan, the minimum monthly payment will be \$50 plus interest. Under unusual and extenuating circumstances the government, on request, may permit reduced payments.
2. The standard repayment period is 10 years.
3. The maximum period of loan from date of the original note may not exceed 15 years, excluding authorized deferments of payments.
4. Repayment in whole or part may be made any time without penalty.

**You must complete the FAFSA to apply for the Federal Direct Loan.**

## Parent Loan for Undergraduate Students (PLUS)

PLUS permits a parent to borrow the full cost of education less any financial aid. Repayment begins 60 days after the second disbursement has been issued, or can be deferred until after your student has graduated or leaves school for other reasons. This option is determined through direct lending and the parent borrowing. The parent **MUST** be a U.S. citizen or permanent alien resident in order to be eligible for this loan. The parent must be the "birth parent" or "adoptive parent". This loan is subject to a credit review.

**You must complete the FAFSA to receive the loan application(s) for the Federal PLUS Loan.**

## Native American Assistance

United States Bureau of Indian Affairs Aid (BIA) to Native Americans is awarded by the Bureau of Indian Affairs to eligible applicants. To be eligible an applicant must be at least one-fourth American Indian, Eskimo, or Aleut; be an enrolled member of a tribe, band or group recognized by the Bureau of Indian Affairs; be enrolled in or accepted for enrollment in an approved college or university; and have financial need.

For grants to be awarded in successive years, satisfactory progress toward a degree and financial need must be demonstrated. Depending on availability of funds, grants may also be made to graduate students and summer session students. Eligible married students may also receive living expenses for dependents.

Application forms may be obtained from the Bureau of Indian Affairs Office, U.S. Department of the Interior. An application is necessary for each year of study. An official needs analysis from the college financial aid office is also required each year. Each first-time applicant must obtain tribal enrollment certification from the Bureau agency or tribe which records enrollment for the tribe.

## Veterans Benefits

There are a variety of educational assistance programs available to veterans who meet the criteria.

**Montgomery G.I. Bill - Active Duty:** Educational Assistance Program (Chapter 30) (Based on active duty service beginning on or after July 1, 1985 or you entered on active duty before January 1, 1977 and served on active duty for any number of days during the period October 19, 1984 to June 30, 1985, and continued on active duty through June 20, 1988.)

**Montgomery G.I. Bill - Selective Reserve:** Educational Assistance Program (Chapter 1606) (Notice of Basic Eligibility, member of the selected reserve).

**Post-9/11 GI Bill** - Provides financial support for education and housing to individuals with at least 90 days of aggregate service on or after September 11, 2001, or individuals discharged with a service-connected disability after 30 days. You must have received an honorable discharge to be eligible for the Post-9/11 GI Bill.

**VEAP (Chapter 32)/Non-Contributory VEAP (Section 903)** - Service beginning on or after January 1, 1977 through June 30, 1985.

**Survivors' & Dependents'** - Educational Assistance Program (Chapter 35) only for survivors and dependents of deceased or permanently and totally disabled veterans. Both must be service connected qualifications.

**Vocational Rehabilitation** - (Chapter 31) Educational Assistance by authorized certificate only. Eligible application forms are available at all VA offices, active duty stations and Registrar's Office. Submit completed forms to the Registrar's Office, Whipple Administration Building, SUNY Morrisville, P.O. Box 901, Morrisville, N.Y. 13408.

## Other Federal Student Financial Aid Programs

A large number of special-purpose Federal programs exist, many of which are administered through specific institutions of post-secondary education. Most of these programs would be of interest to relatively small numbers of students and prospective students, by virtue of need or special interest, or both. Some are available only to graduate or professional students, in certain fields. Some carry with them periods of obligated service. The most authoritative, although certainly not the only reference for additional information on these, and many other programs, is published annually: 1996 Catalog of Federal Domestic Assistance, Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

## Title IV Aid

Title IV Aid refers to all Federal Financial Aid: Direct Subsidized Loans, Direct Unsubsidized Loans, Parent (PLUS) Loans, Nursing Student Loans, Pell Grants, and SEOG Grants.

Students scheduled to receive financial aid refunds and then withdraw will be directly responsible for repaying the unearned portion of their aid package. Pursuant to current Federal guidelines, students who receive Title IV financial aid and withdraw during the first ten weeks of class will be required to repay a portion of aid received.

Federal Title IV policy determines the amount of aid a student is eligible to use toward their bills. A per-centage is calculated based on days attended vs. total days of instruction. Title IV Aid is then multiplied by this percentage to determine how much Title IV Aid has to be returned to the Federal Government.

## NEW YORK STATE FINANCIAL AID PROGRAMS

*Information presented in this section may be subject to change. Please contact the Office of Financial Aid for the most current information.*

### Excelsior Scholarship Program

The Excelsior Scholarship program covers the cost of in-state tuition for qualified New York State residents whose family adjusted gross income meets the designated income threshold. Annual income eligibility, as reported on the prior-year tax returns, may not exceed \$100,000 beginning in fall 2017, \$110,000 beginning in fall 2018, and \$125,000 beginning in fall 2019. To maintain this award, students must be in good academic standing, earn at least 30 credits per year with satisfactory progress toward graduation, graduation within two years for an associate degree or four years for a bachelor degree, and reside in New York State after graduation (two years if an associate degree is earned or four years if a bachelor degree is earned).

An Excelsior Scholarship recipient may receive up to \$5,500 minus any amounts received for TAP, PELL, or other scholarships. Any remaining difference in tuition will be covered by a SUNY tuition credit. To apply, students must complete the Excelsior Scholarship application available on the HESC website ([www.hesc.ny.gov](http://www.hesc.ny.gov)). Additional program information, including information specific to EOP students and military veterans, is also available on the HESC website.

### Tuition Assistance Program (TAP)

TAP provides funds in the form of grants for students who have been legal residents of New York State for at least one year immediately preceding the term for which payment is requested. To be eligible for a TAP award, a student must be a U.S. citizen or resident alien, a New York State resident, a full-time, matriculated student in an approved program in New York State, and have a combined family state net taxable income for the previous year of \$80,000 or less.

Awards range from \$500 to \$5,165, including a SUNY tuition credit to cover any remaining tuition expense not met by TAP; depending on need, level of study and the college attended. To apply, students must file the TAP application sent home once the FAFSA is processed.

The Higher Education Services Corporation determines eligibility and will mail an award certificate directly to the student indicating the amount of the grant. The school copy of the certificate should be presented prior to the time of payment of tuition. The college will defer payment on the basis of receipt of the award certificate. Once a student has received four semesters of awards, they must have a GPA of at least 2.0 to continue to receive TAP awards. The maximum number of semesters of eligibility is six in a two-year program, eight at the four-year level.

## Regents Awards for Children of Deceased or Disabled Veterans

Grants are awarded to New York state residents who are children of certain deceased or disabled veterans and who attend approved public and independent colleges and schools in New York State.

Applications are accepted from a child of a veteran who died, or who has a current disability of 50 percent or more, or who had such disability at the time of death, resulting from U.S. military service during one of the following periods:

Conflict or National Emergency	Period of Service
Afghanistan	09/18/01 - end of hostilities
Iraq	10/16/02 - end of hostilities
Persian Gulf	08/02/90 - end of hostilities
Vietnam/Indochina	12/22/61 - 05/07/75
Korean Conflict	06/27/50 - 01/31/55
World War II	12/07/41 - 12/31/46
World War I	04/06/17 - 11/11/18
or as a Merchant Seaman during the period from 12/07/41 to 08/15/45	

Students whose parent(s) was the recipient of the Armed Forces Expeditionary Medal, Navy Expeditionary Medal, or the Marine Corps Expeditionary Medal for participation in operations in Lebanon, Grenada, or Panama.

Conflict or National Emergency	Period of Service
Panama	12/20/89 - 01/31/90
Grenada	10/23/83 - 11/21/83
Lebanon	06/01/83 - 12/01/87

Note: Students who were born with spina bifida whose parent is a Vietnam Veteran who served in the U.S. Armed Forces in Indochina between 12/22/61 - 05/07/75 must contact HESC at 1-888-697-4372 for application instructions.

And who is a legal resident of New York State. The parent must be a legal resident of New York State at the time of entry into military service, or, if the parent died as the result of military service, at the time of death. Regents Awards to children of deceased or disabled veterans are independent of family income or tuition charge, and are in addition to such other grants or awards to which the applicant may be entitled.

The amount of the award is \$450 per year, for up to five years, depending on the normal length of the program of study, of full-time study in a college or in a hospital nursing school in New York State.

A special application, obtainable from a high school principal or counselor, must be filed with the New York Higher Education Services Corporation (HESC), Tower Building, Empire State Plaza, Albany, New York 12255. Documentary evidence to establish eligibility is required with the application. Any high school counselor can provide assistance with this. Applications are due by June 30th of the academic year.

## Other State Financial Aid Programs

A number of additional state programs exist of interest to relatively smaller groups of students and prospective students than those described on the preceding pages. For detailed information contact:

The New York State Education Department  
Division of Educational Testing  
Albany, NY 12234



### State Assistance for Native Americans

Grants of \$1,750 are awarded to high school graduates who are residents of one of New York's eight major reservations and who attend an approved post-secondary educational institution in New York State. Information may be obtained by contacting the New York State Native American Programs, Room 543, New York State Education Dept., Washington Ave., Albany, N.Y. 12234.

### Adult Career & Continuing Education Services

The New York State Office of Adult Career and Continuing Education Services (ACCES) provides program counseling and financial assistance for students who have certain physical, mental or emotional disabilities. Contact the nearest ACCES for information, or write to the University of the State of New York, State Education Department, Office of Adult Career and Continuing Education Services, Albany, N.Y. 12234.

### No Interest Automatic Payment Plan

SUNY Morrisville participates with FACTS – Nelnet Business Solutions. The no interest monthly on-line payment option enables families to spread all or part of their semester education expenses up to 4 equal monthly payments, depending on when they enroll. This eliminates the lump sum payments usually due at the start of each semester. Contact the Student Accounts Office at 315-684-6069 for more information.

### A.O.E. Educational Opportunity Program (EOP)

The principal mission of the Educational Opportunity Program (EOP) at SUNY Morrisville is to provide educational opportunity and support to students with strong academic and personal potential and students who would otherwise be excluded from higher education due to circumstances of academic and economic disadvantage. Admission procedures have been developed and implemented to select applicants who have the potential to succeed in college, but do not have the academic preparation or financial resources necessary for admittance.

Once students are admitted to SUNY Morrisville through EOP, supportive services including financial aid, tutoring, counseling and specific courses are provided to help students achieve educational and personal goals. Applicants must file a Free Application for Federal Student Aid (FAFSA) and a Tuition Assistance Program (TAP) application which are used by the SUNY Morrisville Financial Aid Office to ascertain personal and family resources. Financial aid packages are awarded according to students' needs. Any questions should be directed to the admission or EOP offices.

The EOP office is located in the Butcher Library, 315.684.6075

### EOP Economic Guidelines

Income guidelines have been established to determine economic eligibility for EOP. If your family income does not meet these economic guidelines, do not apply for the EOP program. Apply through regular admission procedures. You may still be eligible for financial aid.

### Income Guidelines

See the table at the end of this section for financial eligibility requirements for EOP admission.

The income guidelines do not apply if:

- You or your family receives payment from Temporary Assistance to Needy Families, Home Relief, Safety Net or Family Day Care through a New York State or County Department of Social Services, Office of Temporary and Disability Assistance, or Office of Children and Family Assistance
- You live with foster parents who do not provide support for college, and your natural parents provide no such support

- You are a ward of the state or county

### EOP Economic Eligibility Guidelines

Academic Year 2018-2019

Household Size (including head of household)	Total Annual Income in 2016 Calendar Year
1	\$22,311
2	\$30,044
3	\$37,777
4	\$45,510
5	\$53,243
6	\$60,976
7	\$68,709
8	\$76,442

Families/households with more than 8 persons, add \$7,733 for each additional person.

The figures listed above usually change each year.

Application for the program is on the standard SUNY application form. Selection of eligible applicants is conducted by the Admissions, Financial Aid and EOP offices on campus.

The amount of financial assistance and other support provided to EOP participants is dependent on financial need as determined by the Financial Aid Office and the program, within state guidelines. Further information is contained in the State University information and application booklet, or may be obtained by writing the Educational Opportunity Program, SUNY Morrisville, PO Box 901, Morrisville, New York 13408.

# SCHOLARSHIPS AND AWARDS

## MUSTANG MERIT-BASED AWARDS

All incoming applications are evaluated for academic strength, and Mustang Merit Scholarships are offered to accepted students on a rolling basis, no separate scholarship application needed. To maximize scholarship opportunity, early admission applications are encouraged. Scholarship amounts are subject to change based on fund availability. To guarantee the awarded amount, students must comply with response requirements as outlined in award letters. Unless otherwise noted, these scholarships do not cover the cost of college tuition and will be applied to non-tuition related expenses up to the total cost of attendance.

### Academic Awards

#### Eligible Students: All Incoming Freshmen

Academic Awards are awarded to new and incoming students who have shown high academic achievement throughout high school. Students are awarded Academic Awards based on cumulative high school GPA, SAT/ACT scores, state exams and extracurricular activities. All completed applications for admission to the College are evaluated for academic strength, and awards are offered on a first-come, first-served basis. It is important to note that qualified applicants typically exceed available merit awards so early application is encouraged. Upon award offering, a student offered a scholarship for the fall term prior to April 30 must accept the terms of the scholarship offer by May 1, or within 30 days if the offer is received after April 1. For students offered a scholarship award prior to October 1 for spring enrollment, the deadline for acceptance is November 1, or within 30 days if offered after October 1.

Four levels of Academic Awards are available. They include the Trustees Award, Presidential Award, Deans Award and Mustang Award. These awards range from \$1,000 per year up to \$8,000 per year. The Trustees and Presidential scholarships are awarded for a maximum of four years and require that students be enrolled full time and maintain a 3.0 GPA or higher. The Dean's and Mustang Scholarships are awarded for a maximum of four years and require that students be enrolled full time and maintain a 2.5 GPA or higher.

For more information, please call the Admissions Office at 315.684.6046 or email [admissions@morrisville.edu](mailto:admissions@morrisville.edu).

### Empire State Diversity Honors Scholarship

#### Eligible Students: New & Continuing Students

The Empire State Diversity Honors Scholarship (ESDHS) Program is a scholarship of direct aid to attract and retain undergraduate students to State University of New York (University) campuses who have demonstrated high academic achievement and can demonstrate that they will contribute to the diversity of the student body.

### Interstate Scholar's Program

#### Eligible Students: Incoming Freshmen from Other States

The Interstate Scholars Program awards up to ten deserving out-of-state students the opportunity to reduce their tuition costs. This merit based award provides the successful recipient \$3,000 per year toward tuition and fees for a maximum of four years. All completed out-of-state applications to the College are evaluated on academic strength based on high school GPA and SAT/ACT scores. All awards are offered on a first-come, first served basis. It is important to note that qualified applicants typically exceed available merit awards so early application is encouraged. Students must be enrolled full time and maintain a minimum GPA of 2.5.

For more information, please call the Admissions Office at 315.684.6046 or email [admissions@morrisville.edu](mailto:admissions@morrisville.edu).

### Academic Success Scholarship

#### Eligible Students: All Incoming Freshmen

SUNY Morrisville is committed to the local communities with campuses in both Morrisville and Norwich, NY. Awarded to incoming freshmen ranked in the top 10% of their graduating class from high schools in Madison or Chenango counties.

Eligible applicants must submit class rank as established during their senior year of high school, and submit a FAFSA to the SUNY Morrisville Financial Aid office no later than March 1 of senior year. Students must be enrolled full time and maintain a minimum GPA of 3.0.

For more information, please call the Admissions Office at 315.684.6046 or email [admissions@morrisville.edu](mailto:admissions@morrisville.edu).

### SUNY Morrisville Transfer Scholarship

#### Eligible Students: New Transfer Students

Transfer students who have graduated with an associate's degree and are enrolling at SUNY Morrisville for a bachelor degree program, may be eligible to receive up to \$3,000 per year for two years of study at SUNY Morrisville. Award recipients must have a 3.0 GPA to maintain eligibility. All transfer applications will be evaluated on academic strength, and students who are active members of Phi Theta Kappa may receive up to \$4,000 per year for 2 years.

For more information, please call the Admissions Office at 315.684.6046 or email [admissions@morrisville.edu](mailto:admissions@morrisville.edu).

### SUNY Morrisville Leadership Awards

#### Eligible Students: New and Continuing Students

#### High School Active Member of 4H, FFA, FBLA, Skills USA, Boys' or Girls' State, Scouts, or NYS Dairy Princess

A student participant in chapter activities and member in one of the above NYS and national organization is eligible for \$250 per semester. A GPA minimum of 2.5 is required to maintain the scholarship and is renewable each semester of attendance. The total value of the scholarship award for associates degree candidate is a maximum of \$1,000 and for a baccalaureate degree candidate the maximum award is \$2,000.

### State or National Officer/Eagle Scout or Gold Award Recipient

Students who serve as a Line Officer or District President either prior to attending SUNY Morrisville or while enrolled are eligible for the active member \$250 per semester award and an additional \$1,000 per semester scholarship. A minimum GPA of 2.5 is required to maintain eligibility. The total award at the associate's degree level cannot exceed \$5,000 and cannot exceed \$10,000 at the baccalaureate level.

### SUNY Morrisville Technician Award

#### Eligible Students: Incoming Freshmen and Transfer Students

A one-time award to a maximum of \$3,000 will be applied to the first Fall semester bill to supplement the additional costs associated with the following programs: Agricultural Engineering Technology, Agricultural Mechanics, Diesel Technology, Automotive Technology, and Auto Body Technology. Previous academic history and financial need will be considered in determining the student's eligibility for this award.

## FOUNDATION SCHOLARSHIPS

The following Foundation scholarships require a separate application which is available online at the SUNY Morrisville website. Please provide supplemental materials with your application (only if required) to meet specific award criteria as noted in the description. Eligible candidates may apply for more than one scholarship using the same application. While not required, it is strongly

suggested for all students applying for scholarships to have a completed current FAFSA on file.

The deadline to apply for most Foundation Scholarships is February 1. Successful candidates will be notified March 1 prior to the start of the academic year unless a different award process is specifically indicated. Unless otherwise noted, these scholarships do not cover the cost of college tuition and will be applied to non-tuition related expenses up to the total cost of attendance.

All submissions are reviewed by the SUNY Morrisville Scholarship Committee. In the event that no qualified applications are received, the SUNY MORRISVILLE Scholarship Committee reserves the right to select a student who meets award eligibility requirements. For more information on any of the following awards or scholarships, please contact the Admissions Office at 315.684.6046 (email: [admissions@morrisville.edu](mailto:admissions@morrisville.edu)) or the Office of Institutional Advancement at 315.684.6020.

## AWARDS & SCHOLARSHIPS

### Alumni Legacy Awards

#### Eligible Students: New and Continuing Students

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

The Alumni Legacy Awards program recognizes students whose parent(s), guardian(s), or grandparent(s) are alumni of SUNY Morrisville. Awards are given for the fall semester only and may be applied for each year.

### Children of Employee Awards

#### Eligible Students: New and Continuing Students

This annual award is given to students who are attending SUNY Morrisville full time (at least 12 credit hours), whose mother or father are currently employed by SUNY Morrisville. Students must maintain a 2.5 GPA to maintain eligibility.

### Raymond L. Banks Scholarship

#### Eligible Students: Continuing Students

This scholarship is available to a returning SUNY Morrisville student (in any academic program) continuing their education in a four-year program at SUNY Morrisville. The award is based on merit (including a GPA of 3.0 or higher), demonstrated financial need, and a combination of leadership and community service. Funds are awarded for the following academic year.

### Floyd L. Beebe Memorial Award

#### Eligible Students: Continuing Students

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

The Floyd L. Beebe award was created by Professor Robert Beebe in memory of his father. This award recognizes a full-time student at the Morrisville campus who meet the following criteria: Academic merit – must have a 3.25 or higher cumulative GPA, show financial need, goes above and beyond, and must be enrolled in one of the following degree programs: Accounting; Agricultural Business; Agricultural Business Development; Agriculture Engineering; Agricultural Science; Automotive Technology; Automotive Technology Management; Business Administration; Computer Information Systems; Entrepreneurship and Small Business Management; Environmental and Natural Resources Conservation; Food Service Administration; Information Technology-App Software Dev; Information Technology –Electronic Mktg & Pub; Information Technology – End-User Support; Information Technology – Management; Information Technology – Network Administration; Information Technology – Web Development; Medical Office Administration; Office Administration: Management; Residential Construction; Restaurant

Management; Technology Management; Teacher Education (Transfer); Wood Products Technology.

### The Kurt C. & Lauretta K. Blixt Scholarship

#### Eligible Students: New and Continuing Students

This scholarship was created by the family of Kurt and Lauretta Blixt (Kurt, a former professor of SUNY Morrisville). This scholarship is available to any student attending the Morrisville campus showing financial need.

### Ruth Owens Gregory Clark '60 Award

#### Eligible Students: Continuing Students

This award will be given annually to a SUNY MORRISVILLE student who is enrolled in the medical office administration, health related studies, or nursing curriculum and who plans to continue in this curriculum at SUNY MORRISVILLE. Awards will be given to a student who demonstrates financial need and is a non-traditional student. Preference will be given to a female student with dependent children.

### Richard L. & Marian P. Cook Foundation

#### Eligible Students: New Students

This award goes to a Norwich High School graduate attending SUNY MORRISVILLE with a preference given to those who are entering in the field of environmental or ecological studies. This scholarship is based upon character, academic qualifications, potential, background, and promise of applicant. Need may also be considered.

### Greater Norwich Foundation Scholarships

#### Eligible Students: New and Continuing Students

Established in 1965, the Greater Norwich Foundation has been contributing funds to the Morrisville College Foundation for scholarships which are to be awarded to students from Norwich enrolled at SUNY Morrisville (both Morrisville and Norwich campus) who have demonstrated excellence in academic performance.

### John “Doc” Humphrey Scholarship

#### Eligible Students: New and Continuing Students

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This scholarship is awarded to a full-time student attending SUNY MORRISVILLE at the Morrisville campus. The applicant may not be a member or relative of the Alpha Delta Mu Fraternity. A personal essay is required with the application answering the following question: How has music affected or been part of your life? A high school transcript for incoming freshmen, a college transcript for existing college students, is required with the application. Applications are available online and at the Office of Institutional Advancement, Brooks Hall. The deadline to apply is September 1 of each year. A presentation of this award to the recipient is made by the ADM group during Mustang Weekend.

### KDS/Taze Huntley Memorial Scholarship

#### Eligible Students: New and Continuing Students

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

Good citizenship, academic merit, campus involvement and good character are criteria for selecting winners of this scholarship, named for the popular former faculty member. The deadline to apply for this scholarship is November 15 of each year.

## **Oneida Savings Bank Charitable Foundation – Hardship Fund**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This fund is to assist students financially who reside in Madison County and who are experiencing a hardship. A personal essay is required describing your hardship and how the funds will help your situation. (The hardship must be verified by a professor or advisor.)

## **Dona Cruz Pena Memorial Fund**

### **Eligible Students: Continuing Students**

This award is based on financial need. Academic merit is also considered when awarding.

## **Paul Petreikis Scholarship**

### **Eligible Students: New and Continuing Students**

This fund was established by the estate of Paul Petreikis and will be awarded to up to three students who meet the financial assistance requirements and academic GPA of 2.0 or higher.

## **Kenneth R. Spratt Memorial Scholarship**

### **Eligible Students: New and Continuing Students**

This scholarship provides one merit award per year to a student from the Central New York area who meets the financial assistance requirements. The award will cover the traditional academic year and will be utilized for academic pursuits in the form of tuition, fees, and/or books.

## **Technology Services Thomas A. Burt Memorial Award**

### **Eligible Students: New Students**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

Technology Services is pleased to announce that we will be awarding a new Lenovo ThinkPad laptop (with standard software package) to an incoming freshman in any required laptop major. Qualified applicants must have a cumulative high school average of 85 or higher.

Applications can be printed and should be filled in completely. Students must also submit a letter of recommendation from a teacher, guidance counselor, or work supervisor. All completed applications must be postmarked no later than February 1st. All applications must be filled out by the student, including the signature and date. Incomplete applications and applications deemed not filled out by the student will not be accepted. There will be no exceptions. The award committee will review applications, make a final decision, and notify the winner by March 1. The laptop will be awarded during Welcome Days Laptop Distribution. To keep the scholarship the student must maintain a cumulative GPA of 3.0 and remain in "Good Standing."

## **Otis A. Thompson Foundation Award**

### **Eligible Students: New and Continuing**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This scholarship is designed for full-time students attending from either Chenango, Otsego or Delaware County.

## **Glenn Tucker Award**

### **Eligible Students: New and Continuing**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This award is to provide financial assistance to full-time students studying at the Morrisville Campus in any program. A 2.5 GPA (or high school equivalent) is required and must show financial need.

## **Dr. Henry Washington Award**

### **Eligible Students: New Students**

This award is in memory of Billy Harper, former director of the Syracuse Educational Opportunity Center (EOC). Students will be nominated for the award by a committee comprised of staff from the EOC and the College's Educational Opportunity Program (EOP). Eligible nominees will be members of a minority group who have been enrolled at the EOC who are going to attend SUNY Morrisville. In the absence of an EOC student attending Morrisville, current EOP students will be eligible. The award recognizes the achievements of Dr. Henry Washington, one of Syracuse's first black physicians and an active member of several community organizations.

## **Whipple Scholarships**

### **Eligible Students: New**

Eligibility for the Whipple Scholarship is based on the cumulative grade point average, SAT or ACT scores and extracurricular activities. Students must be enrolled full time (at least 12 credit hours) and maintain a GPA of 3.0 or higher to maintain this award. Student must live on campus.

# **SCHOOL OF AGRICULTURE & NATURAL RESOURCES**

## **Agriculture**

## **William L. Carr Scholarship**

### **Eligible Students: Continuing Students**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This scholarship is awarded to a full-time, second year student studying either Agricultural Engineering, Agricultural Mechanics, Agricultural Science, or Diesel Technology. This award is based on a minimum 2.5 GPA and financial need. The application is available online or at the Institutional Advancement Office, 315.684.6020. The deadline is September 1 of each year.

## **Crane Agricultural Scholarship**

### **Eligible Students: Continuing Students**

This scholarship is intended to encourage and reward academic achievement in selected fields of study in the School of Agriculture, Sustainability, Business & Entrepreneurship. This scholarship is available to returning full-time students in an associate degree program with academic majors in Agricultural Engineering, Animal Science - Dairy, Agricultural Science, or Agricultural Business. The award is based on maintaining a 3.0 grade point average, extracurricular activities, financial need and interest in the agricultural field.

## **Merton Evans Scholarship**

### **Eligible Students: New Students**

This scholarship is awarded annually to an incoming agricultural freshman student who shows promise to excel and succeed at college level work, demonstrates financial need, and maintains a minimum GPA of 3.0. The Evans family requests that the successful recipient communicate with them



over the course of their SUNY Morrisville educational experience.

### **H.C. Hemingway & Co. Scholarship**

#### **Eligible Students: New Students**

The H.C. Hemingway & Co. Scholarship is a Presidential Scholarship in the name of H.C. Hemingway and in the memory of the Hemingway family, who were prominent food processors instrumental in establishing the food processing curriculum at SUNY Morrisville. Four generations of Hemingways carried on the family business and the family name has long been revered in the industry not only in New York State but nationwide. The scholarship is made in the fall to an incoming freshman residential student. Criteria for the award include enrollment in Agricultural Business or Agricultural Science, a high school grade point average in the higher percentile with a high SAT score, and involvement in the community. A minimum 3.0 GPA is required to maintain eligibility.

### **Laura Janson Scholarship**

#### **Eligible Students: New and Continuing Students**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

The Laura Janson Scholarship recognizes a full-time student enrolled in their second year or higher, in an animal-science related degree at SUNY Morrisville, with a GPA of 3.0 or higher. A short essay is required describing how your love for other people is affected by your love of animals, along with your experiences in caring for the animals' needs (from daily barn duties to the extra care/effort you have given to animals).

### **I.L. Richer Scholarship**

#### **Eligible Students: New and Continuing Students**

This scholarship provides one merit award per year to a student enrolled in an agricultural program who meets financial assistance requirements. The award will cover the traditional academic year and be utilized for academic pursuits in the form of tuition, fees and/or books.

### **P. Daniel Stevens Memorial Scholarship**

#### **Eligible Students: New and Continuing Students**

This fund was established in 1994 by the Canterbury Riding Club and Pony Pals, two 4-H clubs from Onondaga County, with the proceeds earned from the jointly sponsored Central New York Junior/Amateur Horse Show. The scholarship is named in memory of one of the original show coordinators. This scholarship is presented to a student from the Central New York area who has previous 4-H experience and is enrolled in Natural Sciences, Agricultural, or Nursing programs.

## **Dairy**

### **Dave Crowley Memorial Scholarship**

#### **Eligible Students: New Students**

Awarded annually to an incoming freshman who meets two of the following criteria: has been accepted into the dairy program; is a graduate of Red Jacket High School (part of the Manchester-Shortsville School District), and/or who is a resident of Ontario County involved in the 4-H program. If no candidate meets those requirements, the student can be a freshman accepted into the Information Technology program in addition to meeting the other criteria.

## **Diesel Technology**

### **Milton/Caterpillar Excellence Scholarship**

#### **Eligible Students: New and Continuing Students**

Since 1998, both Caterpillar Inc. and Milton contributed to a scholarship fund which is given to three freshmen and two seniors. These scholarships

provide merit awards to students in the Agriculture Engineering or Diesel Technology program who meet educational and financial assistance requirements. For further information contact the Admissions Office, 315.684.6046. The application deadline is June 15 for first-year students and October 1 for second-year students.

### **Central New York Chapter of the American Truck Historical Society Scholarship**

#### **Eligible Students: Continuing Students**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

All individuals who are enrolled in the two-year diesel technology program as full-time students are eligible to apply for this scholarship. A combination of financial need and a minimum GPA of 2.5 are required. The student and a guest are invited to attend the Chapter's annual dinner in January.

### **Tracey Road Equipment Award**

#### **Eligible Students: Continuing Students**

This award will be given annual to a freshman SUNY MORRISVILLE student who is enrolled in the diesel technology curriculum and who plans to continue in this curriculum at SUNY MORRISVILLE. Awards will be given to a student who has demonstrated financial need. Preference will be given to a student who maintains a 2.5 GPA or higher.

### **Twin Tier Truck Club Award**

#### **Eligible Students: Continuing Students**

This award will be given to a student returning in the diesel tech program with a 2.5 GPA or higher who shows financial need. Preference will be given to a student from the southern tier and central New York area.

## **Environmental Sciences**

### **Jeffrey Dale Beach Memorial Scholarship**

#### **Eligible Students: Continuing Students**

This award is given to a student entering his or her senior year who has the highest GPA in the Natural Resource Conservation Program.

### **Kenneth Spafford Willey, Jr. Memorial Scholarship Fund**

#### **Eligible Students: Continuing Students**

This scholarship is awarded annually to one SUNY Morrisville student who is pursuing a degree in a Natural Resource Conservation/Wildlife Management or related environmental science area of study. Selection criteria include merit, progress toward a degree, good character, campus citizenship and campus involvement.

## **Equine Studies**

### **Richard Bartlett Scholarship**

#### **Eligible Students: Continuing Students**

This scholarship recognizes a deserving student who has completed their freshman year in Equine Science. GPA is not considered for eligibility.

### **Big Apple Deli/Equine Repro Award**

#### **Eligible Students: Students in their senior year during internship**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This scholarship recognizes students enrolled in their senior year of the



Equine Science BT program at SUNY Morrisville (during their internship). Applicants must include an essay describing what experiences you feel have benefited you the most about the SUNY MORRISVILLE equine breeding program. Applications are available online or at the Institutional Advancement Office, Brooks Hall, or call 315.684.6020. Deadline to apply is November 15 of each year.

### **Canterbury Stables Equine Scholarship**

#### **Eligible Students: New and Continuing Students**

This scholarship is awarded to an eligible student in a SUNY Morrisville baccalaureate of technology degree in Equine Science. Priority will be given to those who can articulate the importance of horse management and care. Three references are required and may be obtained from any of the following: your trainer, coach, a horse-owner you have worked with, or a previous or current employer (not including family members). Applications must include a 300 word essay describing the importance of horse management/care and the impact it has on your sport horse's health and performance.

### **Bridget Kate Publicover Scholarship**

#### **Eligible Students: Continuing Students**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This scholarship is awarded to a student in their sophomore or junior year, majoring in equine with a GPA of 3.0 or higher. The successful candidate should be involved in extra-curricular activities or clubs, and submit an essay describing why he/she has decided to pursue a career with horses.

### **Nancy Sears Stowell Memorial Award**

#### **Eligible Students: Continuing Students**

This scholarship honors the woman who started the equine program at Morrisville in the late 1960s. It is presented annually to a student entering their senior year who has exhibited great interest, dedication, ability and desire to pursue a career in equine studies.

### **P. Daniel Stevens Memorial Scholarship**

#### **Eligible Students: New and Continuing Students**

This fund was established in 1994 by the Canterbury Riding Club and Pony Pals, two 4-H clubs from Onondaga County, with the proceeds earned from the jointly sponsored Central New York Junior/Amateur Horse Show. The scholarship is named in memory of one of the original show coordinators. This scholarship is presented to a student from the Central New York area who has previous 4-H experience and is enrolled in Natural Sciences, Agricultural, or Nursing programs.

## **Horticulture**

### **Elizabeth Bohling Horticulture Award**

#### **Eligible Students: Continuing Students**

This award is presented to a full-time returning student studying in the horticulture program: floral design, AAS. Academic merit and community service is considered.

### **John Alden Haight Memorial Scholarship for Horticulture**

#### **Eligible Students: Continuing Students**

Based on a faculty recommendation, the John Alden Haight Scholarship is presented to a second-year student who has contributed significantly to the Horticulture Department. The scholarship is funded by donations in memory of John Alden Haight and other donations to the Horticulture Department Scholarship Fund.

### **Art & Holly Hicks Scholarship**

#### **Eligible Students: Continuing Students**

This annual award was established by the SUNY Morrisville Florida Alumni Chapter to a non-traditional Horticulture or Dietetics student who shows academic achievement, citizenship, and campus involvement.

In addition to the above scholarships, contact the faculty in the Horticulture Department for information on horticulture and landscape industry scholarship.

## **Wood Products**

### **W.J. Cox Memorial Scholarship**

#### **Eligible Students: Continuing Students**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

The W.J. Cox Memorial Fund awards academic scholarships of varying amounts to students enrolled in Wood Technology majors. While all wood technology students are encouraged to apply, preference is given to students whose parents or guardians participate in some type of coverage through W.J. Cox Associates, Inc. or New York Lumbermen's Insurance Trust Fund. Applications are available online or at the Office of Institutional Advancement, Brooks Hall, 315.684.6020.

## **SCHOOL OF BUSINESS AND HOSPITALITY**

### **Accounting**

#### **The Accounting Excellence Award**

##### **Eligible Students: Continuing Students**

This annual award will be given to a part-time student pursuing a career in accounting. The applicant must maintain a grade point average of 3.0 or higher.

### **Nancy Ambrose Memorial Scholarship**

#### **Eligible Students: Continuing Students**

This scholarship is named for a former Morrisville College Foundation board member and provides one merit award per year to a second-year accounting student who meets the financial assistance requirements, has completed one year at SUNY Morrisville and holds a grade point average of 2.5.

### **R. Bruce Wise Memorial Scholarship**

#### **Eligible Students: Continuing Students**

Named for a longtime accounting professor at Morrisville, this award recognizes the achievement of a student in the accounting program. The winner must have completed the first year at Morrisville and be registered for the second year, must show scholarly ability and acceptable levels of maturity, and must not have received any other award from the Morrisville College Foundation.

## **Business**

### **Marilyn & Larry Baker Scholarship**

#### **Eligible Students: Continuing Students**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This scholarship recognizes a returning student who has completed a minimum of one semester of study in a business curriculum and has a GPA of 2.75 or higher. Priority will be given to students enrolled in the Information Technology Program.

### **Cheryl (Bowie) Church Award**

#### **Eligible Students: New**

This award will be given to an incoming full-time freshman graduating from Morrisville-Eaton Central School. A high school average of 85 or above is required. Financial need does not need to be considered. Preference is given to a student entering the School of Business & Hospitality; however all are encouraged to apply in order to be awarded.

### **James R. Owen '63 Business Scholarship**

#### **Eligible Students: Continuing Students**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This scholarship recognizes a returning student who is a full-time student in a business or accounting program with a 3.0 GPA and shows financial need. The student must demonstrate a vision for their future after they graduate from Morrisville.

## **Food Service Administration, Hospitality & Travel**

### **The Thomas V. Ciarrocchi Scholarship**

#### **Eligible Students: Continuing Students**

Given by this member of the Class of 1947, this scholarship rewards a student for academic achievement, good moral character, leadership, and interest in a food service vocation. A faculty committee chooses the annual recipient.

### **Bert Hundredmark Scholarship**

#### **Eligible Students: Continuing Students**

This scholarship was created in memory of Bert Hundredmark who passed away after 41 years of service to the college as Assistant Professor, Food Service Administration. This award is available to Hospitality Technology major students and will be chosen by the faculty of that program.

### **The NYS Hotel Motel/Matt Morgan Scholarship**

#### **Eligible Students: Continuing Students**

This scholarship, named for the college council member who endowed the fund, is awarded to a hospitality technology student based on faculty recommendation.

### **Class of 1916 Rosebrooks Scholarship Fund**

#### **Eligible Students: Continuing Students**

This fund was started by Mrs. Lounette Curnalia Rosebrooks on behalf of herself and her graduating class of 1916. This award is given annually to a student in Institutional Food Management, Restaurant Management, or Food Service Administration.

### **The Laura L. Symonds Scholarship**

#### **Eligible Students: Continuing Students**

This scholarship is selected by faculty and awarded to SUNY Morrisville food service students pursuing a career in the food service industry or a related field.

## **Office Technology**

### **Beverly & David McKay Office Technology Award**

#### **Eligible Students Continuing Students**

In addition to the general Foundation Scholarship application, an additional

application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This award is funded by a former Office Technology teacher and department chairperson and her husband. Applicants must be full-time Office Technology students with at least one full semester remaining at SUNY Morrisville, hold a GPA of 2.75, and demonstrate their written communication skills.

## **SCHOOL OF LIBERAL ARTS**

### **The Art W. & Doris Roberts Scholarship**

#### **Eligible Students: Continuing Students**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

### **The Phyllis E. Lambert Scholarship**

#### **Eligible Students: Continuing**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

The Phyllis E. Lambert Scholarship will be given annually to a full or part-time student who has completed at least one semester of higher education in the Journalism AA program. A 3.5GPA is required. A minimum audited cumulative GPA of 3.0 is required to receive the spring portion of the award. In addition to the application, an essay (500 words or more) is required describing "Why I Write."

## **SCHOOL OF SCIENCE, TECHNOLOGY & HEALTH STUDIES**

In addition to the scholarships provided by the Morrisville College Foundation, the faculty and staff of the School of Science, Technology and Health Studies provide funds to support numerous additional scholarships each year. These awards are presented at an annual honors dinner.

## **Automotive**

### **Auto Faculty Award:**

#### **Eligible Students: Continuing Students**

This award is given to a student annually (in any automotive program) by the automotive faculty and is based on academic achievement and good character. This award is in honor of former automotive faculty members Professor Emeritus William L. Burt and Professor Emeritus Roger W. Powers.

### **The Howard W. Bohling, Jr. Auto Tech Award**

#### **Eligible Students: Continuing**

This award is given in memory of Howard W. Bohling, Jr., owner and operator of Bohling's Auto Service for over 50 years. This award will be presented to a student in a general AAS, two-year automotive program, returning for his/her second year, with a minimum of a 2.5 GPA, and not in the Ford ASSET program. The student selected will exhibit a strong work ethic, commitment to the industry and shows integrity in their daily work.

## **The George Cuney Memorial Award**

### **Eligible Students: Continuing Students**

This scholarship is given annually to a student entering their second year enrolled in the automotive program. The award is in memory of the late Professor George Cuney. A minimum grade point average of 2.5 is required. Characteristics that emulate Professor George Cuney (good character, campus citizenship, campus and community involvement) will be taken into consideration.

## **The Ryan Allan Dearnaley Memorial Award**

### **Eligible Students: New Students**

This award is in memory of a former student, Ryan Allan Dearnaley, who had a sincere passion for life, incredible work ethic and great attitude. Ryan was tragically killed while helping someone in need. This award will be given to an automotive mechanic specialty freshman with a strong academic background showing financial need.

## **David Vockins Memorial Award**

### **Eligible Students: Continuing Students**

This scholarship is presented to an incoming or upper class Morrisville College student who intends to pursue a degree in an automotive technology program. The award is in memory of David Vockins, a 1967 graduate of the automotive program. The parameters for selection include merit, progress toward graduation, good character, campus citizenship and campus involvement.

# **Computer and Information Technologies**

## **Marilyn & Larry Baker Scholarship**

### **Eligible Students: Continuing Students**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This scholarship recognizes a returning student who has completed a minimum of one semester of study in a business curriculum and has a GPA of 2.75 or higher. Priority will be given to students enrolled in the Information Technology Program.

## **Robert A. Capparelli Memorial Award**

### **Eligible Students: New Students**

This annual scholarship is awarded to a graduate of Madison-Oneida BOCES who plans to enter a program in Computer Information Technology at Morrisville. Recipients must show successful completion of their high school program, demonstrate good character and citizenship, and be actively involved in their school. A minimum GPA of 2.0 is required to maintain eligibility.

# **Science**

## **Art & Holly Hicks Scholarship**

### **Eligible Students: Continuing Students**

This annual award was established by the SUNY Morrisville Florida Alumni Chapter to a non-traditional Horticulture or Dietetics student who shows academic achievement, citizenship, and campus involvement.

## **The Carolyn A. Thompson Memorial Scholarship**

### **Eligible Students: Continuing Students**

This scholarship is available to a full or part-time student who has a minimum of 30 credit hours or more at SUNY MORRISVILLE with a major in the School of Science & Technology holding at least a 2.5 GPA, who is currently studying sciences (particularly biology and/or chemistry) who demonstrates outstanding personal character both in and out of the classroom. Students may apply by writing a letter of application describing how they meet the above criteria, or written nominations may also be made by faculty members.

## **Crawford Scholarship**

### **Eligible Students: Continuing Students**

This scholarship is given annually to an outstanding returning student majoring in programs offered by the School of Science, Technology, and Health Studies which include the traditional sciences: Liberal Arts – Biology; Health Related Studies; Sports Nutrition and Fitness Management; and Human Performance and Health Promotion. Selection for the scholarship is done by the School Dean and is based on academic performance.

## **Madge Snyder Biology Award**

### **Eligible Students: Continuing Students**

One merit award is given annually to a returning student in good academic standing who is majoring in one of the following: Biology, Health-Related Studies, Sports Nutrition and Fitness Management or Human Performance and Health Promotion. Evidence of good character and solid citizenship is also recognized by this award and is selected by a faculty committee.

## **Food Science & Technology Award**

### **Eligible Students: New and Continuing Students**

This fund is intended to encourage students to enroll in, or to assist students already enrolled in, one of the programs of study within the traditional sciences (biology and chemistry) with their educational expenses. The award recognizes academic achievement, financial need, interest in a career in the food processing industry, and county of residence (preference given to Madison and Monroe county residents). Returning seniors and incoming freshmen are eligible for the award.

# **Engineering Technology**

## **Malcolm B. Galbreath Scholarship**

### **Eligible Students: Continuing Students**

This scholarship is given annually to a senior in the School of Science, Technology & Health Studies. The award is in honor of Malcolm B. Galbreath, the third president of SUNY Morrisville. Under his leadership, the Engineering Departments were started and later incorporated into the School of Science, Technology & Health Studies. Preference is given to a student enrolled in the traditional engineering or sciences area who plans to continue his or her education at a baccalaureate level.

## **Douglas Scholarship**

### **Eligible Students: Continuing Students**

Funded by former Professors Nancy and Henry Douglas, this scholarship is given annually to a senior in Mechanical Engineering Technology who shows academic excellence. Preference is given to those who complete two semesters of physics and plan to continue their education at a baccalaureate level. Good character, campus citizenship, and campus and community involvement will also be considered in the selection process.

## **Tony Patane Award**

### **Eligible Students: Continuing Students**

This is awarded annually to a returning African-American or Latino student enrolled in the Engineering Technology curriculum. Eligible students are identified by the Dean and recommended for a personal interview. The award is given during the spring semester.

# **Nursing**

## **Chesebro Ponds Unilever Nursing Scholarship**

### **Eligible Students: New and Continuing Students**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

## **Distinguished Nursing Student Award**

### **Eligible Students: Graduating Students**

This annual award (amount varies) is given to a graduating senior enrolled in the nursing curriculum. Criteria for selection include professional attributes and leadership abilities as well as commitment to lifelong learning. Selection will be made by nursing faculty.

## **Homer & Ilda Abbott Nursing Scholarship**

### **Eligible Students: Continuing Students**

This scholarship is available to returning full-time students in the Nursing program with a GPA of 3.0 or higher showing a financial need. Applicants are to be from a rural town or village and be dedicated to nursing and health related activities.

## **Roger W. Follett Foundation**

### **Nursing Scholarships**

#### **Eligible Students: Continuing Students**

Founded in 1995, the Roger W. Follett Foundation has been contributing funds to the Morrisville College Foundation for scholarships which are to be awarded to students from Chenango County who are enrolled in the nursing program at Morrisville State College (both Morrisville and Norwich campus).

## **Elizabeth Hill Award**

### **Eligible Students: Continuing Students**

This award is presented to a returning nursing student who is a single parent pursuing a degree in the health professions with a GPA of 2.5 or higher

## **Mary E. Jenks Award**

### **Eligible Students: Continuing Students**

This award is named for the 1971 graduate of SUNY Morrisville who, as an adult student, despite having a vision impairment, built a rewarding career in the health care field. The award is given annually to a student who has completed the two-year program at SUNY Morrisville, has overcome hardships to realize the goal of the nursing degree, and has demonstrated outstanding attitude and achievement in the program.

## **Terri M. Spiegel, RN, MS Scholarship**

### **Eligible Students: Continuing**

In addition to the general Foundation Scholarship application, an additional application specific to this scholarship is also required and can be found online at [www.morrisville.edu](http://www.morrisville.edu), scholarships and awards, view all Foundation scholarships, or by calling the Office of Institutional Advancement at 315.684.6020.

This scholarship will be given to a full-time student in the second year of the nursing program. Applications will be reviewed by a committee (recommendations will come from nursing faculty based on criteria). The student must maintain a 3.0 GPA to receive the second semester funding. This scholarship is to be applied for annually.

## **P. Daniel Stevens Memorial Scholarship**

### **Eligible Students: New and Continuing Students**

This fund was established in 1994 by the Canterbury Riding Club and Pony Pals, two 4-H clubs from Onondaga County, with the proceeds earned from the jointly sponsored Central New York Junior/Amateur Horse Show. The scholarship is named in memory of one of the original show coordinators. This scholarship is presented to a student from the Central New York area who has previous 4-H experience and is enrolled in Natural Sciences, Agricultural, or Nursing programs.

## **Diana Wallace Award**

### **Eligible Students: New and Continuing Students**

This award will be given to a student in the nursing program who shows merit, good character and has a solid high school academic standing. Preference will be given to a graduate of Baker High School or from Onondaga County.

# **NORWICH CAMPUS SCHOLARSHIPS**

## **Adelbert L. "Del" Button Scholarship**

### **Eligible Students: New Students**

This scholarship was established to provide opportunities for area high school or home school students to accelerate their education by taking college classes at SUNY MORRISVILLE, to take courses not available at their high school, and to enable students to build a college transcript and accumulate credit towards a college degree. Qualified students may take either day or evening classes at SUNY MORRISVILLE's Norwich Campus/Roger Follett Hall. This scholarship provides 50% tuition (one half of tuition cost) for up to 4 credits per semester or term.

## **Gail Fish Memorial Award**

### **Eligible Students: Continuing Students**

This award recognizes a Norwich Campus student enrolled in their second year of nursing, with a GPA of 2.75 or higher. The student must show academic merit, interest and work experience in their field.

## **Polly Hoag Scholarship**

### **Eligible Students: New & Continuing Students**

This MCF scholarship, established through the bequest of former student Polly Hoag, provides one award per year to a non-traditional student who best exemplifies the values and pursuit of lifelong learning attending the Norwich Campus. Student must maintain a 2.0 GPA.

## **Raymond Foundation Scholarship**

### **Eligible Students: New & Continuing Students**

This annual MCF scholarship is awarded to incoming freshmen whose high school grades place them among the top 5% of the incoming freshmen class at the Norwich Campus. To be eligible, students must have graduated from a Chenango County High School and be enrolled full time in a degree program at the Norwich Campus. A 3.0 grade point average (GPA) and satisfactory academic progress are required to maintain the scholarship for the spring semester. The award will cover the traditional academic year and be utilized for academic pursuits in the form of tuition, fees and/or books.

## **R.C. Smith Foundation Award**

### **Eligible Students: Continuing Students**

This award is available to non-traditional students, part-time or full-time, with a GPA of at least 2.0, studying either nursing, or business administration, or accounting, at SUNY Morrisville Norwich Campus; applications are available at the administration office in Roger Follett Hall and must be completed with a 750 word essay (approximately) answering the following question: As a non-traditional student, what impact would a financial award from The R.C. Smith Foundation have on your ability to pursue an SUNY MORRISVILLE degree? Priority will go to 1) Chenango County residents or graduates of Chenango County schools. Funding may be used for tuition, fees, books, uniforms, or child care; 2) students demonstrating a financial need. Winners will be invited to lunch to meet the trustees of the R.C. Smith Foundation.

# **MORRISVILLE AUXILIARY CORPORATION AWARDS**

## **Austin Sawyer Scholarship**

### **Eligible Students: New & Continuing Students**

A scholarship to SUNY Morrisville will be awarded to students that are the child, stepchild or spouse of a full or part-time MAC employee (excluded temporary, college and high school part-time students). The criteria used in awarding the scholarship will be high school rank in class, a recommendation from the high school principal, teacher or advisor and a personal interview with representatives of the Board of Directors. Optionally, standardized test scores (SAT/ACT) may be used as a tiebreaker. The scholarship will be awarded for one year with one half the amounts distributed each



semester. The scholarship will be renewed once, providing the student has maintained a minimum grade point average of 2.0 while enrolled for a minimum of twelve (12) credits per semester during the year. Thus one half of the annual income will be awarded each year to an entering student and to a returning student. Contact the MAC Human Resources Department for additional information.

### **Calvin Dunkle Bookstore Awards**

#### **Eligible Students: Current and Continuing Students**

The Morrisville Auxiliary Corporation offers bookstore credits, known as Calvin Dunkle Bookstore Awards, to both full- and part-time students. Students with a minimum grade point average of 2.0 are eligible to apply. Scholarship recipients are selected by the MAC Awards Committee. Criteria for the awards include other scholarship information, college or public service and citizenship. Applications can be obtained from the Morrisville Auxiliary Corporation, 315.684.6047.

### **The Child Care Scholarship Award**

#### **Eligible Students: New and Continuing Students**

Awarded to a SUNY Morrisville student that has a child enrolled at The Children's Center, students are selected based on a set of criteria that include household income, family size, academic transcripts and course schedule. The application process is handled by the Director of the Children's Center and the final selection is made by the MAC Board of Directors.

### **The ThinkPad Scholarship**

#### **Eligible Students: First Year Students**

The ThinkPad Scholarship is offered at the end of the fall semester to a first year student with at least a B average in high school and an overall GPA at SUNY Morrisville of 3.3 or higher. The winner is chosen by the MAC Awards Committee, and receives a free /Lenovo ThinkPad laptop. If the student already has a Lenovo ThinkPad laptop, their account will be credited and marked paid in full. Applications can be obtained from the Technology Center in Hamilton Hall at 315.684.6422.

## **MILITARY SCHOLARSHIPS & OTHER OPPORTUNITIES**

### **Scholarships & Aid**

- Air Force Aid Society: [www.afas.org](http://www.afas.org)
- Army Relief: [www.aerhq.org](http://www.aerhq.org)
- Coast Guard Mutual Aid: [www.cgmahq.org](http://www.cgmahq.org)
- Navy Marine Corps Relief Society: [www.nmcrrs.org](http://www.nmcrrs.org)

### **ROTC Information**

- Air Force: <http://www.afoats.af.mil/AFROTC/>
- Army: [www.rotc.monroe.army.mil](http://www.rotc.monroe.army.mil)
- Coast Guard: [www.cga.edu](http://www.cga.edu)

### **Military Academies**

- Air Force: [www.usafa.af.mil](http://www.usafa.af.mil)
- Army: [www.usma.edu](http://www.usma.edu)
- Coast Guard: [www.cga.edu](http://www.cga.edu)

### **SPENDonLIFE Scholarship Program**

The SPENDonLIFE College Scholarship Program offers financial assistance for college students who are unable to obtain student loans due to the recent credit crunch or their personal credit history.

- Awards range from \$500 to \$5,000 a year.
- Applicants must be enrolled in full-time study.

## **OTHER SCHOLARSHIP RESOURCES**

- [www.collegeboard.org](http://www.collegeboard.org)
- [www.collegeboard.org/clep](http://www.collegeboard.org/clep)
- [www.collegeview.com](http://www.collegeview.com)
- [www.fastweb.com](http://www.fastweb.com)
- [www.feea.org](http://www.feea.org)
- [www.finaid.com](http://www.finaid.com)
- [www.fisherhouse.org](http://www.fisherhouse.org)
- [www.military.com](http://www.military.com)
- [www.schoolsoup.com](http://www.schoolsoup.com)

### **World Trade Center Memorial Scholarship**

This scholarship is awarded to students throughout New York State who are enrolled at SUNY campuses, community colleges and statutory campuses, who meet eligibility requirements. Go to [www.hesc.com](http://www.hesc.com)



# ACADEMIC INFORMATION

## Requirements for Graduation

To graduate, a degree candidate must complete required course work within the program chosen at the time of matriculation into the program and must meet the minimum total number of semester hours required for the relevant degree.

Each program curriculum listed in the college catalog includes both the general and technical components necessary for completion of degree requirements.

Certain minimum requirements which may differ from program to program must be met in the liberal arts and sciences. Please refer to specific programs for more information.

## Graduation Dates

- SUNY Morrisville will graduate students and issue diplomas in May, August and December.
- Students graduating from a program of study must be enrolled in that curriculum by the end of the administrative add/drop period in the semester they plan to graduate.
- Students receiving an "I" grade on a course required for graduation are eligible to graduate in the semester the "I" changes to a grade.
- Students using transfer credits to complete degree requirements shall be graduated and issued diplomas according to the following schedule:
  - Transcripts received on campus between September 16 and January 15 will result in a December degree.
  - Transcripts received on campus between January 16 and June 15 will result in a May degree.
  - Transcripts received on campus between June 16 and September 15 will result in an August degree.

## Scholarship Standards-Marking

- A signifies a superior knowledge of a body of material, its function and interpretation.
- B signifies an above-average knowledge of a body of material and its function.
- C an average knowledge of a body of material
- D a minimum knowledge of a body of material
- F failure to attain a minimum knowledge of a body of material
- X course dropped
- W withdrawal from college
- WP withdrawal from college - passing
- WF withdrawal from college - failing
- P pass
- NP not pass
- I incomplete (This rating indicates that the student has not completed all of the work of the course and becomes an automatic F unless completed within the following semester).
- S satisfactory
- NR Grade not reported by faculty

## Grade Points

- A 4 for each credit hour
- A- 3.67 for each credit hour

- B+ 3.33 for each credit hour
- B 3 for each credit hour
- B- 2.67 for each credit hour
- C+ 2.33 for each credit hour
- C 2 for each credit hour
- C- 1.67 for each credit hour
- D+ 1.33 for each credit hour
- D 1 for each credit hour
- F 0 for each credit hour

Grades X, W, I, P, NP, NR, or S do not yield grade points.

## Grading Mode

Grade mode codes may be found two spaces to the right of the grade.

- P = Pass/Not Pass mode
- T = Transfer Course mode
- I = Imputed Credit mode
- S = Satisfactory/Fail mode
- N = Normal Grading mode (if not labeled, assume unless another mode is specified)

Imputed credit courses are not counted in the grade point average (GPA) or toward graduation requirements. Pass/Not Pass, Satisfactory/Fail, and Transfer courses are not included in the GPA calculation.

The "E" code in the third hand column to the right of the course title means to Exclude the course credit hours from the hours earned and the grade point calculation. The "E" may have been entered because a course has been repeated and the higher grades is marked with an asterisk. An "E" may be that a course has had another course accepted "in lieu" of it. The "E" may also mean that the course was not acceptable to the new major when the student changed major.

## Grade Point Average

The grade point average is determined by multiplying the point rating for each letter grade by the number of credit hours for the course, adding the results and dividing the total by the number of credit hours attempted. A student must earn a cumulative average of 2.0 in all work toward a degree to graduate.

## President's and Dean's List

Students who earn a semester grade point average of 4.0 and complete a minimum of 12 semester hours of course work will be placed on the President's List.

Students who earn a minimum semester grade point average of 3.0 and complete a minimum of 12 semester hours of course work will be placed on the Dean's List.

The 12 semester hours of course work must be graded A-F and not include imputed credit courses or courses graded P/NP or S/F.

- Grades of "I" (incomplete), "NR" (not recorded) or "F" (failing) in courses graded A-F, and A-F imputed and P/NP or S/F, will disqualify a student from the list.
- A grade of "A" in all courses graded A-F, and A-F imputed is necessary to qualify a student for the President's List.

- Part time students are eligible after each 12 credit hours accumulated.

An “I” or “NR” grade which is subsequently changed may qualify the student for Dean’s List status. At this time, a retroactive Dean’s list letter will be issued by the Dean’s office upon receipt of a new transcript for the affected student from the Registrar’s Office.

An “I” or “NR” grade which is subsequently changed may qualify the student for President’s List status. A retroactive President’s list letter will be issued by the President’s Office upon receipt of a new transcript for the affected student. The transcript is to be forwarded to the President’s office by the Dean’s office upon receipt from the Registrar.

## ACADEMIC HONORS DESIGNATION

SUNY Morrisville graduates will receive an honors designation on their diploma for recognition of superior academic achievement with the following cumulative GPA ranges.

Recognition of baccalaureate graduates is given using the following designations:

- Summa cum laude (3.80 to 4.00 GPA)
- Magna cum laude (3.65 to 3.79 GPA)
- Cum laude (3.50 to 3.64 GPA)

Recognition of associate graduates is given using the following designations:

- Highest honors (3.80 to 4.00 GPA)
- High honors (3.65 to 3.79 GPA)
- Honors (3.50 to 3.64 GPA)

## Withdrawal from College

Students may withdraw from the college through the last day of classes.

- Students are not allowed to withdraw from the current semester after the final day of classes.
- Student withdrawing prior to the drop deadline for courses will receive a grade of W for all courses.
- Students withdrawing after the drop deadline for a course will receive grades of WP (withdraw passing) or WF (withdraw failing) as assigned by the faculty.
- Any student withdrawing after the 10th week of the semester will be unable to attend Morrisville the following semester unless the appropriate academic dean approves readmission.

## Awarding of Dual Major/Dual Degree

SUNY Morrisville will award dual degrees if two degrees of the same type are sought, i.e. two A.S. degrees, then one diploma with two majors will be granted. If two degrees of different types are sought, i.e. and A.A. degree and an A.S. degree, then two separate diplomas will be granted, assuming in both cases that all program requirements are met in both areas. Conferral of a second degree “should be reserved as a means of recognizing competency in two essentially different areas” (New York State Education Department, September 10, 1971).

- This policy applies to the associate level only.
- More than four semesters of work must be presented.
- The cumulative number of semester credit hours must be 80 or greater.
- All program requirements, whether for a dual degree or a dual major, must be satisfactorily met, as approved by the department chair or

program coordinator in each program area.

- Students must meet SUNY Morrisville residency requirements. In addition, certain programs may require students to take certain courses in residence at Morrisville to satisfy program requirements
- Dual degree/major agreements must be submitted no later than the beginning of the student’s fourth semester. (Or equivalently, the completion of 48 credits).
- Dual degrees/majors will require approval of the relevant faculty, Deans and the Vice President for Academic Affairs. Requests for approval should be made on the appropriate Dual Degree/Major Agreement form.
- Individual Studies may not be used as a dual degree or a dual major.

## Additional Degree

The awarding of an additional, consecutive degree is allowed provided that the significant requirements for both degrees have been satisfied in each program and that a significant amount of course work has been completed beyond that of the initial degree. Without being overly specific, a significant amount of additional course work should be 30 or more credit hours taken at Morrisville which, in most instances, requires an additional year of study.

- This policy applies to the awarding of associate degrees only.
- This policy applies to students that wish to pursue an additional, consecutive degree. In instances in which a student wishes to pursue a dual degree/major concurrently, Policy #6103 applies.
- An additional degree may be of differing types (i.e. an A.A.S., A.S., A.A., etc.) or may be differing majors of the same degree type.
- To obtain an additional degree, the student must comply with Morrisville’s statute of limitations on degree completion. That is, degree requirements may be satisfied by taking courses within a seven (7) year period after initial matriculation at Morrisville. The courses that are to be applied to the degree requirements of the additional degree shall have prior approval by the appropriate Academic Dean.
- A student not completing the requirements for an additional degree within the seven-year period may have to enroll in additional course work due to changes in the curriculum. This determination shall be made by the Academic Dean in consultation with appropriate faculty.
- The awarding of an additional, consecutive degree is allowed provided that the significant requirements for both degrees have been satisfied in each program and that a significant amount of course work has been completed beyond that of the initial degree. Without being overly specific, a significant amount of additional course work should be 30 or more credit hours taken at Morrisville which, in most instances, requires an additional year of study.

## Residency Requirement – Associate Degree

All students in two-year programs shall complete a minimum of 30 credit hours at Morrisville.

- The following types of successfully earned credits shall contribute toward a student’s residency requirement:
  - Any Morrisville credits earned from courses taught on- or off-campus
  - Any distance learning courses originating or received at Morrisville

- The following types of credits will not contribute toward a student's residency requirement:

- Credits transferred from another institution
- Credit awarded for successful completion of a course examination

- Specific program majors may require up to 15 of the 30 credits in selected Morrisville courses

## Residency Requirement – Bachelor Degree

All students shall complete 30 credits of upper-division course work at Morrisville.

- The following types of successfully earned credits shall contribute toward a student's residency requirement:

- Any Morrisville credits earned from courses taught on- or off-campus
- Any distance learning courses originating or received at Morrisville

- The following types of credits will not contribute toward a student's residency requirement:

- Credits transferred from another institution
- Credit awarded for successful completion of a course examination

- Upper division courses include 300 to 400 level designated courses

## Statute of Limitations on Degree Completion

Return After an Absence from the College: Any student may return to the college to satisfy degree requirements within a seven-year period after matriculation in a degree program. The student may need to enroll or re-enroll in additional course work to complete degree requirements and must satisfy residency requirements set forth in policies #6201 and/or #6202. In particular, in the event that the requirements for a program change while a student is separated from the college, the student may be required to enroll in course work that satisfies the new program requirements, subject to the approval of the Academic Dean after consultation with the appropriate faculty.

Transfer Courses from Another College: A student may satisfy degree requirements at SUNY Morrisville by taking courses at another college and transferring those credits back to Morrisville within a seven (7) year period following matriculation at this college (subject to residency requirements). The courses to be transferred shall have prior approval of the appropriate academic dean. Further, any student not completing his/her prescribed degree program within seven years after matriculation at SUNY Morrisville may need to enroll or re-enroll in additional course work because of changes in the curriculum, subject to the approval of the Academic Dean after consultation with the appropriate faculty.

## Athletic & Music Credit

A student may earn physical education credit by participating in the intercollegiate athletic program at SUNY Morrisville. Students are scheduled into these course sections by the Registrar's Office from lists submitted by the director of athletics at the beginning of each term. All physical education courses will be graded S (satisfactory) or F (failing) and will not be calculated in the cumulative grade point average.

A maximum of four (4) hours of physical education credits can be applied towards degree requirements.

A student may also earn credit for participating in a music ensemble. The ensemble director shall provide a list of ensemble participants to the registrar at the beginning of each term. A student must be scheduled into a different ensemble course each term. A student cannot receive credit more than once for the same course.

The Registrar's Office shall submit a list to each dean and faculty advisor including information regarding credit load and conditional semester status prior to the athletic and music credits being added to the student's schedules.

## Transfer Credit

Transfer credit will be granted on a course-for-course basis. Transfer credits shall not be computed in the Morrisville grade point average. Students transferring between schools within the college transfer grades and grade points for courses which become part of the overall average.

## Special Projects

Students taking "Special Project" courses may earn up to three credit hours for courses designated as Special Projects in their associate degree and an additional three hours credit for Special Projects in their baccalaureate program.

A total of six special project credits may be awarded in a baccalaureate program with three credits coming at the lower division level and three from the upper division level. Students at the associate's level will not be given credit for upper division level Special Projects.

## Student Standing

Student "academic standing" shall be based on the following credit hour accumulation levels:

- First year: 0-30 credit hours
- Second year: 31-60 credit hours
- Third year: 61-90 credit hours
- Fourth year: 91 - above credit hours

Student "financial aid standing" shall be based on the following credit hour accumulation levels:

- First year: 0-29 credit hours
- Second year: 30-59 credit hours
- Third year: 60-89 credit hours
- Fourth year: 90- above credit hours Dropping Courses

A student may add or delete courses during the first four class days of each semester without prejudice. Changes after the fourth day of classes will be subject to a fee. A course may be dropped at any time by the last day of the tenth week of classes. A course drop form must be obtained from the registrar's office or any school office and all requirements stipulated thereon must be met in order for the course to be officially dropped. The student transcript will then show a grade of "X," signifying that the student dropped the course. "X" grades are not included in grade point average calculations.

## Suitable Academic Progress

It is important that students make adequate progress toward the completion of their degrees. Inadequate progress notifications may be triggered by failing to maintain at least 12 credits (for full-time student), dropping a class that is required by the major, failing a class that is required by the major, or not achieving a required minimum grade in a class that is required by the major. A part-time student will be subject to the same review as each 12 hours is completed. Students may not be allowed to continue in a specific academic program if prerequisite courses are not satisfactorily completed.

In the event that a student does not continue to make any progress for any of these reasons, they will be notified by their academic dean. This notification does not carry any direct consequences from the college, but lack of progress may affect a student's financial aid or scholarship awards. Additionally, some programs may carry stricter penalties for students who are not progressing in their major and students will be made aware of these.

### Academic Standing

Student academic standing will be evaluated at the end of each semester. A student may be in good standing, may receive an academic warning, may be placed on academic probation prior to dismissal, or may be dismissed from the college, depending on their GPA.

**A student maintains good academic standing** with a cumulative GPA of at least 2.0. Any student with a cumulative or semester grade point average of less than 2.0 may be issued an academic warning; placed on academic probation; or dismissed from the college.

**Academic Warning** is a designated academic status for a student who is not in good academic standing as a result of not meeting the GPA requirements.

**Academic Probation** is a contractual arrangement. Students must review and sign a contract outlining the features of their major program and their responsibilities within it. Failure to successfully complete the terms of the contract may result in academic dismissal.

**Academic Dismissal** is dismissal from the college due to the student's inability to maintain good academic standing or meet the terms of an Academic Probation contractual arrangement. Student have the right to appeal an academic dismissal to request reinstatement.

Students with questions about their academic standing should contact their academic advisor and/or academic dean.

### Early Dismissal for Poor Academic Progress

**Early Academic Dismissal:** A student may be dismissed from the campus without refund if he or she has poor academic progress prior to the end of the semester.

Poor academic progress is defined by any or all of the following criteria:

- Having an Interim GPA of 0.5 or less.
- Failure to meet the contractual terms set as conditions of entrance or continuation.
- Excessive absences.

### Class Attendance

Students are expected to attend all scheduled classes and laboratories. However, special circumstances such as illness, religious holidays, travel difficulties, family emergencies and participation in college sponsored events may make certain absences unavoidable. In such instances, students should notify instructors of these special circumstances.

Each instructor will distribute an attendance policy statement, defining excessive absences, the first week of classes each semester. These will be approved by the appropriate Dean to assure no conflict between individual attendance policies and college policy; copies will be on file in the instructor's school office. Students are responsible for understanding the attendance policy (including procedures for making up missed work) of each of their instructors.

When, in the opinion of the instructor, absences have placed a student in potential academic jeopardy, the instructor will notify the student's dean, who will issue a warning to the student. An instructor may initiate discussion to determine the advisability of the student's dropping or continuing the course in which excessive absences have occurred.

A faculty member can suspend a student from class or laboratory for disruptive behavior, that is, for actions which interfere with the orderly conduct of the session or which threaten bodily harm to others. All such cases must be referred immediately to the student's dean with a full report. If the student cannot be reinstated in the class or laboratory within one week of the day of suspension, the case must be referred to the Vice President for Academic Affairs for resolution.

Extended, unavoidable absences will usually result in student withdrawal from college. However, in unusual situations where the student indicates a desire and an ability to complete the course work even though away from campus, she/he may petition her/his dean for permission to continue academic work. The dean will then consult with the student's instructors and, on the basis of these consultations, advise the student to withdraw from college, to drop courses, or to finish courses under the supervision of consenting instructors.

Although regular class attendance will not guarantee passing grades, irregular attendance will usually have an adverse effect upon them. Because final student evaluation is based upon measurable academic achievement, however, instructors will not lower final grades solely on the basis of absences.

### Students Unable Because of Religious Beliefs to Attend Classes on Certain Days

As required by Section 224-A New York Education Law:

1. No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he/she is unable, because of his/her religious beliefs, to attend classes or to participate in any examination, study or work requirements on a particular day or days.
2. Any student in an institute of higher education who is unable, because of his religious beliefs, to attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.
3. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school, because of his/her religious beliefs, an equivalent opportunity to make up any examination, study or work requirements which he/she may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.
4. If classes, examinations, study or work requirements are held on Friday after 4 p.m. or on Saturday, similar or makeup classes, examinations, study or work requirements shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, examinations, study or work requirements held on other days.
5. In effectuating the provisions of this section, it shall be the duty of the faculty and of the administration officials of each institution of higher education and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student because of his availing himself of the provisions of this section.
6. Any student, who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of his rights under this section.
7. It shall be the responsibility of the administrative officials of each institution of higher education to give written notice to students of their rights under this section, informing them that each student who is absent from school, because of his or her religious beliefs, must be given an equivalent opportunity to register for classes or make up any examination, study or work requirements which he or she may have missed because

of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to such student such equivalent opportunity.

8. As used in this section, the term “institution of higher education” shall mean schools under the control of the Board of Trustees of the State University of New York or of the Board of Higher Education of the City of New York or any community college.

### Academic Advisement

Academic advising is an integral and necessary part of the higher education process. Each student is assigned a faculty or professional advisor who will assist with any academic problems and monitor student progress toward meeting graduation requirements.

The academic advisor represents the first line in a network of support services available to the students at SUNY Morrisville.

### Permission to Carry Extra Course

Any student who wishes to carry more than 18 credit hours during any one semester must receive prior approval from the school dean. The student should have demonstrated ability to achieve better than minimal (2.0) average work with no failing grade in the previous semester.

### Pass/Not Pass Option

A student may select one course of 4 credit hours or less in which to be graded on a Pass/Not Pass basis each semester. A “P” grade will earn credits toward the graduation requirements, an “NP” will not. Neither grade will yield grade points to be calculated in the cumulative grade point average. To exercise the option, a student must obtain a Pass/Not Pass Option form from the school office, fill out, sign and submit it to the advisor or school dean before the 20th day of instruction.

### Transcript Requests

Official transcripts may be ordered securely online 24 hours/7 days a week using TranscriptsPlus, services provided by Credential Solutions. The cost for each transcript is \$10 per transcript and must be paid by using a credit or debit card online. Additional fees may apply depending on delivery option. Holds on a student record may prevent transcript orders from being processed.

Current students with access to **web for students** can order easily through their **web for student's** portal. Alumni or recent students can order using the public order form on the registrar's website by clicking on the TranscriptsPlus logo. You may check the status of your order online at any time. Support for online ordering is available by calling Credentials Inc. at 1-847-716-3005 or by calling the Registrar's Office directly at 315-684-6066.

Unofficial transcripts are available by logging into **Web for Student** online. If you no longer have access to this portal, please contact the Registrar's Office directly.

### Academic Honesty

Academic honesty promotes continued academic and occupational success. Maintenance of academic honesty and quality education is the responsibility of both faculty and students. Any written assignment submitted by a student must be original authorship. Representation of another's work as his/her own shall constitute plagiarism. Any charge of plagiarism must be

substantiated by a direct correlation in wording and organization between the original and plagiarized copy.

All examinations must be taken according to prescribed procedure, as determined by the faculty member in charge. Any form of unauthorized written material used by a student or evident on his/her person during or directly following an examination shall be deemed a violation of academic honesty. Unauthorized correspondence between students during any examination or preparation of submitted work, which can be substantiated by physical proof or eyewitness verification, shall be considered an infraction of the code and shall subject involved parties to corrective procedures.

### Grievance Procedure

A student may appeal an academic decision which involved any alleged violation of college rule, regulation, or policy; alleged unfair or inequitable treatment; alleged or prejudiced, capricious or unjust evaluation. Information on the steps to follow may be obtained in school offices or in the *Student Handbook*.

### Unit of Academic Credit - General Education Requirements - SUNY General Education

The SUNY General Education Requirement (SUNY-GER) enables students to acquire knowledge and skills that are useful and important for all educated persons, regardless of their jobs or professions. (SUNY Board of Trustees Resolution, January 2010).

Students in baccalaureate degrees, Associate of Arts and Associate of Science degrees must complete 30 credit hours in 7 of 10 categories below.

- Basic Communication and Mathematics are required.
- Basic Communication (required)
- Mathematics (required)
- American History
- The Arts
- Foreign Language
- Humanities
- Natural Science
- Other World Civilization
- Social Science
- Western Civilization

A credit is a unit of measure assigned to courses or course-equivalent learning. One college credit is based on the learning expected from the equivalent of 15 50-minute periods of classroom instruction, with credits for such things as laboratory instruction, internships, and clinical experience, determined by the institution based on the proportion of direct instruction to the laboratory exercise, internship hours, or clinical practice hours.

### Elective Courses

Electives are courses not specifically required within a student's program, but which may be selected from general studies or from the student's field of interest subject to the approval of the advisor.

### Curriculum/Course Changes

The college reserves the right to make curriculum changes at any time. Courses listed may be withdrawn without notice. Other changes in courses, lecture and laboratory hours, times for and duration of class, lecture and laboratory meetings may be made when it is in the interest of the college to do so.



In addition to completing the SUNY General Education Requirements some degrees require additional general education credits in the Liberal Arts and Sciences (LAS).

Degree	SUNY GER Credits	Additional LAS Credits	Total General Education credits
Associate in Applied Science		20	20
Associate in Arts	30	15	45
Associate in Science	30		30
Bachelor of Technology	30		30
Bachelor of Business Administration	30		30
Bachelor of Science	30	30	60

The following courses satisfy the SUNY General Education Requirements and/or Liberal Arts and Sciences Requirements

### MORRISVILLE STATE COLLEGE GENERAL EDUCATION/LIBERAL ARTS AND SCIENCES COURSE LIST

#### BASIC COMMUNICATION

COMM 111 Introduction to Speech  
 COMM 300 Visual Communication  
 COMP 101 Composition & Research  
 COMP 110 Technical Communication  
 COMP 220 Writing in the Disciplines  
 COMP 221 Advanced Composition & Research  
 COMP 310 Advanced Technical Communication

#### SUNY GER

GBC  
 GBC  
 GBC  
 GBC  
 GBC  
 GBC  
 GBC

#### MATHEMATICS

MATH 102 Intermediate Algebra with Trigonometry  
 MATH 103 College Algebra with Trigonometry  
 MATH 123 Elementary Statistics  
 MATH 141 Statistics  
 MATH 145 Discrete Mathematics  
 MATH 147 Selected Topics in Precalculus  
 MATH 149 Elementary Linear Algebra  
 MATH 151 General Calculus A  
 MATH 152 General Calculus B  
 MATH 153 Business Calculus  
 MATH 161 Calculus I  
 MATH 162 Calculus II  
 MATH 261 Calculus III  
 MATH 262 Differential Equations

#### SUNY GER

GM  
 GM  
 GM  
 GM  
 GM  
 GM  
 GM  
 GM  
 GM  
 GM  
 GM  
 GM  
 GM

**AMERICAN HISTORY**

HIST 101 United States History to 1800	<b>SUNY</b>
HIST 102 United States History from 1800 to 1900	<b>GER</b>
HIST 103 United States History from 1900 to the Present	GAH
HIST 220 African American History	GAH
HIST 225 Women in the United States	GAH
HIST 320 History of New York State	GAH

**ARTS**

ARCH 101 Architectural Graphic Communications w/Lab	<b>SUNY</b>
ARCH 141 Architectural Design I w/Lab	<b>GER</b>
ARCH 142 Architectural Design II w/Lab	GA
ARCH 243 Architectural Design III w/Lab	GA
ARCH 244 Architectural Design IV w/Lab	GA
ART 110 Introduction to the Visual Arts	GA
ART 120 Introduction to Drawing	GA
ART 121 Introduction to Painting	GA
ART 131 Introduction to Photography	GA
COMP 230 Creative Writing: Short Story	GA
COMP 231 Creative Writing: Poetry	GA
HORT 403 Planting Design	GA
HUMN 210 The Film Experience	GA
MUSI 101 Introduction to Music & Art	GA
MUSI 102 History of Jazz	GA
MUSI 105 Experiencing Music	GA
MUSI 150 Ensemble I	GA
MUSI 155 Ensemble II	GA
MUSI 160 Ensemble III	GA
MUSI 165 Ensemble IV	GA
THEA 124 Introduction to Theater	GA
THEA 125 Play Production	GA
THEA 150 Theater Production Lab	GA

**FOREIGN LANGUAGE**

AMSL 101 American Sign Language I	<b>SUNY</b>
AMSL 102 American Sign Language II	<b>GER</b>
SPAN 101 Beginning College Spanish I	GFL
	GFL

SPAN 102 Beginning College Spanish II	GFL
SPAN 125 Spanish for Heritage Speakers	GFL
SPAN 201 Intermediate College Spanish I	GFL
SPAN 202 Intermediate College Spanish II	GFL

## **HUMANITIES**

COMM 121 Theories of Interpersonal Communication	<b>SUNY</b> <b>GER</b> GH
COMP 102 Writing about Literature	GH
HUMN 230 Rural Studies	GH
LITR 203 American Literature to 1900	GH
LITR 204 American Literature 1900 to the Present	GH
LITR 205 English Literature to 1800	GH
LITR 206 English Literature 1800 to the Present	GH
LITR 207 Western World Literature	GH
LITR 208 Eastern World Literature	GH
LITR 211 Black American Writers	GH
LITR 221 Literature of Gender	GH
LITR 231 Modern Literature	GH
LITR 232 Major American Novels	GH
LITR 233 Literature & the Environment	GH
LITR 234 Aspects of Contemporary Literature	GH
LITR 342 Science Fiction	GH
MUSI 102 History of Jazz	GH
PHIL 201 Introduction to Philosophy: The Basic Issues	GH
PHIL 211 Modern Ethics	GH
PHIL 311 Professional Ethics	GH
STS 401 Advanced Topics in STS	GH
STS 411 Senior Seminar in STS	GH

## **NATURAL SCIENCE**

AGEN 161 Basic Hydraulics	<b>SUNY</b> <b>GER</b> GNS
AGRO 105 Soil & Water Conservation	GNS
AGRO 110 Soil Science	GNS
AGRO 215 Soil Fertility & Fertilizers	GNS
AGSC 132 Computer Applications in Precision Farming 1	GNS
ASTR 101 Solar Astronomy	GNS
ASTR 110 Stellar Astronomy	GNS
BIOL 101 Introduction to Biology	GNS

BIOL 102 Botany: Form & Function of Seed Plants	GNS
BIOL 103 Botany: Plant Diversity	GNS
BIOL 105 Human Biology	GNS
BIOL 107 Topics in Contemporary Biology	GNS
BIOL 120 General Biology I	GNS
BIOL 121 General Biology II	GNS
BIOL 135 Myology I	GNS
BIOL 136 Myology II	GNS
BIOL 137 Neurology	GNS
BIOL 150 Human Anatomy & Physiology I	GNS
BIOL 151 Human Anatomy & Physiology II	GNS
BIOL 230 Human Genetics	GNS
BIOL 260 Principles of Zoology	GNS
BIOL 285 General Microbiology	GNS
BIOL 300 Biology of Normal and Neoplastic Cells	GNS
BIOL 301 Pathophysiology	GNS
BIOL 302 Epidemiology	GNS
BIOL 405 Basic Immunology	GNS
CHEM 101 Basic Chemistry	GNS
CHEM 110 Contemporary Chemistry	GNS
CHEM 121 General Chemistry I	GNS
CHEM 122 General Chemistry II	GNS
CHEM 141 Chemical Principles I	GNS
CHEM 142 Chemical Principles II	GNS
CHEM 220 Introduction to Organic Chemistry	GNS
CHEM 241 Organic Chemistry I	GNS
CHEM 242 Organic Chemistry II	GNS
CHEM 321 Quantative Analysis, Inorganic	GNS
CHEM 322 Chemical Instrumental Analysis	GNS
CHEM 361 Biochemistry	GNS
DANS 110 Dairy Breeding	GNS
DANS 120 Anatomy and Physiology of the Dairy Cow	GNS
ENGR 201 Statics	GNS
ENGR 202 Dynamics	GNS
ENGR 210 Electrical Systems	GNS
ENGR 212 Mechanics of Materials	GNS
ENSC 101 Agricultural Science	GNS
ENSC 102 Botany: Form & Function of Seed Plants	GNS
ENSC 103 Botany: Plant Diversity	GNS

ENSC 104 Plant Pathology	GNS
ENSC 105 Entomology	GNS
ESCI 110 Equine Anatomy & Physiology	GNS
ESCI 305 Equine Reproduction & Breeding Management	GNS
HORT 150 Fruit & Vegetable Production	GNS
HORT 201 Plant Propagation	GNS
HORT 241 Plant Protection	GNS
MECH 120 Engineering Materials	GNS
MECH 211 Analytical Mechanics (Statics)	GNS
MECH 213 Strength of Materials	GNS
NATR 101 General Ecology	GNS
NATR 115 Forest Ecology	GNS
NATR 140 Geology	GNS
NATR 152 Fish Reproduction	GNS
NATR 160 Principles of Arboriculture	GNS
NATR 210 Dendrology	GNS
NATR 221 Invasive Species Management	GNS
NATR 232 Wildlife Ecology and Management	GNS
NATR 250 Aquatic Ecology	GNS
NATR 252 Fish Ecology and Management	GNS
NATR 254 Fish Health Management	GNS
NATR 260 Principles of Zoology	GNS
PHYS 107 Introductory Physics I	GNS
PHYS 108 Introductory Physics II	GNS
PHYS 127 General Physics I	GNS
PHYS 128 General Physics II	GNS
PHYS 157 University Physics I (Mechanics)	GNS
PHYS 158 University Physics II (Electricity and Magnetism)	GNS
PHYS 267 University Physics III (Sound and Thermodynamics)	GNS
PHYS 268 University Physics IV (Optics and Modern Physics)	GNS
PSCI 101 Physical Science	GNS
RENG 102 Renewable Energy Resources	GNS

#### **OTHER WORLD CIVILIZATION**

ANTH101 Introduction to Anthropology	<b>SUNY</b> <b>GER</b> GOC
GEOG 101 Introduction to World Regional Geography	GOC
HIST 151 World History to 1600	GOC



HIST 152 World History from 1500	GOC
HIST 171 Environmental History	GOC
HIST 172 Latin American & Caribbean History	GOC
HIST 181 History of Technology to 1800	GOC
HIST 351 The World Since 1914	GOC
HUMN 220 Introduction to Islam	GOC
HUMN 231 Native American Studies	GOC
LITR 208 Eastern World Literature	GOC
POLI 151 Introduction to Comparative Government	GOC

### **SOCIAL SCIENCE**

### **SUNY GER**

AGBS 225 Environmental Economics	GSS
ECON 100 Introduction to Macroeconomics	GSS
ECON 140 Introduction to Microeconomics	GSS
ECON 300 Money, Banking and Financial Markets	GSS
ECON 370 International Economics	GSS
POLI 101 American National Government	GSS
POLI 111 State and Local Governments	GSS
PSYC 101 Introduction to Psychology	GSS
PSYC 161 Social Science and Pseudoscience	GSS
PSYC 221 Biological Psychology	GSS
PSYC 241 Child Development	GSS
PSYC 242 Adolescent Development	GSS
PSYC 243 Adult Development	GSS
PSYC 251 Abnormal Psychology	GSS
PSYC 255 Psychology of Personal Adjustment	GSS
PSYC 284 Psychology of Gender	GSS
PSYC 304 Industrial/Organizational Psychology	GSS
PSYC 381 Personality	GSS
PSYC 384 Group Behavior	GSS
PSYC 386 Social Psychology	GSS
SOCI 101 Introduction to Sociology	GSS
SOCI 201 Social Problems	GSS
SOCI 220 Marriage & the Family	GSS
SOCI 221 Death & Dying	GSS
SOCI 250 Social Gerontology	GSS
SOCI 270 Drugs, Society & Behavior	GSS
SOCI 360 Social Movements and Community Change	GSS

SOCI 390 Urban Sociology	GSS
STS 101 Values of Science & Technology	GSS
STS 301 Human VS. Nature	GSS
STS 302 History of Science	GSS
STS 316 Investigating Cyberculture	GSS

## **WESTERN CIVILIZATION**

HIST 161 European History to 1684	<b>SUNY</b> <b>GER</b> GWC
HIST 162 European History from 1500	GWC
HIST 182 History of Technology from 1750	GWC
HIST 371 The World Wars	GWC
HIST 372 The Cold War	GWC

## **COURSES FULFILLING ONLY THE LAS REQUIREMENT**

AGEN 120 Water Supply & Sanitation	LAS
ARCH 102 Introduction to Architecture	LAS
ARCH 151 Architecture: Prehistory to 1800	LAS
ARCH 252 Architecture: 1800 to Present	LAS
CJUS 101 Intro to CJUS Systems	LAS
CJUS 235 Juvenile Delinquency	LAS
COMM 101 Critical Reading	LAS
COMM 131 Small Group Discussion	LAS
COMP 100 Introduction to College Writing	LAS
COMP 232 Creative Writing	LAS
COMP 240 Editing 1	LAS
COMP 241 Editing 2	LAS
COMP 242 Editing 3	LAS
HIST 221 History of the Vietnam War	LAS
HIST 251 Topics in 20th Century World History	LAS
NATR 158 Fish Nutrition	LAS
PLAS 121 Introduction to Plastics	LAS
POLI 113 American Judiciary System	LAS

## Secondary School Partnership Opportunities

SUNY Morrisville is committed to partnering with secondary school districts to provide college credit opportunities for high school students.

SUNY Morrisville defines these opportunities in the following ways:

### Articulation Agreements

Students will be granted credit upon matriculation at SUNY Morrisville typically after the first semester or year of coursework. Proper documentation from previous school or BOCES center is required. Proof of program/course completion and a minimum GPA are requirements that must be met in order to grant credit. For a list of current articulation agreements between SUNY Morrisville and secondary school institutions, please visit [www.morrisville.edu/admissions/articulation](http://www.morrisville.edu/admissions/articulation). Students must adhere to the requirements specific to each articulation in order to earn college credit.

### College in the High School

College level courses that are offered on-site at secondary school locations, taught by high school instructors. Credit is granted upon completion of the course and can be transferred to SUNY Morrisville or transferred to another institution. All classes follow SUNY Morrisville academic policies to ensure course integrity. For cost information and a complete list of College in the High School courses, please visit [www.morrisville.edu/admissions/collegeinhighschool](http://www.morrisville.edu/admissions/collegeinhighschool).

### Early College Program

High School students enroll in on-campus courses with MSC matriculated students, at both the Morrisville and Norwich campuses, typically during their school day. Courses are part of the semester schedule and taught by college faculty. Students will work with their school counselor and the MSC K-12 Relationship Specialist to choose the courses that fit with their high school schedule and collegiate goals. Students follow the same academic calendar, policies and timelines as MSC matriculated students. Please note, early college students are not eligible to receive federal or state financial aid. However, cost per credit has been drastically reduced. To view participating early college schools districts and cost information, please visit [www.morrisville.edu/admissions/earlycollege](http://www.morrisville.edu/admissions/earlycollege).

### Formal Articulation Agreements for Associate Degree Graduates

### SUNY Morrisville Transfer Pledge

SUNY Morrisville is making it easier for community college transfer students to earn their four-year degree. The SUNY Morrisville Transfer Pledge is an opportunity designed to ensure that community college transfers receive full credit when transferring with an associate degree into an aligned program area. The new agreement eliminates reviewing transfer status based on a course by course review, honoring full junior status for incoming students and allows for graduation in just two additional years with the vision to Finish in Four. The Pledge also includes specific guarantees and

financial support opportunities for high achieving students.

This Transfer Pledge is designed specifically to accommodate all Associate Degree graduates including those earning A.A.S. degrees. New alignments are added continually. If your college is not a pledge partner, our Transfer Team will be happy to align your specific program area as appropriate.

Please visit our website for more information on this opportunity - [morrisville.edu/transfer-pledge](http://morrisville.edu/transfer-pledge)

**SUNY Adirondack***Degree from College*

AAS – Information Technology:

*Degree to MSC*

BT – Information Technology: Application Software Development

**SUNY Broome***Degree from College*

AAS – Criminal Justice: Police

AS – Criminal Justice: Corrections

AS – Homeland Security

*Degree to MSC*

BT – Criminal Justice

BT – Criminal Justice

BT – Criminal Justice

**SUNY Canton***Degree from College*

AAS-Automotive Technology

*Degree to MSC*

BT- Automotive Technology

**SUNY Columbia Greene CC***Degree from College*

AAS – Automotive Technology

AAS – Information Technology

*Degree to MSC*

BT – Automotive Technology

BT – Information Technology: Networking Administration/Application Software

**SUNY Delhi***Degree from College*

AAS-Automotive Technology

*Degree to MSC*

BT- Automotive Technology

**SUNY Herkimer CC***Degree from College*

AS – Computer Network Technician

AS – Computer Science

*Degree to MSC*

BT- Information Technology: Network Administration

BT – Information Technology: Application Software Development

**SUNY Jefferson CC***Degree from College*

AAS – Information Technology:

*Degree to MSC*

BT – Information Technology: Application Software Programming

**SUNY Mohawk Valley CC***Degree from College*

AAS- Computer Information Systems

*Degree to MSC*

BT- Information Technology: Application Software Development

**SUNY Onondaga CC***Degree from College*

AAS-Automotive Technology

AAS-Computer Information Systems

AAS – Business Technology

AS – Business Administration

*Degree to MSC*

BT- Automotive Technology

BT- Information Technology (Application Software

Development, Web Development, End-User Support, Network Administration)

BBA – Business Administration

BBA – Business Administration

**SUNY Rockland CC***Degree from College*

AAS – Automotive Technology

*Degree to MSC*

BT – Automotive Technology

**Additional Articulation Agreements**

The following are formalized agreements for students who have completed a two-year degree elsewhere and wish to complete a baccalaureate degree at SUNY Morrisville. While these represent formal agreements, it is by no means an exhaustive list. For any student who has successfully completed an Associate Degree, MSC will make every effort to accommodate a seamless transfer allowing maximum credit transfer consideration.

**Adirondack Community College***Degree from CC*

AAS- Information Systems (0581)

AAS - IT Networking (0559)

*Degree to MSC*

BT-Information Technology (1506) Web Development

BT-Information Technology (1505) Network Administration





AAS-Web Site Design and Management	BT-Technology Management
AAS-Accounting	BBA-Entrepreneurship and Small Business Management
AAS-Business Management: Human Resources	BBA-Entrepreneurship and Small Business Management
AAS-Business Management: International Business	BBA-Entrepreneurship and Small Business Management
AAS-Business Management: Marketing	BBA-Entrepreneurship and Small Business Management
AAS-Business Management: Small Business Management	BBA-Entrepreneurship and Recreation Management
AAS-Financial Services Management	BBA-Entrepreneurship and Small Business Management
AS-Business Administration	BBA-Business Administration
AAS-Business Management	BBA-Business Administration
AOS-Culinary Arts	BBA-Resort and Recreation Service Management
AOS-Culinary Arts Management with Baking and Pastry Arts Emphasis	BBA-Resort and Recreation Service Management
AAS-Food Service Administration: Restaurant Management	BBA-Resort and Recreation Service Management
AAS-Hotel Technology: Meeting Services Management	BBA-Resort and Recreation Service Management
AA-Criminal Justice (Conflict Resolution)	BT-Criminal Justice
AA-Criminal Justice (Forensics)	BT-Criminal Justice
AA-Criminal Justice	BT-Criminal Justice

### **Monroe Community College**

*Degree from CC*

AS-Information Technology

*Degree to MSC*

BT-Information Technology (All Concentrations)

### **Onondaga Community College**

Dual Admissions Agreement (2+2) stipulates that upon admission to the specified programs at OCC, students are concurrently admitted into the bachelor's program at SUNY Morrisville, provided they complete the Associate's degree at OCC and meet the criteria for admissions into SUNY Morrisville's programs.

*Degree from CC*

AAS-Culinary Management  
AAS-Hotel Management  
AAS-Food Service/Institutional Mgt  
AAS-Restaurant Management  
AS-Business Administration  
AAS-Business Technology  
AAS-Computer Information Systems  
AS-Criminal Justice

*Degree to MSC*

BBA-Resort and Recreation Service Management  
BBA-Resort and Recreation Service Management  
BBA-Resort and Recreation Service Management  
BBA-Resort and Recreation Service Management  
BBA-Business Administration  
BBA-Business Administration  
BT-Information Technology: Application software development, Network Administration  
BT-Criminal Justice

### **Schenectady Community College**

*Degree from College*

AOS-Culinary Arts  
AOS-Culinary Arts: Baking  
AAS-Hotel & Restaurant Mgt:  
Beverage Mgt Concentration  
AAS-Casino & Gaming Mgt  
AAS-Hospitality & Tourism Mgt  
AAS-Hotel & Restaurant Mgt

*Degree to MSC*

BBA-Resort and Recreation Service Management  
BBA-Resort and Recreation Service Management  
BBA-Resort and Recreation Service Management  
  
BBA-Resort and Recreation Service Management  
BBA-Resort and Recreation Service Management  
BBA-Resort and Recreation Service Management

### **SUNY Canton**

*Degree from College*

AAS-Veterinary Science Technology

*Degree to MSC*

BT-Equine Science

### **SUNY Delhi**

*Degree from College*

AAS-Veterinary Science Technology

*Degree to MSC*

BT-Equine Science

### Formal Articulation Agreements for MSC Bachelor Degree Graduates: Seamless Transfer to accelerated Master's Degree Programs

The following are formalized agreements for students who have completed a four-year degree at SUNY Morrisville and wish to complete an accelerated 1 year Master's degree program at Clarkson University, SUNY IT, or SUNY Oswego.

#### SUNY Morrisville

*Degree from MSC*

BBA-Business Administration

*Degree to Clarkson University*

MBA-Business Administration

*Degree to SUNY IT*

BBA-Business Administration

MBA-Technology Management

*Degree to SUNY Oswego*

BBA-Business Administration

MBA-Business Administration

### Formal Articulations Agreements for SUNY Morrisville Associate Degree Graduates

The following are formalized articulation agreements for students who have completed a two-year degree at SUNY Morrisville, who could be accepted with full junior status at a four-year institution in their chosen major. For specific information on these articulation agreements, please consult the Admissions Office for advising and assistance.

#### All Associate Degree Program Graduates at SUNY Morrisville AAS/AS

##### SUNY Morrisville

Bachelor of Business Administration in Entrepreneurship & Small Business Management

Bachelor of Technology in Technology Management

##### Agriculture AAS

SUNY Morrisville

Bachelor of Technology in Dairy Management

Bachelor of Business Administration in Agricultural Business Development

Bachelor of Technology in Horticulture Business Development

##### Cornell University

Bachelor of Science in Agricultural and Biological Engineering

Bachelor of Science in Animal Sciences

Bachelor of Science in Applied Economics and Management

Bachelor of Science in Education (Agricultural Education)

Bachelor of Science in Entomology

Bachelor of Science in Food Science

Bachelor of Science in Plant Sciences

Bachelor of Science in Rural Sociology

Bachelor of Science in Soil, Crop and Atmospheric Sciences

Bachelor of Science in Special Program in Agriculture and Life Sciences

Bachelor of Science in Biological Sciences

Bachelor of Science in Communication

Bachelor of Science in Landscape Architecture

Bachelor of Science in Natural Resources

Bachelor of Science in Statistics and Biometry

#### Automotive Technology / Autobody Technology AAS

##### SUNY Morrisville

Bachelor of Technology Automotive Technology

Bachelor of Business Administration in Automotive Technology Management

#### Business Administration AAS/AS

##### SUNY Morrisville

Bachelor of Business Administration in Business Administration

#### Computer Information Systems AAS

##### SUNY Morrisville

Bachelor of Technology in Information Technology

## Dietetic Technician/Nutrition and Dietetics AAS

### **SUNY Oneonta**

Bachelor of Science in Dietetics

### **SUNY Plattsburgh**

Bachelor of Science in Nutrition

### **Syracuse University**

Bachelor of Science in Dietetics

### **Rochester Institute of Technology**

Bachelor of Science in Nutrition Management

## Journalism Studies

### **SUNY Morrisville**

Bachelor of Science in Journalism & Communication for Online Media

## Natural Resources Conservation AAS

### **SUNY Morrisville**

Bachelor of Technology in Renewable Resources

### **SUNY College of Environmental Science and Forestry**

Associate of Applied Science in Forest Technology (1+1)

Bachelor of Science Dual Program in Environmental and Forest Biology

Bachelor of Science in Chemistry

Bachelor of Science in Dual Program Forest Ecosystems Science

Bachelor of Science in Construction Management and Wood Products Engineering

Bachelor of Science in Environmental Studies

Bachelor of Science in Paper Science Engineering

Bachelor of Science in Environmental Resources and Forest Engineering

Bachelor of Science Environmental Resources and Forest Engineering

Bachelor of Science in Forest Resource Management

Bachelor of Landscape Architecture

## Nursing AAS

### **SUNY Morrisville**

Bachelor of Science in Nursing

### **SUNY Poly Tech**

Bachelor of Science in Nursing

### **SUNY Upstate Medical University**

Bachelor of Science in Nursing

### **Le Moyne College**

Bachelor of Science in Nursing

## Human Performance and Health Promotion AS

### **SUNY Morrisville**

Bachelor of Science in Human Performance and Health Promotion

# THE COLLEGE COMMUNITY

## Dining Services

Dining Services believes that providing great food at a great value to the campus community is the starting place. From there, they have provided dining spaces that are welcoming with environments that students enjoy. The executive chef works with each location to provide students with an exciting, flavorful and nutritious menu that covers the familiar as well as providing them with chances to broaden their palate with international cuisine. The dining services team is a friendly, approachable and receptive group. They welcome comments and are always available to speak with students. Morrisville Auxiliary Corporation (MAC) offers five dining locations on campus and one restaurant off campus; each with its own unique niche:

Seneca Dining Hall is the “all you care to eat” location. Payments accepted are meal plan, Dining Plus, Mustang Money, cash, credit card.

The Pit Stop is a quick “grab and go” store and is located on the south end of Seneca Dining Hall. Payments accepted are, Dining Plus, Mustang Money, cash, credit card.

Mustang Alley is a food court style dining facility conveniently located in the Student Activities Building. Mustang Alley currently offers a Brickyard Pizza area, Field of Greens (salads, soup and sandwiches), 3rd Degree Grill, World's Fare, and a Taste of Italy section. Payments accepted are meal plan (\$5.75 equivalency), Dining Plus, Mustang Money, cash, and credit card.

Smooth Jazzy Joz is a coffee shop and bakery which also serves milkshakes and smoothies. Payments accepted are Dining Plus, Mustang Money, cash, credit card.

Stix is a concession stand in the IcePlex, famous for their Bosco Sticks and subs! Payments accepted are meal plan (\$5.75 equivalency), Dining Plus, Mustang Money, cash, and credit card.

Copper Turret Restaurant & Brewhouse is an auxiliary-owned dining establishment located just off campus in the center of Morrisville. The popular eatery serves as a learning laboratory for students in culinary and hospitality-related majors, as well as Morrisville's new Brewing Institute. Payments accepted are meal plan (\$7 equivalency), Dining Plus, Mustang Money, cash, and credit card.

To speak to someone in any of the dining locations, please call:

Seneca Dining Hall: 315-684-6306

The Pit Stop: 315-684-6838

Mustang Alley: 315-684-6673

Smooth Jazzy Joz: 315-684-6778

Stix: 315-684- 6359

Copper Turret: 315-684-6699

Other items of interest:

- The campus menus are located online at dining.morrisville.edu with nutritional information attached for most items.
- Family and friends can recognize a birthday or special occasion by sending a cake or gift basket to their student. Orders can be placed by calling 315-684-6662.

Dining services employs a number of students in the dining facilities every

semester. If you are interested in working for MAC, please call 315-684-6047 or stop in to the MAC Business Office in Hamilton Hall.

## International Education

SUNY Morrisville is one of the most diverse institutions within the State University of New York system. The college has a distinguished history of commitment to international student education. The college currently has students studying in a variety of academic programs hailing from Canada, Estonia, Germany, Greece, Japan, China, Vietnam, Pakistan, Nigeria, South Korea, Taiwan and India. The Office for International Education fosters a better understanding of the world among the campus community through a wide variety of activities. This office assists international students in their acculturation and academics through advising, workshops, orientations, cross-cultural activities, and coordination of services. Students are further assisted in managing their immigration documents and scholarship/internship requirements. Additional office activities include exploring opportunities for and encouraging student/faculty participation in travel and study abroad programs, and exploring opportunities for overseas exchange.

The office, in conjunction with other college offices, attempts to meet the individual academic, social and other intangible needs of international students. Morrisville State College places an emphasis on students becoming actively engaged in learning from their American experience. The college encourages and supports this approach to international education. International students at SUNY Morrisville are successfully participating in the classroom, living with their American counterparts in residence halls, competing on sports teams and are leaders in student clubs.

The International Education Office, in partnership with the Office of Admission and the Primary Designated School Official (PDSO) are responsible for advising students about finances, U.S. government regulations (including immigration and tax concerns) and cross-cultural issues relating to their studies in the United States. Academic advisors or academic deans in an international student's respective school are the parties responsible for handling questions related to academics.

The International Education Office provides information regarding the SUNY Health Insurance Plan for international students. ALL international students must carry the State University of New York health insurance plan.

The International Education Office and Primary Designated School Official (PDSO) is located in the library and can be reached by telephone at 315-684-6067, by fax at 315-684-6503, or e-mail at cornelml@morrisville.edu. The international admissions officer may be reached in person in the Admission Office, 2nd floor, Whipple Administration Building, by telephone at 315-684-6046, by fax at 315-684-6427, or via e-mail at admissions@morrisville.edu.

## ONCAMPUS SUNY

A 1st year college pathway program which assists international students transition to college-level study. Students earn college credit typical of any first year student. Additionally, the program provides students supportive instruction to build academic skills while helping the student acclimate to the new culture. Successful completion of ONCAMPUS SUNY enables international students to gain admission to, and obtain undergraduate degrees from, either SUNY Morrisville or one of our partnering SUNY Colleges. Program Coordinator: Sarah Bjork..

## Counseling Services

The Student Health Center approaches all student concerns with a holistic view. Emotional health is an important component of a student's well-being. Counseling services are available in the Matthias Student Health Building, located behind the John W. Stewart Center for Student Activities

(STUAC). Office hours are: Monday through Friday from 8:30 a.m. to 4:30 p.m. Please call 315-684-6078 to set up a counseling appointment. Services are confidential and free to all enrolled students.

Counselors provide mental health counseling services and consultations at the Student Health Center in a confidential, respectful and safe setting. Counselors listen objectively and assist students with personal, social, and emotional concerns and guide students in the process of exploring options, identifying goals and possible outcomes in order to help them reach their full potential. Consultation services are also available regarding all mental health topics.

Counselors in the Student Health Center are involved in outreach services to the college community by presenting programs and workshops, as well as information tables on important mental health and social issues. The center also sponsors a National Mental Health Screening Days.

### Services for Students with Disabilities

The philosophy of the institution is to provide students with the opportunity to obtain an education which will aid them in living a full and independent life. Accordingly, assistance is available for those students with physical, psychological, and learning impairments.

Available services include individual assistance for academic, personal, and career concerns; liaison with the student and the Office of Vocational Educational Service for Individuals with Disabilities (VESID) and other services agencies; assistance in obtaining tutors, interpreters, note takers, audio-visual and library materials designed for specific assistance; special parking accommodations, preferential housing, ramps, and elevator keys. Class scheduling, housing arrangements and rest room facilities are designed to facilitate access. These support services are intended to encourage students to participate in all phases of college life.

While Section 504 of the Rehabilitation Act of 1973 designates responsibilities of the institution, we recognize that the student is responsible for notifying the college of any disability so that appropriate attention may be given. Services for students with disabilities are arranged through David Symonds, located in Butcher Library, 315-684-6349.

### The Children's Center at Morrisville State College, Inc.

The Children's Center at SUNY Morrisville, Inc. is a licensed, not-for-profit child care facility providing services to children of college students, faculty and staff, and as space allows, members of the Morrisville community.

The center provides child care services for up to 53 children from six-weeks-old through pre-kindergarten. School-age programs are also available before school, after school and throughout the summer at the Edward R. Andrews Elementary School in Morrisville.

The center is located in Bailey Annex Hall on the Morrisville campus. More information can be obtained by visiting the center or by calling 315-684-6400.

### Tutoring

Tutoring is available to all Morrisville students free of charge. Most tutoring occurs at the Tutoring Center located on the first floor of Butcher Library. Tutoring is available in most subject areas and occurs one-on-one and in small groups. Both peer and professional tutors are available to assist students by appointment and on a walk-in basis. NightOWL, the center's online tutoring service, is also available for approximately ten subjects.

In addition to tutoring, the Tutoring Center offers Student Success Seminars, a series of workshops on topics such as study skills, taking notes, time management, and test-taking strategies.

### A.O.E Educational Opportunity Program (EOP)

The principal mission of the Educational Opportunity Program (EOP) at SUNY Morrisville is to provide educational opportunity and support to students with strong academic and personal potential, students who would otherwise be excluded from higher education due to circumstances of academic and economic disadvantage. Admission procedures have been developed and implemented to select applicants who have the potential to succeed in college, but do not have the academic preparation or financial resources necessary for admittance. The EOP Office is located in Butcher Library and can be reached at 315-684-6075.

### College Science Technology Entry Program (CSTEP)

Morrisville CSTEP is an enrichment program, funded by the New York State Department of Education and provides services to underrepresented students and/or economically disadvantaged students who are interested in careers in science, technology, engineering, math (STEM) fields & licensed professions. Services provided includes research/internship/profession development opportunities, individual advisement, hands-on activities. These initiatives are geared to challenge and support the student's academic, professional and personal growth as scholars. The CSTEP office is located in Heylar Hall, 315-684-6009.

### Health Services

The Matthias Student Health Center is located south of the John W. Stewart Center for Student Activities (STUAC). Services provided at the Student Health Center are covered by the mandatory student health fee and are available for no additional cost. The hours of operation are:

Monday-Friday: 8:30 a.m.-4:30 p.m.

Telephone 315-684-6078; FAX 315-684-6493

After hours, all emergencies are referred to the local hospital.

### Services include:

1. Examination, treatment and follow up for illnesses, such as: upper respiratory infections, ear infections, urinary tract infections, orthopedic injuries, minor cuts and bruises.
2. Confidential psychiatric services.
3. Sexual health services such as birth control, emergency contraception and Pap smears.
4. Testing and treatment for sexually transmitted infections for both males and females.
5. Management of chronic conditions such as asthma, diabetes, and high blood pressure in coordination with the primary care provider.
6. Laboratory testing in office for rapid strep, urinalysis, pregnancy, mononucleosis and influenza. All other lab work is sent to a registered laboratory and billed to the student's health insurance.
7. Medications in a limited number are available in the Health Center. Medications not available in the Health Center can be obtained at area pharmacies with a prescription.
8. Instruction regarding illness, medications, self-care, common college health conditions, prevention, etc.

### Requirements for service:

1. Must be a currently enrolled student.
2. Must have met the New York State Department of Health law with immunizations.
3. Must have a physical exam within one year of admission on file for health related visits. Not necessary for counseling visits.
4. Anyone who presents with a physical emergency or mental health crisis will be evaluated.



### Insurance:

All students are required to have medical insurance. If a student is not covered under a family plan, the College's Business office will provide information for the purchase of a health insurance plan.

### Safety Regulations

Students are required to use approved eye safety devices, in accordance with the regulations of the Commissioner of Education, in shops, laboratories and other situations where potential eye hazards are deemed to be present. Other safety devices and equipment are also required in certain laboratories.

### Personal Property

Students are responsible for their own personal property. The college cannot assume liability for loss or theft of personal property or for damage to personal property on college grounds or in college buildings.

### Motor Vehicles

It is each student's responsibility to know and understand what the rules and regulations are for parking a motor vehicle on campus. If students are unsure of a policy or have a question, they can call the University Police Office. Student vehicles must be registered with the New York State University Police parking office, which issues a summary of traffic and parking regulations when vehicles are registered.

All residential lots are the same fee with parking being on a first-come, first-served basis. All commuter parking lots are the same fee. Required for operation of a student vehicle on campus are a valid operator's license and compliance with the state laws as well as the regulations of the college. The college may suspend or revoke the college vehicle registration privileges of any vehicle whose operator accumulates five or more parking convictions. Fines and other penalties may also be imposed for violations of college parking and traffic regulations. To view SUNY Morrisville campus traffic and parking regulations, go to: [www.morrisville.edu/up](http://www.morrisville.edu/up) then click on the parking permits link.

### New York State University Police

New York State University Police is the law enforcement branch of the State University of New York. Sworn members are police officers who possess full law enforcement authority on the campus and adjoining roads. Sworn members must pass all aspects of the civil service testing procedure and complete the basic course for police officers at a New York state division of criminal justice services approved police training academy. The course of instruction includes curriculum specifically designed for law enforcement duties in a university setting. All current members exceed this requirement. New York State University Police officers enforce local, state, and federal laws as well as the rules and regulations promulgated by the State University of New York.

New York State University Police patrol the SUNY Morrisville campus 24 hours a day, year round. Patrolling is done by foot, motor vehicle, and by specially trained members on mountain bicycle. Strong emphasis is placed on crime prevention and detection and education of the campus community. Each member is assigned a residence hall as a resource officer for that community. The member works with the residence hall staff to promote a safe and secure living environment for the residents. Members present programs in the residence halls on a variety of topics including personal safety, fire safety, and alcohol abuse awareness.

A "blue light" emergency telephone system is located throughout the campus. The telephone system provides a direct/automatic link to the New York State University Police. In addition, with the introduction of AT&T cell phones as part of the campus infrastructure, students have an additional personal direct link to University Police by punching #87 or #UP on their AT&T phone no matter where they are on campus.

New York State University Police work closely with other student service departments on campus as well as other law enforcement agencies to provide a safe and secure environment in which all community members

may continue to grow and learn.

Operation Mo-Watch is an initiative developed by the New York State Police at SUNY Morrisville to promote awareness amongst the student body of the importance of the role they play in preserving the peace on campus, as well as protecting themselves and others, by storing the emergency numbers for the University Police in their personal cell phones in case of an emergency. The AT&T phones provided to residential students on campus come with the emergency numbers for the University Police already programmed. This ensures that students have the means to contact University Police promptly should the need arise, be it through their personal or school-issued cell phones.

### Morrisville Commons I and II (MAC)

Enjoy living with friends, in an apartment-like setting. Morrisville Commons is located adjacent to the Auto Tech building – a short walk or shuttle ride from campus. Both Morrisville Commons buildings provide a secure living environment with a live-in manager, and offer full kitchens that include a stove/oven, refrigerator and microwave. Wired internet connections are located in each bedroom, and wireless internet service is available throughout each building. Community lounge areas also provide opportunities to have fun while making friends with your neighbors. Parking is also available for all Commons residents, at the standard campus fee.

Morrisville Commons is a quiet environment to study, a fun place to hang out with friends, and a great place to live.

### The Campus Store

The Campus Store, operated by Morrisville Auxiliary Corporation (MAC), provides the college community with textbooks and supplies necessary to complete courses. In some cases, when a student is eligible for a refund through financial aid, it may be used to purchase textbooks. The store carries a variety of clothing, posters, cards, gifts, computer hardware and software, electronics, and miscellaneous items to enhance life at SUNY Morrisville.

Additional services include Shortline/Coach USA daily bus service, postage stamps, Western Union Services, and more. Like us on Facebook or visit us online at <http://bookstore.morrisville.edu>.

- The Campus Store can be reached at the following numbers:
- Morrisville Campus Store 315-684-6073
- Norwich Campus Store 607-334-5144

### Student Identification Cards

The ID card is a necessary part of students' college career on campus. It is used as a picture ID for admission to student functions on campus, meal plan and Dining Plus usage at dining facilities, building entrance at resident halls, computer labs and select classrooms, and it carries Mustang Money (declining balance account that can be used at any dining facility on campus, vending machines, Campus Store, and select off-campus locations including the Copper Turret). It also provides identification to check out materials at the campus Library. The College ID Services Office, located in the Technology Center in Hamilton Hall, is open Monday-Friday, 8:30am-4:30pm. Stop in or register with GET Funds at <http://get.cbord.com/morrisville> to manage your meal plan, add money to your card, or report your card lost or stolen (\$5 replacement fee). For more information, call 315-684-64053.

### MAX Shuttle

MAX, Morrisville Area Xpress, is a campus shuttle service specifically designed to support the commuting needs of Morrisville students, faculty and staff. This convenient shuttle encompasses all of the immediate stops on the main campus as well as outer lying college facilities. In addition, MAX offers an expanded transportation service to area malls, shopping centers and to various local recreation and entertainment outlets. MAX

Rides for Residents provides transportation to scheduled non-emergency appointments with a health care provider or other professional. Transports are authorized and coordinated by the Student Health Office, the Office of Disability Services, MSC Athletic Trainers or University Police. All MAX services run throughout the fall and spring semesters, with the exception of the college breaks and holidays. All MAX Shuttle services are funded by SUNY Morrisville's transportation fee and are available to students at no additional charge. Printable bus schedules are available at [www.morrisville.edu/max](http://www.morrisville.edu/max).

### Nelson Farms

Located eight miles from campus in Nelson, NY, Nelson Farms is SUNY Morrisville's small-scale, FDA inspected food processing incubator that provides entrepreneurial agri-business opportunities for specialty food processors, farmers, growers and producers. SUNY Morrisville students in several programs of study use Nelson Farms as an experiential learning laboratory, gaining real-world experience in agritourism, marketing, entrepreneurship, and value-added agriculture and development.

The Nelson Farms Country Store is a specialty market featuring products produced in the kitchens of Nelson Farms as well as other products from all regions of New York State. The Country Store offers a wide array of products including pancake, muffin and other mixes, syrups, jams and jellies, barbecue sauces, salsas, salad dressings, chocolates and more! In addition, several special events, such as product tastings, are offered to the public. For more information, visit Nelson Farms online at [www.nelsonfarms.org](http://www.nelsonfarms.org).

## STUDENT LIFE

The SUNY Morrisville community is representative of many ages, backgrounds, cultures and experiences. The college welcomes and encourages diversity, learning and open communication. A wide range of activities and services for residential and commuter students complement and enhance the educational experience.

### Director of Residence Life

Office: 315-684-6043

[www.morrisville.edu](http://www.morrisville.edu)

### Residence Life

As a college of agriculture and technology, SUNY Morrisville is a unique educational institution combining technical and academic offerings in a residential campus setting. Students may live in one of the college's on-campus residence halls.

Residence halls provide an opportunity for autonomy and affiliation in a supportive environment and serve as centers for organized social, cultural and educational activities. Each residence hall offers study and recreational lounges, laundry facilities, wired and wireless computer access, and a variety of vending machines. Each room is furnished with desks and chairs, beds, dressers, floor lamps, and cable hookup.

Residence Life actively solicits student input regarding housing and roommate preferences from the housing preference form. A professional residence hall director staffs each residence hall with a student staff of resident assistants and night hosts.

All students who live in SUNY Morrisville residence halls must sign a housing license which is binding for a full academic year (fall and spring semester) and must purchase a meal plan. Residential students will receive an AT&T cell phone with complete campus coverage. All freshmen and sophomores are required to live on campus, providing them with the significant academic and personal benefits of a managed-living environment, needs-based programming, staff support/contact and community development. Students admitted in the spring semester are required to sign that housing license and are liable for that spring

semester. Exceptions to the housing requirement include students who transfer to SUNY Morrisville and are designated above freshman status, those who can commute from their permanent address within a 30-mile radius from the college, and those over the age of 21. If students who would otherwise be exempt from the housing requirement (for reasons previously stated), choose to live in the residence halls, they will be expected to meet all conditions of the housing license. Students who want to be released from their housing license must apply for release in the Office of Residence Life.

Students may or may not be released from their license and should not move off campus or enter into any off-campus housing agreement until their application is reviewed and a decision is reached by a committee. Students who are released from the housing license will be assessed an administrative fee (calculations made by the Business Office.) The college does not provide married/family student housing. Contact the Residence Life Office at 315- 684-6043, or visit the SUNY Morrisville Web site, [www.morrisville.edu](http://www.morrisville.edu) for further information.

### College Judicial Affairs

A college is a community established for educational purposes and like a college is a community established for educational purposes and like any community depends upon rules for its orderly existence. Individuals are expected to assume responsibility for their behavior and for that of groups to which they belong. The College Judicial Affairs system functions to articulate, enforce and educate the campus community about college policies, the student code of conduct and associated campus judicial actions. The Dean of Students or designee may impose sanctions when a student is found to have violated campus rules and regulations. For specific information, please refer to the Student Handbook which is located online at [www.morrisville.edu](http://www.morrisville.edu)

### Student Activities

Your Student Activities Office offers a variety of academic, cultural, recreational and social programs, events and opportunities for students to participate in at SUNY Morrisville. The office encourages all students, new and returning, to get involved in clubs and organizations and activities – there is something for everyone!

The staff is ready to assist and advise students in many areas. Student Activities produces the activities calendar, Co-Curricular Transcripts, and develops and/or participates in organizing many of the programs and services that occur throughout the school year, including Welcome Weekend and Mustang Weekend.

The Student Activities program includes more than 30 clubs, 10 organizations, intramurals, open recreation, theater, music and numerous events and services implemented throughout the Student Government Organization (SGO) and the Campus Activities Board (CAB). Events and programs offer alcohol and drug free alternates for students. The mandatory student activity fee supports these programs and events.

There is never a reason to be bored at Morrisville; there is always something to do. We offer movies, basketball tournaments, dances, live performers, game shows, plays, concerts and soccer tournaments; just to name a few events.

Check out our events calendar for a complete list of events with a list of dates and times. Weekends and nights are worth staying around for; see what we have to offer.

The Student Activities Office offers students the opportunity to enhance or start their Co-Curricular Transcript (CCT). Students that participate in worthwhile campus or off-campus activities may complete a Co-Curricular Transcript (CCT) that can serve as a valuable supplement to your college transcript for scholarships, awards, and future job searches. The CCT is an official record that is verified by either an advisor or supervisor listing the various developmental activities outside the classroom. Activities that can be put on your CCT are leadership development, professional and educational development, awards, honors and recognitions, student organizations, club and activity participation, community service, intercollegiate athletics and peer advising.

## CLUBS AND ORGANIZATIONS

The following is a list of clubs and organizations sponsored by the Student Government Organization. For more information on any of the following, contact the Student Activities Office at 315-684-6238.

## ORGANIZATIONS

### Arcadian

Here is your chance to get involved no matter what your major is! The Arcadian is SUNY Morrisville's yearbook. The college yearbook is produced by a student staff. Students have an opportunity to learn the fundamentals as well as advanced journalism techniques for producing the yearbook. Positions are open in all facets of the yearbook; photography, page layout and graphic design.

### Campus Activities Board (CAB)

The Campus Activities Board provides programming for the entire campus. Through a combination of dedication and hard work CAB brings comedy, movies, novelties, music, mall trips, dances and lectures to students. CAB averages more than 200 events per year. A unique mix of programming along with special events like Mustang Weekend and Spring Jam, keep students informed, educated and entertained. CAB welcomes all students to join. To join, come to a CAB meeting or stop by the Student Activities Office for more information.

### The Chimes

The campus newspaper contains timely information on life at SUNY Morrisville. Although primarily a production unit for journalism students, the Chimes welcomes all students looking for a chance to continue their writing and photographic hobbies. Students write and design for print and on-line paper, which can be found at [www.mscchimes.com](http://www.mscchimes.com).

### Intramurals/Open Recreation

Intramurals at SUNY Morrisville provides a comprehensive program that gives students the opportunity to enjoy all levels of organized sports, regardless of their athletic ability. Every year over 800 students participate in various leagues, tournaments, and fitness classes. Students are provided with a safe environment and state of the art facilities and equipment. It's a great way to socialize, work out, and have fun! In addition, more than 45 hours of open recreation time is scheduled weekly.

### Music Department

The Music Program provides opportunities for students to continue exploring their own musical talents while providing a variety of live music for the campus and community. The Paragons Jazz Band performs as both a big band and as a small combo. We offer a major concert each semester. Membership in the group is open to the greater community, though typically the majority of all performing groups is comprised of SUNY Morrisville students. College credit is available for participation.

### Mustang Outreach & Volunteer Efforts (MOVE)

MOVE is dedicated to promoting, organizing, and facilitating community service at SUNY Morrisville. MOVE serves as a resource to students, faculty, staff, and community partners to identify and accomplish service activities; enhancing the academic and co-curricular experience for students while striving to enhance civil engagement and meet the needs of our local community.

### Norwich Student Government Organization (Norwich SGO)

The Norwich SGO provides social, cultural, educational and other activities to promote the general welfare of the student body. It also seeks to establish a just college community by promoting democratic participation in the student government process.

### Student Government Organization (SGO)

The Student Government Organization (SGO) is an integral part of student activities at SUNY Morrisville, serving the entire student body

through the allocation of the student activity fee. The goals of SGO are to promote the general welfare of the student body, to stimulate interest in and support activities contributing to cultural, social, educational and physical improvement and to establish a just college community. Officers are elected and appointed from the student body by students. All executive board positions are paid positions. The SGO Assembly is comprised of the executive board and representatives from clubs and members at large. Assembly meetings are held weekly and times and dates are determined each semester by the majority vote. All students, new and returning, are welcome and encouraged to attend.

### Theater Program

The Theater program produces a play in the fall semester and a musical in the spring semester, giving interested students the chance to develop their acting skills in both types of dramatic productions. Students also have the opportunity to participate in the design, technical and promotional aspects of theater. They can design lights, construct scenery, or oversee publicity. Field trips are taken to enrich appreciation and knowledge of theater. Auditions are held in the beginning of each semester and are open to all students and community members. The department also offers students a chance to direct one act plays each semester.

### WCVM "Rockin' The Mix"

WCVM is an organization member of SGO on the SUNY Morrisville campus. Students from all majors can earn one academic credit by participating in WCVM labs in the following departments: Human Resources, Music, News & Sports and Web Content-Audio. WCVM is an Internet based radio station and can be found on the SUNY Morrisville Website. It is a student managed, student run station in which students program daily schedules with a variety of musical formats including alternative rock, hip hop and country music. Students produce weekly news and sports programming which is aired live during daily student on-air shifts from Monday-Friday. Students also produce live broadcasts of Mustang football, basketball and ice hockey.

## CLUBS

### African Student Union Black Alliance (ASUBA)

Organized to promote cultural interaction and awareness on campus. It also serves as a sounding board for issues and concerns related to affirmative action. Throughout the year, ASUBA sponsors various educational and social activities designed to improve relations in the campus community. Membership is open to everyone.

### Agricultural Engineering Club

This club explores the field and future of agricultural engineering. Members participate in field trips, community service, and contests sponsored by PAS and the National Association of College and Teachers of Agriculture (NACTA).

### American Culinary Federation (ACF)

The student chapter of the ACF gathers together to learn and enjoy all aspects of the culinary industry. The group focuses on networking with professionals in the industry. The function of the club is to support all students in their efforts to be ambassadors of SUNY Morrisville, the hospitality department and the community at large.

### Architecture Club

Organized to promote excellence in architectural education, training and practice, this club fosters an appreciation of architecture through a variety of activities. These activities have included films, volunteer service, visiting urban areas, touring architectural firms, and exploring significant works of architecture such as the Kaufmann House (Fallingwater) at Bear Run, Pennsylvania, designed by the architect Frank Lloyd Wright.

### Automotive Club

This club was created to provide students with an interest in the automotive industry the opportunity to learn more about the industry through videos, professional engineers and field trips. Membership is open to everyone.

### **Baccalaureate Student Nursing Association**

The Bachelor of Science Nursing Association club was created to aid the nursing student in their development as a whole person and their professional role and responsibility for health care of people in all walks of life. Also to provide programs representative of fundamental interest and concerns to the professional nurse and to assume responsibility for contributing to nursing education in order to provide for the highest quality of health care. Membership is open to everyone.

### **Brothers and Sisters in Christ (B.A.S.I.C.)**

The purpose of B.A.S.I.C. is to provide a liaison for students of SUNY Morrisville and local churches. B.A.S.I.C. provides a pastoral care for the students of SUNY Morrisville, to communicate the Gospel of the Lord Jesus Christ and to introduce others to a personal faith in the Lord Jesus Christ and the baptism of the Holy Spirit by providing a spiritual environment for students. Through Bible study, prayer, and Christian fellowship we hope to deepen and strengthen the spiritual life of the Christian Students of SUNY Morrisville.

### **Caribbean American Student Union (CASU)**

The Caribbean American Student Union of SUNY Morrisville is active in promoting the Caribbean and its culture, customs and trends, and spreading a sense of unity between our campus and community.

### **Casino Management Organization (CMO)**

The Casino Management Organization (CMO) is an on-campus organization based around the students of the Gaming and Casino Management major here at SUNY Morrisville. Although the majority of the members of the CMO are current Gaming and Casino majors, all are welcome. Membership categories are: Student, Education/Faculty, and Industry.

### **Collegiate FFA (CFFA)**

CFFA was established to help broaden the interest and knowledge of students in the field of agriculture, the club's main objective is to provide its members with a learning environment outside of the classroom. Main events throughout the year are: Ag Day- which is an activity that educates elementary students from local schools, as well as students on campus that do not know about agriculture, Fall Weekend trip and support of the Post-Secondary Agricultural Student Organization.

### **Conservation Tri-Society (CTS)**

The mission of the SUNY Morrisville Conservation Tri-Society shall be to promote professional development and networking; encourage extra-curricular education and certification, to stimulate awareness and understanding of environmental sustainability and to foster personal stewardship.

Our mission is founded upon the tenants of the three professional societies. The mission of the Society of American Foresters is to advance the science, education, technology, and practice of forestry; to enhance the competency of its members; to establish professional excellence; and, to use the knowledge, skills, and conservation ethic of the profession to ensure the continued health and use of forest ecosystems and the present and future availability of forest resources to benefit society. The mission of the American Fisheries Society is to improve the conservation and sustainability of fishery resources and aquatic ecosystems by advancing fisheries and aquatic science and promoting the development of fisheries professionals. The Wildlife Society's mission is to represent and serve the professional community of scientists, managers, educators, technicians, planners, and others who work actively to study, manage, and conserve wildlife and its habitats worldwide.

### **Criminal Justice Club**

This club was created to enlighten and provide students with the opportunity to learn more about possible opportunities in the criminal justice field. The Criminal Justice Club provides students the opportunity to improve their knowledge of the common and current laws and get students and faculty members to become interested in the fun and interesting programs in the criminal justice field.

### **Friars' Drama Club**

The theatre club presents one major theatrical production on campus each semester. Participation in this club involves acting, casting and technical crews. Production is open to all students. Members attend local theatre productions in addition to a variety of other events throughout the year.

### **Future Business Leaders of America-Phi Beta Lambda (FBLA-PBL)**

The purpose of the club shall be to aid in the success of the members during and after their college careers. The group shall provide the tools and opportunities for members to build relationships and professional networks with local business professionals; such relationships and networks are quintessential for future career advancement. The group also intends to do numerous community service initiatives and volunteer at various Morrisville community events.

### **Gaming Guild**

This club was created to offer students the ability to gather together and play a unique and diverse set of games. The Gaming Guild provides students with entertainment and enjoyable interaction through the medium of imaginative games. The Club offers a positive recreational opportunity that is open to all students of SUNY Morrisville.

### **Human Performance & Health Promotions Club (HPHP)**

This club, which is open to all students, promotes interest, fun, and education in the field of health and fitness. This club is dedicated to providing social and professional development for its members, as well as to promote health and fitness on campus and in the community.

### **International Food Service Executives Association (IFSEA)**

This association is designed for gaining a better understanding of the professional and practical requirements of food service management, to stimulate discussions concerning the future of the food service industry and to promote friendly relations among people engaged in education and the food service industry.

### **Latino American Student Organization (LASO)**

LASO provides a forum for moral, cultural, and emotional support to Latino students on and off campus. The group also aims to promote multiculturalism and affirmative action principles to the campus community.

### **Massage Therapy Club**

The purpose of the Massage Therapy club is to foster an interest in and raise awareness of Massage Therapy as a profession. The club will promote interaction between members and the professional massage therapy community.

### **Mo'PRIDE**

Mo'Pride is open to all students as well as faculty and staff members. Mo'(Morrisville) PRIDE stands for People Respecting Individual Diversity and Equality. Mo'PRIDE is primarily a group that brings together lesbian, gay, bisexual, and trans-gendered individuals as well as friends, family members, and other individuals (gay or straight) who believe in tolerance and embrace diversity.

### **Morrisville Competitive Gaming (MCG)**

The purpose of this club shall be to facilitate competitive multiplayer gaming, create a community where all can come and play or watch, educate those who are interested in gaming, promote sportsmanship in gaming, and attend gaming related events.

### **Outdoor Recreation Club (ORC)**

The ORC provides a broad range of fun and adventurous outdoor recreational activities to members and non-members. Outings have included hiking, camping, climbing, whitewater rafting, archery and more.

Club functions and activities are compatible with sound conservation



management principles and support, and promote conservation practices to enhance the natural resources of the world.

### **Pagan Alliance of Morrisville (P.A.M.)**

The Pagan Alliance of Morrisville (P.A.M.) is a group open to both students and faculty and staff of the college. P.A.M. brings together individuals who practice nature-based Pagan religions and/or those who are interested in learning more about paganism. Club members also participate in various community service events.

### **Renewable Energy Club (REC)**

The purpose of the Renewable Energy Club is to raise awareness in the field of renewable energy and conservation practices through renewable energy projects both on campus and within the community.

### **Residence Hall Association (RHA)**

RHA is responsible for providing opportunities to build community in the residential population through programming. In addition, RHA members participate in leadership retreats during the year and regional conferences with RHA's from other schools in the northeast. RHA also addresses campus issues specific to the residential population. As a group, RHA works to improve the quality of life in the residence halls.

### **Resident Assistant Association (RAA)**

This association is designed to encourage communication among RAs' and residents on campus. The Resident Assistant Association helps resident assistants to better understand the interests and concerns common to the position.

### **Society of Manufacturing Engineers (SME)**

This is a world-wide organization with senior chapters in most major cities. This society holds technical and social meetings monthly, in addition to sponsoring field trips during the year. Senior chapters offer scholarships, seminars, and workshops to its student chapters. At the end of the academic year, the Society of Manufacturing Engineers offers a certification technology exam. The cost of the membership also includes a monthly magazine.

### **Student Nurses Association (SNA)**

The purpose of this organization is to provide extracurricular activities to enhance educational and cultural enrichment in nursing and to provide a liaison between faculty and students, providing support for all nursing students.

### **Technology Club**

The Technology Club is organized and operated exclusively for educational and scientific purposes to promote an increased knowledge and greater interest in the science, design, development, construction, languages, management and applications of modern computing

## **OTHER CLUBS AND ORGANIZATIONS**

*The following groups are not recognized by SGO. For information on how to become a recognized club, please call the Student Activities Office.*

### **Accounting Society**

The SUNY Morrisville Accounting Society is a campus organization that provides accounting majors with the opportunity to learn about the accounting profession and other topics related to the business world. It provides an informal setting to talk with other accounting students and faculty about topics related to accounting. The Accounting Society also uses meetings to assist students preparing for the Annual Professional Showcase at which students present a portfolio of their academic and personal achievements to a panel of business professionals.

### **Association for Computing Machinery (ACM)**

ACM, the Association for Computing Machinery founded in 1947, is the largest and oldest international scientific and educational organization dedicated to advancing the art, science, and application of information technology (IT). With a world-wide membership poised at fostering an interchange of information between researchers, practitioners, and students under the highest ethical standards, ACM is a leading resource for anyone working in the various fields of IT. It keeps its members updated on new trends, directions and developments in computing and emerging technologies. The Morrisville chapter organizes educational opportunities such as national contests sponsored by IBM and Microsoft, guest speakers, presentations, and workshops. The chapter also arranges social activities including gaming and technology-related-movie nights.

### **American Institute of Architecture Students (AIAS), Morrisville State College Chapter**

The AIAS is an independent, nonprofit national organization for architecture students. The national offices are located in Washington D.C. The AIAS has representation on the board of directors of a number of professional architectural organizations: the American Institute of Architects (AIA), the Association of Collegiate Schools of Architecture (ACSA) and the National Architectural Accrediting Board (NAAB). There are AIAS chapters at most professional schools of architecture in the United States. Members have the opportunity to participate in several national and regional conferences each year. The Morrisville chapter of the AIAS is a voting member of the national organization and has had national representation since its inception. Additional advantages of membership include access to scholarship opportunities, CRIT magazine which features the design work and critical writing of architecture students across the country; and access to other architectural resources as well as technical and promotional literature. This AIAS chapter works in conjunction with the Architecture Club to promote excellence in architectural education, training and practice, and an appreciation of architecture through a variety of activities.

### **Delta Mu Delta**

Delta Mu Delta is an International Honor Society for business programs accredited by ACBSP at the baccalaureate level. Students that are inducted receive lifetime membership, opportunities for scholarships and fulfills one of the requirements for entrance at the GS-7 level in numerous professional and technical positions within federal service. Members may also participate in a variety of campus activities.

### **Eta Sigma Delta**

Eta Sigma Delta is the international honor society that recognizes academic excellence of hospitality management majors. Members engage in community service activities, tutoring, social activities and professional service to the industry.

### **Kappa Beta Delta**

Kappa Beta Delta is an International Business Honor Society for accounting, business, management and office administration programs (including Medical Office Administration AAS program) accredited by ACBSP for two-year degrees. This honor society was established as a way to encourage and reward scholarship and achievement among students who are pursuing the above mentioned associate degrees in ACBSP-accredited institutions. Students who are inducted receive lifetime membership. Scholarships may be awarded to students who are members of this society. Members may also participate in campus club activities such as fund-raisers, food and clothing drives, and campus improvement.

### **Sigma Beta Delta**

Sigma Beta Delta, an International Honor Society for students in business, management, and administration serves institutions which offer baccalaureate degrees in business, management, and administration where the institution holds regional accreditation. Members may also participate in a variety of campus activities.



Students in the Free Enterprise (SIFE)

SIFE is open to all SUNY Morrisville students. The SUNY Morrisville SIFE mission is to help people achieve their dreams through free enterprise education. It provides college students with the best opportunity to make a difference and to develop leadership, teamwork and communications skills through learning, practicing, and teaching principles of free enterprise. Competitions are held yearly (usually in the spring semester) which provide students with excellent exposure among Fortune 500 companies.

National Association Home Builders (NAHB)

The NAHB Student Chapters program provides students in building-related fields such as construction management, engineering, architecture, real estate and the trades an opportunity to learn more about residential building through membership in the industry’s largest trade association. Chapters are located in universities, community colleges, high schools, and vocational/technical institutions across the country. Through this program, students are given first-hand exposure to the building industry and an invaluable complement to their academic studies.

National Organization of Minority Architects (NOMA)

The NOMA student chapter at SUNY Morrisville was established in 2006. NOMA was created in 1971 by a group of African American architects who wanted minority design professionals to work together to fight discriminatory policies that limit or bar minority architects from participating in design and construction programs. NOMA fosters communications and fellowship among minority architects and architectural students. NOMA is an effective source of motivation and inspiration for minority youth. There are NOMA chapters in all parts of the country, with an increasing presence on university campuses.

Office Technology Club

The Office Technology Club is open to all office technology majors. Students elect their own officers and organize their own events. Past events include field trips to local businesses, professional makeover days, guest speakers, and hosting a luncheon honoring graduating students and other individuals who have demonstrated special skills.

Phi Theta Kappa (PTK)

This is the national junior college honor society at SUNY Morrisville. It is composed of freshmen and seniors in the top 10 percent of their divisions, who maintain at least a 3.0 grade point average. The purpose of this society is to promote scholarship, develop character, and cultivate fellowship among all students of junior colleges.

ATHLETICS

Athletic Director: Gregory Carroll  
Athletics Office: 315-684-6072  
morrisvillestateathletics.com

SUNY Morrisville

Intercollegiate Athletic Philosophy Statement

SUNY Morrisville realizes that the total college experience is a balance of activity in and out of the classroom. It is the philosophy of the college’s athletic department that competitive lessons learned on the field of play are often as valuable as those lessons learned off and the ability to apply those life lessons are only enriched through fulfilling athletic experiences.

Athletes at Morrisville State embrace the athletic experience but not at the expense of sportsmanship, ethical behavior, or the health and well being of our student athletes. No victory, regardless of how big the opponent or important the contest is worth the price if it jeopardizes the well being of a student.

For many students, participation in intercollegiate athletics provides not only the opportunity to enjoy the sport of their choice and become the best athlete they can be but also the opportunity to travel to other college campuses. Morrisville State seeks opportunities for athletes to apply the leadership skills they acquire through their athletic experience to the campus and community. Throughout the year teams take part in a variety of service projects and recognize the value of those experiences. The athletic department also recognizes the importance of providing equitable athletic opportunities for male and female athletes and will strive to assure a positive experience for all its athletes.

SUNY Morrisville competes as a Division III member of the National Collegiate Athletic Association (NCAA) and embraces the spirit of Division III athletics and the integration of athletics and academics. In keeping with that spirit coaching staff members at Morrisville recognize the importance of academic success and support their athlete’s on the field of play as well as off. The Morrisville State Athletic Department is committed to the equitable treatment of all athletes regardless of race or gender and embraces diversity as it plays out on the fields and courts of competition across the campus and beyond.

Intercollegiate Athletics

<u>MEN’S</u>	<u>WOMEN’S</u>
basketball	basketball
cross country	cross country
equestrian	equestrian
football	field hockey
ice hockey	ice hockey
lacrosse	lacrosse
soccer	soccer
golf	softball
	volleyball

*The Riding Team competes in Region II (Western) and Region III (Hunt Seat) of the Intercollegiate Horse Show Association.*

Facilities

Drake Stadium

Drake Stadium is a focal point for campus life and serves as home field for six of Morrisville’s 15 athletic teams, supporting a richer residential life experience through expanded intramural programs and building a stronger sense of Mustang pride. With a multi-purpose synthetic turf field, home and visiting team locker rooms, officiating rooms and an impressive press box, the multi-million dollar facility not only expands general admission seating capacity but also intensifies the game-day atmosphere.

The Recreation Center

The Recreation Center is home to many of the college’s athletic department staff including the director of athletics, sports information director, and many members of the coaching staff. In addition the Recreation Center provides the following:

Astroturf Field House

The Recreation Center features a 26,000-square-foot Astroturf field space to accommodate indoor practice needs for field teams as well opportunities for open recreation and intramurals.

Equipment Room Services

The office of the Athletic Department’s equipment manager provides a variety of support services for equipment needs of SUNY Morrisville athletes.

Athletes may have their practice and game apparel laundered through the equipment room so it is ready for their next contest or practice.

### Team Study/Meeting Room

For athletes looking for a quiet place to study the Recreation Center has a room reserved for team and department meetings as well as quiet evening study.

### Athletic Training Services

Intercollegiate athletes at Morrisville State receive first rate care from the athletic department's three full time trainers. There are three separate athletic training rooms located on campus where athletes receive pre-game and post-game care as well a rehabilitation following injuries. An orthopedic doctor reports to campus once a week to evaluate injuries and progress. The training program at Morrisville State is affiliated with Hamilton Orthopedics whose offices are located a short 10 minutes from campus. It is the decision of each student to select whether to utilize a doctor from home or a doctor from the Hamilton Orthopedic group.

### John Stewart Center for Student Activities (STUAC)

The student activities center was completely renovated from 2011-13. The result is a student friendly facility which serves hundreds of students each day. Morrisville State Mustang court teams compete on the hardwood of the John Stewart Center for Student Activities gymnasium. The STUAC gym was completely renovated in 2012 with a high performance Connor Sport Flooring system, as well as new bleacher seating, baskets, scoreboard, and a state of the art public address and sound system. The center, which also houses the brand new fitness center, boasts locker rooms for Mustang basketball and volleyball teams, the football team, along with students and faculty/staff. It is also the home for the director of intramurals, and coaching staff of basketball, volleyball, softball, and football.

### The Fitness Center

Personal fitness is extremely popular among students and faculty staff at SUNY Morrisville. The focal point for those interests is the college's fitness center (constructed in 2012) located in the Student Activities Center. The upper level of the fitness center features an aerobics room as well as 40 different Life Fitness and Precor cardio fitness machines including treadmills, stationary bikes, stair climbers, and elliptical trainers. The cardio line is state of the art with integrated entertainment features as well as virtual training capability. The lower level of the fitness center has a second aerobics room used for spinning classes and other fitness activities as well as more than 30 different muscle group specific machines and a free weight space with racks and benches. There is also a separate free weight room for intercollegiate athletic team training. This space features 10 power racks and benches along with several muscle group machines.

### IcePlex

The SUNY Morrisville IcePlex houses two regulation-sized rinks and serves as home ice for the SUNY Morrisville's Mustang Varsity Hockey Teams, the Cazenovia High School Varsity program, Center State Stampede Youth Hockey Program and Blue Line Hockey School. Several community organizations also call the IcePlex home. The IcePlex hosts hockey tournaments and hockey camps, and attracts a large number of students and community residents for recreational skating. The arena is equipped with 11 locker rooms, offices, lounge, a made-to-order snack bar, and a full-service pro shop. Contact the IcePlex by calling 315-684-6632 or going online at <http://iceplex.morrisville.edu>

### Hamilton Hall Gymnasium

For open recreation and intramural programming students gravitate to the gymnasium in Hamilton Hall.

### Outdoor Facilities

The college's outdoor facilities include a synthetic turf multi-sport playing

field used for intercollegiate athletics and intramurals, horse shoe pits, outdoor tennis and basketball courts, and many playing fields used by the athletic department and the intramural department for practices and activities.

### MSC Intramurals & Open Recreation

At Morrisville, students can build strong minds and bodies. The Intramural Program at SUNY Morrisville strives to offer its students opportunities to recreate in a fun and enjoyable way. The program provides a chance for participation in sports in an organized, competitive environment while structuring the competition among various levels of skill. It should be understood that intramural activities are intended to provide a way for students, faculty and staff of SUNY Morrisville to enjoy activities in an unpressured and fun environment.

Currently the Intramural Program consists of a variety of activities, most of which also have their own leagues and tournaments throughout the course of the two semesters. We offer basketball, football, volleyball, soccer, badminton, tennis, futsal, ice-hockey, lacrosse, ultimate frisbee, kickball, dodgeball, broomball, and open walking and/or running.

Tournament and league play for the 2015-16 academic year included: Indoor Soccer, Dodgeball, Broomball, Basketball, Flag Football, Volleyball. Additional activities sponsored included: ZUMBA, INSANITY, Pilates, Afro-Latin Dance, Spinning, and Yoga.

More than 70 hours of open recreation are offered to participants in the Recreation Center, STUAC gymnasium, Hamilton Hall, and on outside fields. Those who want to stay in shape may also use the well-equipped fitness center as well as numerous outdoor athletic fields.

### Physical Education Steering Committee – Mission Statement & Goals

SUNY Morrisville is pleased to offer a variety of physical education courses designed to promote general physical activity, to promote instruction in the development of various sport skills and exercise activities, and to teach lifetime skills related to overall health, fitness, and wellness. Physical education electives are offered during each semester as five week classes and provide one credit. Students receive a pass/fail grade for participating in these classes and a total of four such credits may be applied toward required graduation credit hours.

Among the goals of the physical education electives offered are the following:

- To promote physical activity and wellness on campus.
- To promote physical activity and wellness for a lifetime
- To expose students to new and different physical activities
- To assist students in the development of skills related to various exercises and sports.
- To expose students to campus recreational facilities and to promote the use of these facilities.
- To teach students lifetime skills to improve their long term health, to reduce their risk of chronic disease, and to enable lifelong independence and well being.

# SCHOOL INFORMATION

## SCHOOL OF AGRICULTURE & NATURAL RESOURCES

**Dean: Dr. Christopher Nyberg**  
**Marshall Hall**  
**Telephone: 315-684-6083**  
**Fax: 315-684-6125**  
**www.morrisville.edu**

Bachelor and associate degree programs housed within the School reflect the various needs of the agriculture industry and natural resource fields. The school prides itself on being able to adapt its curriculum to the fast-paced, technological changes occurring in each of the fields represented by the curricula. There is a focus on student success through applied learning and through an entrepreneurial spirit which is infused throughout the curriculum.

Agriculture (and related business/industry) is the nation's largest industry in terms of number of people employed (22 percent of the national work force), capital investment, total production and services. The need has never been greater for young men and women who possess high levels of agricultural skills to produce, process and market food and fiber while maintaining the delicate balance required to insure a desirable human environment.

Industries which provide capital, machinery, equipment, chemicals, fertilizers, seed and services used in today's food and fiber system will need ever-increasing numbers of technically trained people. Allied areas such as the growing horse industry in New York State, the horticultural industry and local food movement, and agri- or eco-tourism will also need young people with higher levels of technical skills.

In addition to agricultural production and agri-business, the need to maintain, utilize, conserve and enjoy natural resources is becoming increasingly important. Issues such as acid rain, air pollution, water quality, groundwater contamination, and the necessity to develop renewable energy need to be addressed. Technically educated young people are needed more than ever before to address these issues.

Agriculture 2000, a New York state project which studied agriculture today and in the future, indicated that in the last 50 years the structural change in the food and agriculture industry has been most rapid. New technology has resulted in the improvement of the food distribution system, an expansion of markets, the development of new and more efficient products, and an increase in our mobility. A more productive, efficient, and effective food and agriculture system is emerging.

To prepare students for a career with endless possibilities, or to provide them with an educational background for transfer, SUNY Morrisville's School of Agriculture and Natural Resources offers the following programs, which lead to one of four designated degrees and one certificate:

**Bachelor of Business Administration (B.B.A.)**

**Bachelor of Technology (B.Tech.)**

**Associate in Applied Science (A.A.S.)**

**Associate in Occupational Studies (A.O.S.)**

**One-year certificate**

**Academic Programs**

**Agricultural Business (A.A.S.)**

Business

Technology

Transfer

**Agricultural Business Development (B.B.A.)**

**Agricultural Engineering Technology (A.A.S.)**

**Agricultural Mechanics (A.O.S.)**

**Agricultural Mechanics (Certificate)**

**Agricultural Science (A.A.S.)**

Agriculture Technology

Agronomy

Animal Science

General Transfer

**Animal Science - Dairy (A.A.S.)**

**Aquaculture and Aquatic Sciences (A.A.S.)**

**Dairy Management (B.Tech.)**

**Diesel Equipment Technology (A.A.S.)**

**Diesel Technology (A.O.S.)**

**Environmental and Natural Resources Conservation (A.S.)**

**Equine Racing Management (A.A.S.)**

**Equine Science (B.Tech.)**

Equine Breeding Management

Equine Racing Management

Thoroughbred

Standard bred

Equine Science and Management

Western

Hunt Seat

Draft/Driving

Equine Business Management

Equine Rehabilitation and Therapy

**Equine Science and Management (A.A.S.)**

**Horticulture (A.A.S.)**

Horticulture Production

Landscape Management

**Horticulture Business Management (B.Tech.)**

**Landscape Architectural Studies (A.S.)**

**Natural Resources Conservation (A.A.S.)**

**Renewable Energy Technology (A.A.S.)**

**Renewable Resources Technology (B.Tech.)**

**Renewable Energy (B.Tech.)**

**Residential Construction (A.O.S.)**

**Wood Products Technology (A.A.S.)**

**Graduation Requirements**

All graduates of the School of Agriculture and Natural Resources must satisfy the minimum basic requirements of the college for graduation. There are additional course requirements within each major area of study which are determined by the student's faculty advisor and dean. All courses must be approved by the student's advisor. Students planning on graduating from any State University of New York bachelor's degree program must also meet the Board of Trustees mandated general education requirements.

**Accreditation**

The educational program in the Natural Resources Conservation program,

Forest Technology concentration leading to the AAS is accredited by the Society of American Foresters (SAF).

#### **Transfer**

Many students, who earn their associate degree at SUNY Morrisville or community colleges, continue into one of the bachelor degrees at SUNY Morrisville. SUNY Morrisville currently has articulation agreements with a number of community college programs. These agreements are being developed continually and updated and interested students should contact the Admission Office at 800-258-0111, the School Office at 315-684-6056/6083, or the college Website, [www.morrisville.edu](http://www.morrisville.edu), to receive more information.

#### **Student Organizations**

The faculty/staff believe it is important for students to have the opportunity to interact with one another on both a professional and social level. Consequently, many of the departments have formally recognized student organizations to assist students with their academics as well as provide opportunities for socialization.

The School of Agriculture and Natural Resources operates an Agricultural Station comprised of aquaculture, field crops, dairy, equine, forestry, horticulture, organic vegetable production, controlled environmental agriculture (CSEA), renewable energy, agricultural engineering, diesel technology and service components. The station is used as a research and teaching laboratory with specialty facilities for each of the various program areas. Each program area offers internship experiences and cooperative education experiences. The instructional techniques combine faculty lectures, hands-on labs and entrepreneurial experience in agricultural institutes.

Several faculty members have received the Chancellor's Award for Excellence in Teaching as well as the National Institute for Staff and Organizational Development Award for Excellence in Teaching, and the Distinguished Teaching Faculty Award.

## **SCHOOL OF BUSINESS & HOSPITALITY**

**Dean: Dr. Norman A. Faiola**  
**Charlton Hall**  
**Telephone: 315-684-6056**  
**[www.morrisville.edu](http://www.morrisville.edu)**

The School houses programs in business and hospitality as well as individual studies. Students who know their career path can apply directly to the business or hospitality program that will lead them to completion of their goals. Students who are unsure of their career path can enter the individual studies program where trained advisors will help the student develop their goals and set a career path whether it is in business and hospitality, or in one of SUNY Morrisville's other seventy plus degree programs.

#### **Business and Hospitality Programs**

Bachelor and associate degree programs in business and hospitality housed reflect the various needs of the related fields. The programs pride themselves on being able to adapt their curriculum to the fast-paced, technological changes occurring in each of the fields represented by the curricula. There is a focus on student success through applied learning and through an entrepreneurial spirit which is infused throughout the curriculum.

#### **Academic Programs: Business and Hospitality**

**Accounting (A.A.S., A.S.)**

**Business Administration (B.B.A.)**

**Business Administration (A.A.S., A.S.)**

**Casino Careers Professional Development (Certificate)**

**Culinary Arts Management (A.A.S.)**

**Entrepreneurship & Small Business Management (B.B.A.)**

**Food Service Administration (A.A.S.)**

**Gaming and Casino Management (A.A.S.)**

**Medical Office Administration (A.A.S.)**

**Office Administration (A.A.S.)**

**Office Technology/Information Processing (A.A.S.)**

**Office Administration: Office Management (A.A.S.)**

**Office Technology/Word Processing (Certificate)**

**Resort and Recreation Service Management: Technology Management (B.B.A.)**

**Restaurant Management (A.A.S.)**

**Technology Management (B.Tech)**

**Travel and Tourism/Hospitality Management (A.A.S.)**

#### **Individual Studies Program**

The three degree programs (A.A., A.S., and A.A.S.) in Individual Studies provide a unique opportunity for a student to take a very active role in charting his or her academic program. Many students choose the Individual Studies Program when they have career or educational goals that require unique combinations of courses. The advisors of the program work with students to develop an educational career plan best suited to their needs and interests.

There are very few specific course requirements for the Individual Studies degrees. This flexibility allows students to explore career goals; enroll in courses that strengthen students educational background; change direction after a semester or two without substantial loss of credit; and experience a wide range of academic areas in preparation for continuing in a four-year program.

#### **Graduation Requirements**

All graduates of the School of Business and Hospitality must satisfy the minimum basic requirements of the college for graduation. There are additional course requirements within each major area of study which are determined by the student's faculty advisor and dean. All courses must be approved by the student's advisor. Students planning on graduating from any State University of New York bachelor's degree program must also meet the Board of Trustees mandated general education requirements.

#### **International Experience**

In conjunction with other institutions, students at SUNY Morrisville may participate in an international experience. Students from any major may elect to take the international business courses. In addition to the international business courses offered, students in this program may opt for a semester or summer abroad to study and/or a semester or summer abroad to participate in an internship experience.

#### **Transfer**

Many students, who earn their associate degree at SUNY Morrisville or community colleges, continue into one of the bachelor degrees at SUNY Morrisville. SUNY Morrisville currently has articulation agreements with a number of community college programs. These agreements are being developed continually and updated and interested students should contact the Admission Office at 800-258-0111, the School Office at 315-684-6067, or the college Website, [www.morrisville.edu](http://www.morrisville.edu), to receive more information.

Bachelor and associate degree programs housed within the School of Business to School of Agriculture, Sustainability, Business and Entrepreneurship reflect the various needs of the business and hospitality fields. The school prides itself in being able to adapt its curriculum to the fast-paced, technological changes occurring in each of the fields represented by the curricula.



## Accreditation

To insure the academic integrity of its curriculum, several programs are accredited by national accrediting agencies, and others are in the process of obtaining such accreditation. The accounting, business administration, and office technology programs are fully accredited by the Accreditation Council for Business Schools and Programs (ACBSP). SUNY Morrisville is the only college of agriculture and technology in New York State to obtain ACBSP accreditation.

## Faculty

Faculty members in the School of Business and Hospitality belong to several professional organizations including: the Association for Computing Machinery, International Food Service Executives' Association, New York State Hospitality and Tourism Association, New York State Society of CPA's, International Association for Administrative Professionals (IAAP), American Management Association (AMA), Academy of Management, United States Association for Small Business and Entrepreneurship (USASBE), Association of Marketing Educators (AME), National Association of College and University Food Service, National Tour Association, International Food Executive Association, Council on Hotel, Restaurant, Institutional Education (CHRIE), American Hotel and Lodging Association, National Business Education Association, Society for Human Resource Management (SHRM) SUNY Business Council, the National Restaurant Association, Madison County Tourism, and the American Culinary Association.

Several faculty members have received the Chancellor's Award for Excellence in Teaching as well as the National Institute for Staff and Organizational Development Award for Excellence in Teaching, and the Distinguished Teaching Faculty Award.

## Proficiency Credit

Opportunities to earn college credit by passing locally prepared and administered proficiency tests are available in most business degree programs. By providing these tests, the faculty demonstrates its interest in recognizing advanced skill levels already attained by students.

# SCHOOL OF LIBERAL ARTS

**Dean: Dr. Paul F. Griffin**

**Crawford Hall**

**Telephone: 315-684-6081**

**Fax: 315-684-6322**

**www.morrisville.edu**

The degree programs in the School of Liberal Arts provide students with a solid grounding in traditional liberal arts areas in the humanities, social and natural sciences. At the two-year level, students obtain a foundation for further study in a variety of liberal arts majors. The specialized associate degrees in journalism and teacher-education transfer are designed to give students a working introduction to two growing career areas. Our bachelor programs combine four years of liberal-arts learning with focused technical courses and a hands-on approach to the field.

## Bachelor Degrees

The bachelor of science degree in Applied Psychology teaches students how current theories of psychology apply to practical concerns such as management, customer service, human services, interpersonal relationships, social problems, and general problem-solving. The program features a full-time internship and emphasizes hands-on training in information gathering, basic statistics, research methods, and effective communication and will provide students with immediately applicable skills that will be useful across a broad range of situations.

The bachelor of technology in Criminal Justice prepares students for careers in law enforcement, private security and other related areas. The program includes in-depth preparation in criminal investigation and crime scene management as well as coursework in white-collar crime, emergency

planning and terrorism and law enforcement, among other areas. The degree culminates in a fifteen-credit internship designed to give students real-world experience that will provide a competitive edge for obtaining a first job in the field.

The bachelor of science in Journalism and Communication for Online Media has students build on a strong foundation of writing and reporting skills to develop the expertise necessary for a successful career in journalism, public relations, writing and related areas in the public communications field. In addition to campus-based opportunities to work on publications and websites, students in this program benefit from a unique double field experience. The first is a semester-long internship. The second is a capstone project that requires them to share their expertise with a non-profit organization.

The bachelor of science in videojournalism prepares students for careers as communications professionals who have the technical and creative skills to begin with a creative story idea and develop it into a broadcast-ready piece for television, video, or the web. Students focus on developing both writing skills and technical knowledge of current industry practices and participate in both campus-based production labs and a full-time internship experience in the field.

The bachelor of science degree in Science, Technology, and Society encourages students to consider the ethical, political, and social implications of science and technology. The degree combines a detailed study of the liberal arts with an in-depth, eighteen-credit technical core in either Natural Resources or Information Technology. This degree is designed for students who want to relate their technical expertise to larger social and human issues. It also offers a good preparation to students interested in studying law as it applies to these technical fields.

## Associate Degrees

The university-parallel associate in arts degree in Humanities and Social Science equips students with a broad exposure to the humanities, social sciences, and science and math areas that will allow them to go on to further study at the bachelor level either here at SUNY Morrisville or at another institution. The degrees in Teacher Education Transfer (Early childhood, Childhood, and Adolescent) combine required coursework in education and psychology, study in a liberal arts major, and guided fieldwork in area schools. Our associate degree in Journalism Studies provides two years of training in writing, editing, public relations and other aspects of the communications industry. Students from this program usually go on to study for a bachelor degree, including the college's bachelor of science in Journalism and Communication for Online Media.

**The School of Liberal Arts administers the following degree programs:**

**Applied Psychology (B.S.)**

**Criminal Justice (B. Tech.)**

**Criminal Justice, (A.A.S.) Norwich Campus Only**

**Early Childhood (A.A.S.) Norwich Campus Only**

**Human Services (A.A.S.) Norwich Campus Only**

**Journalism and Communication for Online Media (B.S.)**

**Journalism Studies (A.A.)**

**Liberal Arts and Sciences: Adolescence Education (Teacher Transfer) (A.A., A.S.)**

**Liberal Arts and Sciences: Childhood Education (Teacher Transfer) (A.A., A.S.)**

**Liberal Arts and Sciences: Early Childhood Education (Teacher Transfer) (A.A., A.S.)**

**Liberal Arts and Sciences: Humanities and Social Science (A.A.)**

**Science, Technology and Society (B.S.)**

**Videojournalism (B.S.)**



## Faculty

Faculty members in the school belong to several professional organizations, including American Sociological Association, Association for Psychological Science, Society for the Social Study of Science, Association for Education in Journalism and Mass Communication, The Society for Personality and Social Psychology, The Society for the Teaching of Psychology, History of Science Society, World History Association, Historical Association for Corrections, American Correctional Association, Correctional Accreditation Managers Association, Correction and Youth Services Association of New York, Association for Supervision and Curriculum Development and the National Education Association, NYS English Council, Association for Education in Journalism and Mass Communication, Broadcast Educators' Association, College Broadcasters Inc., College Media Advisors, National Association of Broadcasters, Radio/Television News Directors' Association, Student Press Law Center, Society of Professional Journalists, Syracuse Press Club, and The Center for Innovation in College Media.

Several faculty members have received the SUNY Chancellor's Award for Excellence in Teaching as well as the SUNY Morrisville Distinguished Teaching award.

## Transfer

Many graduates of the two-year programs housed within the School of Liberal Arts continue their education in four-year programs, on campus and at other institutions.

## Facilities

The Journalism Department features three interactive production labs where students can gain hands-on experience in paraprofessional situations. Each lab offers one academic credit per semester and is open to all students on campus, regardless of major. They are all housed in the state-of-the art journalism facility in Hamilton Hall. These labs produce the print and electronic versions of The Chimes, the campus newspaper; the photographs used in all the student campus media, and develop live programming on student-operated campus radio station WCVN.

The Criminal Justice program has a crime scene laboratory that allows for the recreation of both interior and exterior environments in which students can gain first-hand experience in learning hands-on investigative skills.

# SCHOOL OF SCIENCE, TECHNOLOGY & HEALTH STUDIES

Dean: Dr. Joseph H. Bularzik

Galbreath Hall

Telephone: 315-684-6079

Fax: 315-684-6024

[www.morrisville.edu](http://www.morrisville.edu)

The following programs are administered by the School of Science and Technology:

**Architectural Studies and Design (A.S.)**

**Auto Body Technology (A.A.S.)**

**Automotive Management (B.B.A.)**

**Automotive Technology (A.A.S.)**

Ford ASSET

**Automotive Technology (B.Tech.)**

**Biology, Pre-Science/preparatory semester/year**

**Computer Information Systems (A.A.S., A.S.)**

**Computer Systems Technology (A.A.S.)**

**Computer-Aided Design Technology (A.A.S.)**

**Dietetic Technician/Nutrition Care (A.A.S.)**

**Health-Related Studies (A.S.)**

**Human Performance and Health Promotion (B.S.)**

**Human Performance and Health Promotion (A.S.)**

**Information Technology: Application Software Development (B.Tech.)**

**Information Technology: Electronic Marketing and Publishing (B.Tech.)**

**Information Technology: End-User Support (B.Tech.)**

**Information Technology: Network Administration (B.Tech.)**

**Information Technology: Web Development (B.Tech.)**

**Information Technology: Management (B.B.A.)**

**Liberal Arts and Science: Mathematics and Science (A.S.)**

**Massage Therapy (A.A.S.)**

**Mechanical Engineering Technology (A.A.S.)**

**Nursing (A.A.S.)**

**Nursing (B.S.)**

## Mathematics and Science Programs

The programs in Mathematics and Science have a two-fold responsibility. The first is to offer A.S. degree curriculums and the second is to provide instruction in mathematics and science to students in all curricula.

The faculty of the school introduces the student to the experimental method in the solution of scientific problems and assists the student in recognizing the value of the scientific attitude in the solution of everyday problems of living.

Many graduates continue their formal education by transferring to programs that represent the next rung in their career ladder development. Others find ready employment in hospitals, health agencies, private industry, and government, as well as technical and computer-related areas. Some of these students continue their education on a part-time basis during employment.

## Health Programs

To ensure the academic integrity of its curriculum, the programs are accredited by national accrediting agencies. The Dietetic Technician Program is accredited by the Accreditation Council for Education in Nutrition & Dietetics (ACEND).

### Accreditation Council for Education in Nutrition & Dietetics

120 South Riverside Plaza, Suite 2000

Chicago, Illinois 60606-6995

312/899-0040, ext. 5400

Email: [acend@eatright.org](mailto:acend@eatright.org)

Website: [www.eatright.org/ACEND](http://www.eatright.org/ACEND)

The associate degree in nursing is accredited by the Accreditation Commission for Education in Nursing (ACEN). 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326 (404-975-5000), [www.acenursing.org](http://www.acenursing.org)

### The State Education Department

Division of Professional Education

89 Washington Avenue, 2nd Floor

West Wing, Albany, NY 12234

(518)-486-2967, [OPPROGS@nysed.gov](mailto:OPPROGS@nysed.gov)

## Facilities

Many of the science courses are taught in Crawford Hall, an \$8 million laboratory/classroom building, second to none in the State University system. Its facilities, equipment and scientific instruments provide students with unparalleled opportunities for laboratory experiences to support the theories and principles of scientific learning. Five laboratories for biology, three laboratories for chemistry and two laboratories for physics are housed in Crawford Hall. The Sports, Nutrition, and Fitness Management facilities are located in the Thomas V. Ciarrocchi Rink

and include state-of-the-art fitness laboratories and classrooms.

Gallbreath Hall includes a 20-station computer-aided design (CAD) laboratory including a state-of-the-art rapid prototype laboratory, four electronics laboratories, a machine tools laboratory, material testing laboratory, hydraulic laboratory, drafting laboratory, and a teaching technology center. Recent additions include a manufacturing laboratory including CNC milling centers and CMM equipment.

The Sheila Johnson Design Center is the home of the Architectural Studies and Design program. This building was constructed on the former site of the college's historic dairy barn. Its form evokes the barn, and like the historic dairy barn, welcomes all at the entrance to the campus. The building was designed and constructed by employing many sustainable strategies resulting in it achieving the United State Green Building (USGBC) Council Leadership in Energy and Environmental Design (LEED) certified certification. Some of the strategies included the use of low volatile organic compounds (VOC) emitting interior finishes, nominal exterior lighting, and the use of interior daylighting. The least obvious strategy, but most innovative, is the geothermal heating and cooling system.

Visitors to the Design Center are initially welcomed into a two story lobby where Architectural Studies and Design student work is displayed. The Design Center contains two floors of studios, a mezzanine critique space, a classroom, an architectural model shop, a conference center, and a faculty office suite. The studios, accessible to the Architectural Studies and Design students 24 hours a day, 7 days a week, contain individual work areas where each student is assigned a drafting table and work table. The students are also provided with wireless network and Internet access, architectural software, large and small format plotting, printing and scanning equipment, a light table, and model photography areas. The architectural model shop contains typical woodworking equipment: scroll saws, a table saw, a band saw, a drill press, sliding compact miter saws, sanding stations, and hand tools. Also found in the shop is a laser cutter, a precise cutting machine that can help in the creation of fine architectural models. This facility and the equipment within, provides a state of the art environment for students.

The Automotive Technology Center is a \$12 million automotive laboratory which includes a 50,000-square-foot auto laboratory and a 12,000 square foot body shop facility, electronics, transmissions, engines, and automotive performance laboratories. In addition, the facility includes two laboratories dedicated to the Ford Motor Company ASSET program. This facility houses the latest in new vehicle diagnostic equipment, repair facilities, and a new car showroom.

A 12,000 square foot auto body facility, with the latest tools and equipment for collision repair and metal fabrication, houses the college's auto body technology program.

A newly renovated Bailey Hall includes state of the art nursing teaching and practice labs which are equipped with technology, equipment, and patient care mannequins that simulate the clinical environment. The Clinical Simulation Learning Center at the Morrisville Campus and the nursing laboratory at the Norwich campus is an integral part of the curriculum. The labs are equipped with video recording technology which offers the opportunity for students to reflect and self-evaluate during the post-simulation debriefing session.

## Bachelor Degree Majors

### AGRICULTURAL BUSINESS DEVELOPMENT B.B.A. – CODE #1914

Agricultural Business Development is a ThinkPad University curriculum in which the use of Laptop computers is integrated into courses.

This degree program includes a strong agriculture and business based curriculum that emphasizes management application to small rural businesses. The program will provide students with the management skills needed to make effective decisions and develop markets for their products. Agricultural businesses in the U.S. range from very small operations (those who are looking to add value to their product) to large enterprises with annual sales in the millions of dollars. Despite the size,

all of these businesses compete with both local and international markets. This dynamic agriculture market must be both constant and revolutionary: constant because of the ongoing challenges of supplying adequate food and related products to the ever-growing diverse world population; revolutionary because of the new research and production techniques that test the abilities of the best managers. To be successful in today's marketplace, farm managers and owners need to spend more time making management decisions and developing management skills and new markets than did the generations before them. (Kays, Edwards-Farm Management)

**Career Opportunities:** This degree responds to the growing interest in ownership and operation of agricultural enterprises in the rural community as well as the agriculture industry and communities which have historically been dependent upon commodity farming. The degree will allow graduates to act as consultants to rural value-added agricultural businesses. Examples of such businesses may include a commercial/family dairy farm business, an on-farm processing business/milk bottling facility, agricultural tourism, and/or a small family-owned agricultural business that supports production agriculture. Graduates will be prepared to bring together and apply their knowledge from previous agribusiness, production agriculture courses, as well as from their internship experience. Expected strong employment opportunities exist for: technical sales representatives, food brokers, accountants, financial managers, market analysts, fruit and vegetable marketing representatives, sales managers, small animal health care distribution and international business specialists. (Employment Opportunities for College Graduates in the U.S. Food, Agricultural and Natural Resources System 2005-2010.)

**Transfer Opportunities:** Transfer into this program is possible from a wide range of college programs. Students from other accredited agriculture and business programs will transfer with the highest number of credits.

**Graduation Requirements:** Graduation requirements for the BBA in Agricultural Business Development include a minimum of 120 credits; 30 hours of General Education; every required course including all required courses as outlined below as well as the Board of Trustees mandated general education requirements (see listing in this catalog).

**Program Learning Outcomes:** Upon completion of the program, and according to the particular concentration of this major, a successful graduate will be able to:

- Create and successfully operate their own agricultural enterprise given the limited resources often available within the rural economy.
- Seek financing and maintain positive relationships with creditors and financial institutions.
- Identify market opportunity and successfully utilize the opportunity to improve farm-level profitability.
- Form, create and maintain effective relationships with the non-agriculture community.
- Develop, manage and maintain and effective interpersonal skills in the corporate and family business setting.
- Question, investigate, analyze, evaluate, and communicate in agribusiness
- Interact with peers toward the accomplishment of effectively collaborating with agribusiness peers
- Analyze and evaluate agribusiness related information and utilize a variety of resources in making decisions or solving problems.
- Adapt to a constantly changing agribusiness environment, and identify realistic goals and inventions for short and long term business planning
- Assess the range of one's abilities, accept responsibility for setting realistic goals, and implement a plan for personal and professional well-being

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
AGBS 100	Agricultural Economics	3
	-or-	
AGBS 225	Environmental Economics	3
	-or-	

ECON 100	Introduction to Microeconomics	3
	-or-	
BSAD 221	Business Statistics	3
AGBS 200	Marketing of Agricultural Products	3
AGBS 230	Agriculture Business Management	2
AGBS 240	Farm Finance and Management	4
AGBS 350	Agricultural Business Development	3
AGBS 305	Agricultural Lending and Decision Making	3
AGBS 400	Distribution and Marketing of Agricultural Products	4
AGBS 450	Agricultural Policy and Development	3
AGBS 405	Capstone in Agriculture and Rural Entrepreneurship	3
AGBS 480	Retailing of Agricultural Products	3
RREN 450	Internship Preparation	1
AGBS 470	Internship in Agricultural Business Development	15
ACCT 100	Accounting Information & Management Decisions	3
	-or-	
ACCT 101	Principles of Accounting I	3
BSAD 221	Business Statistics	3
	-or-	
AGSC 137	Analysis and Inter of Ag Data	2
	-or-	
MATH 123	Elementary Statistics	3
	-or-	
MATH 141	Statistics	3
OFFT 110	Introduction to Spreadsheet Software	1

and one of the following three OFFT courses:

OFFT 100	Introduction to Word Processing Software	1
OFFT 106	Personal Computer Keyboarding	1
OFFT 109	Introduction to Presentation Software	1
	-or-	
CITA 101	Principles of Computer Applications	3
	-or-	
AGSC 132	Intro To Computer Applications in Precision Farming I	3
MATH	As advised to meet SUNY General Education	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
SPAN 101	Beginning College Spanish I	3

Do you want a statement that if they take MATH 123 or 141 they don't need this requirement?

Additional SUNY General Education Credits Required	18
Additional General Elective Credits	29

(Must include 10 Lower Level/10 Upper Level and 9 General)

**Total Program Credits** **120**

\*Electives may be selected from any course with the following subject codes: AGBS/AGEN/AGRO/AGSC/AGNR/ANSC/BIOL/BREW/BSAD/CHEM/DANS/DTEC/ECON/ENSC/ENVT/ERID/ESCI/ESTB/HORT/NATR/RENG/SPPR/NURS/NUTR/RREN/FSAD/EDU/CITA

## APPLIED PSYCHOLOGY B.S. – CODE #1965

In the Bachelor of Science degree in Applied Psychology program, students will learn how current psychological theories apply to practical concerns such as management, customer service, human services, interpersonal relationships, social problems and general problem-solving. The program will also emphasize hands-on training in information gathering, basic statistics, research methods, effective

communication and will provide students with immediately applicable skills that will be useful across a broad range of situations.

An important aspect of the program is a full-time, semester-long internship in a business or human services related setting, as well as extensive preparation for the internship in a course emphasizing job search and professional skills. This required internship component distinguishes our applied psychology B.S. program from a traditional psychology program and provides students with the type of practical experience potential employers look for in entry-level employees.

Like all Bachelor of Psychology degrees, this is not a clinical degree, and does not train students to treat or administer treatment to clients in any way. The completion of this baccalaureate degree will not qualify the holder to apply for, be hired for, or perform the duties related to, employment which involves the provision of services prohibited by New York State Education Law Article 153, Psychology, Paragraphs 7601 and 7601a. This prohibits graduates from SUNY Morrisville who hold a B.S. in Applied Psychology from performing tasks which only licensed providers are authorized to do under state law, such as providing counseling which is only to be done by licensed psychologists.

**Transfer Student:** Cumulative grade point average of 2.5 or higher.

**Career Opportunities:** This degree is designed to educate and prepare students for entry-level employment in two areas of concentration: business and human services.

### Graduation Requirements

- Total hours required 122
- GPA (general and major area if required) 2.0

Students who fulfill the program's required courses (listed below) will have fulfilled SUNY requirements for a Bachelor's Degree, including 60 semester hours of Liberal Arts and Science courses and SUNY General Education Requirements (at least 30 hours of courses across 7 of 10 categories, including Math and Basic Communication.)

**Program Learning Outcomes:** The goals of the applied psychology program are to provide students with a firm understanding of psychological theories and methods and to show students the value and application of these theories and methods to their employment. The outcomes we will measure to assess whether the program is reaching these goals are:

- Ability to analyze real world situations in terms of relevant psychological theories and predict likely results from potential interventions.
- Basic understanding of the methods social scientists use to understand the world, including correlations and experiments.
- Ability to perform basic statistical procedures and interpret the results.
- Demonstrate professional writing ability, including skills in various formats such as memos, technical papers, and note taking.
- Demonstrate basic quantitative literacy, including use and critical analysis of statistical concepts as supporting arguments and meaningful choice of visual aids such as graphs, tables, charts, and figures.
- An understanding of different cultures and subcultures, and how cultural standards and norms influence behaviors.
- Students will also enhance their skills for self-management and improvement, both through theory and practice. As part of the personal development goal, students will be prepared to apply their knowledge and skills towards employment upon graduation.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
PSYC 101	Introduction to Psychology	3
PSYC 103	Introduction to Applied Psychology	1
PSYC 361	Research Methods and Applications I	4
PSYC 362	Research Methods and Applications II	4
PSYC 405	Internship Orientation	1
PSYC 406	Internship in Applied Psychology	12
PSYC 410	Senior Seminar in Psychology	3
PSYC 461	Tests and Measures	3

Two of the following four courses:		6
PSYC 221	Biological Psychology	3
PSYC 241	Child Development	3
PSYC 242	Adolescent Development	3
PSYC 251	Abnormal Psychology	3
PSYC 291	Diversity in Human Context	3
Two of the following five courses:		6
PSYC 304	Industrial/Organizational Psychology	3
PSYC 325	Motivation and Behavior	3
PSYC 381	Personality	3
PSYC 384	Group Behavior	3
PSYC 386	Social Psychology	3
Diversity Course: One of the following five courses:		3
ANTH 101	Introduction to Anthropology	3
HIST 225	Women in the US	3
PSYC 284	Psychology of Gender	3
PSYC 291	Diversity in Human Context	3
SOCI 250	Social Gerontology	3
BSAD 100	Business in the 21st Century	3
CITA 101	Principles of Computers and Applications	3
COMP 310	Advanced Technical Communications	3
COMP 101	Composition and Research	3
COMP 102	Writing about Literature	3
COMM111	Introduction to Speech	3
MATH 102	Intermediate Algebra w/Trig	3
BIOL	Natural Science with a lab	4
	Humanities Elective	3
	Social Science Elective	3
	Foreign Language Sequence	6
	History Sequence:	6
	(HIST 101, 102, 103 or HIST 151, 152, or HIST 161, 162)	
Select 1 of the following concentration options.		
Must complete 12 credits.		
Business Concentration (12 Credits Required)		
BSAD 116	Business Organization and Management	3
BSAD 411	Leadership in Organizations	3
BSAD 215	Human Resource Management	3
	-or-	
BSAD 310	Human Resource Management	3
	Business Elective	3
Human Services Concentration (12 Credits Required)		
HUMS 101	Introduction to Human Services	3
HUMS 201	Counseling and Case Management	3
SOCI 360	Social Movements and Community Change	3
	Human Services elective (as advised)	3
Additional General Elective Credits 21		
(Must include 6 credits of 300/400 level courses)		
<b>Total Program Credits</b>		<b>122</b>
(Students may substitute an approved methods course and the equivalent of MATH 123 – Elementary Statistics for PSYC 361)		

## AUTOMOTIVE TECHNOLOGY B.TECH. — CODE #1611

Automotive Technology (B.T.) is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** The Bachelor of Technology Degree in Automotive Technology at SUNY Morrisville will prepare students for entry into the automotive industry at the technical or supervisory level where technical knowledge of all aspects of the automotive industry is necessary. This course of study goes beyond the technical automotive education provided by a traditional Associate in Applied Science Degree, adding a business management emphasis at the bacca-laureate level.

Students will take courses in traditional automotive areas such as chassis analysis as well as the latest technologies in the automotive field. Students in the degree program will be able to take advantage of SUNY Morrisville's state-of-the-art Automotive Technology Building. The facility provides a technologically sophisticated environment with nine state-of-the-art laboratories including chassis, electrical, emissions, engines, Ford ASSET (Automotive Student Service Educational Training), fuel diagnostics/drivability and performance, R and R (remove and replace), and transmissions. There is a showroom, three classrooms and a chassis dynamometer room where horsepower, torque, emissions and engine data measurements can be taken from a vehicle and transmitted electronically into a classroom. The bays in each laboratory have wireless and hard-wired access into the college's computer network and computerized manual systems gives students quick access to automotive-related information.

Much like a modern dealership, the building provides students with a professional working environment.

**Accreditation:** The Automotive Technology B Tech Program is accredited by the National Automotive Technicians Education Foundation (NATEF).

**Career Opportunities:** The Automotive Technology B Tech Program prepares students for technical or supervisory level positions in the automotive industry.

**Transfer Options:** Transfer into this program is possible from a variety of college programs. Students from other accredited automotive technology programs will transfer with the highest number of credits. To transfer into the program as a junior a student must successfully complete an A.A.S. degree in Automotive Technology with a minimum GPA of 2.0. Students transferring from the A.A.S. degree program in Automotive Body Technology must have a minimum 2.0 GPA and must successfully complete AUTO 103, AUTO 171, AUTO 204 and AUTO 205 (this may require additional semesters).

**Program Requirement:** Students are required to have a tool set and roll around tool box.

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

- Communicate effectively both in writing and in presentations in areas of the Automotive Industry
- Evaluate strategies for solving automotive business related problems
- Perform diagnosis, service and repair of base automotive systems
- Diagnose and repair advanced technology applications
- Demonstrate computer competency for accessing data and documenting automotive repair records
- Identify an automotive related research problem, develop research questions, collect and analyze data and draw conclusions

### Graduation Requirements:

All BT and BBA programs require a minimum of 120 credit hours including 30 credit hours from SUNY general education courses, with courses in seven of the ten SUNY general education categories. SUNY requires that all Bachelor degree programs must have at least 45 credit hours of upper-division courses with 24 credit hours of upper-division courses in the major. To fulfill these requirements along with the required courses for this program, 123 credits are required for this



program. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
AUTO 102	Metals	3
AUTO 103	Internal Combustion Engines I - Theory	3
AUTO 104	Basic Automotive Electrical Systems	3
AUTO 109	Chassis Analysis I	4
AUTO 110	Summer Work Experience	3
AUTO 138	Career Awareness	1
AUTO 155	Intermediate Automotive Electricity & Electronics	3
AUTO 171	Automotive Drivetrains	3
AUTO 202	Auto Body Fundamentals	3
AUTO 204	Automotive Electronics Systems	3
AUTO 205	Electronic Fuel Systems	3
AUTO 209	Chassis Analysis II	4
AUTO 255	Drivability and Performance Problems	5
-or-		
AUTO 259	Auto Body Non-Structural Repair and Refinishing	
AUTO 261	Automotive Air Conditioning and Heating	3
AUTO 309	Advanced Automotive Chassis	4
AUTO 355	Advanced Automotive Diagnostic	3
AUTO 359	Collision & Business Management	3
AUTO 360	Auto Shop Management and Supervision	3
AUTO 371	Advanced Powertrain Management	3
AUTO 380	Auto Parts Inventory Management & Merchandising	3
AUTO 400	Automotive Fleet Management	3
AUTO 420	Auto Industry Internship Orientation	1
AUTO 421	Automotive Industry Internship	12
BSAD 112	Marketing	3
BSAD 116	Business Organization & Mgmt.	3
BSAD 300	Management Communications	3
BSAD 400	Production & Operation Mgmt.	3
BSAD 310	Human Resource Management or (RENG 306)	3
RENG 306	Alternative Fuel Vehicles or (BSAD 310)	2
COMP 101	Composition and Research	3
COMP 110	Technical Communications	3
	As Advised to Meet SUNY MATH GER	3
	As Advised to Meet SUNY Natural Science	3
PSYC 101	Introduction to Psychology	3
PSYC 304	Industrial/Org Psychology	3
Additional SUNY General Education Credits Required		12
<b>Total Program Credits</b>		<b>123</b>

The program contains the 45 upper division credits within the re-quired courses

## AUTOMOTIVE MANAGEMENT

### B.B.A. — CODE #1656

Automotive Management (B.B.A.) is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** The Bachelor of Business Administration Degree in Automotive Management will prepare students for entry level into the industry at the supervisory or management level with technical knowledge of automotive construction and operation.

Courses will combine an emphasis in automotive and business management in the first two years. In the junior and senior years, students will continue with business management with a heavy concentration of automotive management. These courses will consist of: automotive shop management, automotive fleet management and automotive parts management and merchandising. The spring

semester will culminate with an internship in an automotive or transportation-related business.

Students in this degree program will be able to take advantage of SUNY Morrisville's Automotive Technology Building. Set up like a dealership, it provides students with a technologically sophisticated environment with nine state-of-the-art laboratories. There is a showroom where students can hone their sales and management skills, three classrooms and a chassis dynamometer room. The bays in each laboratory are connected to the college's computer network in order to utilize the computerized manual and management system. This gives students quick access to automotive-related information.

**Career Opportunities:** The Automotive Management program prepares students for supervisory or management-level positions in the automotive industry.

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

Communicate effectively both in writing and in presentations in areas of the Automotive Industry

Evaluate strategies for solving automotive business related problems

Assess and evaluate the impact of developing technologies

Identify technology and workforce strategies to enhance overall productivity and effectiveness in automotive business operations

Demonstrate computer competency for accessing data and documenting automotive repair records

Perform diagnosis, service, and repair of base automotive systems

### Graduation Requirements:

All BT and BBA programs require a minimum of 120 credit hours including 30 credit hours from SUNY general education courses with courses in seven of the ten SUNY general education categories. SUNY requires that all Bachelor degree programs must have at least 45 credit hours of upper-division courses with 24 credit hours of upper-division courses in the major. To fulfill these requirements along with the required courses for this program, 121 credits are required for this program. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
AUTO 102	Metals	3
AUTO 103	Internal Combustion Engines I - Theory	3
AUTO 104	Basic Automotive Electrical Systems	3
AUTO 109	Chassis Analysis I	4
AUTO 138	Career Awareness	1
AUTO 202	Auto Body Fundamentals	3
AUTO 204	Automotive Electronics Systems	3
AUTO 205	Electronic Fuel Systems	3
AUTO 209	Chassis Analysis II	4
AUTO 359	Collision & Business Management	3
AUTO 360	Auto Shop Management and Supervision	3
AUTO 380	Auto Parts Inventory Management & Merchandising	3
AUTO 400	Automotive Fleet Management	3
AUTO 420	Auto Industry Internship Orientation	1
AUTO 421	Automotive Industry Internship	12
ACCT 101	Principles of Accounting I	3
ACCT 102	Principles of Accounting II	3
BSAD 108	Business Law I	3
BSAD 112	Marketing	3
BSAD 116	Business Organization & Management	3
BSAD 221	Business Statistics	3
BSAD 300	Management Communications	3
BSAD 310	Human Resource Management	3
BSAD 325	Analytic Marketing	3
BSAD 350	Principles Corporate Finance	3



BSAD 449	Management Policy and Issues	3
CITA 101	Principles Computer and Applications	3
CITA 405	Project Management	3
COMP 101	Composition and Research	3
COMP 110	Technical Communications	3
MATH	As Advised to Meet SUNY MATH	3
	As Advised to Meet SUNY Natural Science	3
ECON 100	Introduction to Macroeconomics	3
	-or-	
ECON 140	Introduction to Microeconomics	3
PSYC 101	Introduction to Psychology	3
PSYC 304	Industrial/Org Psychology	3
Additional SUNY General Education Credits Required		9
<b>Total Program Credits</b>		<b>121</b>

## BUSINESS ADMINISTRATION

### B.B.A. – CODE #0280

Business Administration is a ThinkPad University curriculum using laptop computers integrated into courses. This degree program is offered only at the Morrisville Campus.

SUNY Morrisville's bachelor degree in Business Administration provides students with the opportunity to develop the business practices and skills necessary for planning and directing the management, business, and financial activities of business, government and other organizations. This program is fully accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

Graduates are prepared to coordinate, support and perform a broad range of duties that promote organizational efficiency. The mission of the program is to give students the opportunity to graduate with the ability to identify new opportunities, solve business problems and improve operational optimization. Combining both theoretical and applied teaching, emphasis is placed on concepts, skills and techniques that are immediately transferable in the workplace.

**Transfer Students Required:** Transcripts to show successful completion of an A.A.S. or A.S. degree or 60 hours of lower division course work (from an accredited college or university) with a minimum GPA of 2.5. Completion of MATH 103 – College Algebra (C or better required) or equivalent prior to enrollment in the program

**Career Opportunities:** The New York State Department of Labor maintains employment estimates and projections for more than 700 different occupations in each of 10 regions statewide. For management occupations overall (NAICS 551), the projections indicate an anticipated 17.3 percent plus growth for the 10-year period ending in 2022.

**Graduation Requirements:** A minimum of 120 credits is required for graduation, with a GPA of 2.0 or better. Thirty credits are required in the Liberal Arts and Sciences, and 90 Bachelor of Business Administration major credits (45 must be upper division). Business Administration bachelor degree students must complete 30 credits in a minimum of 7 of 10 SUNY-GER areas. SUNY-GER areas of Mathematic and Basic Communication are required. (See SUNY General Education Requirements in the academic information section of this catalog.) Students must complete through MATH 153 or higher.

#### Program Learning Outcomes:

- To communicate effectively through both oral and written means of communication
- To design, implement and evaluate strategies for identifying new business opportunities
- To design, implement and evaluate strategies for solving contemporary business problems
- To recognize and promote ethical and responsible business practices
- To effectively meld technical knowledge with information technology proficiency

To plan and direct the management, business and financial activities of business, government and other organizations

To utilize quantitative analysis to evaluate operational efficiency, market segment opportunities and business profitability

To identify technology and workforce strategies to enhance overall productivity

To prepare a competitive industry analysis in support of strategic decision making

## CURRICULUM REQUIREMENTS

Required Courses		Credits
BSAD 100	Business in the 21st Century	3
BSAD 108	Business Law I	3
BSAD 116	Business Organization & Mgmt.	3
BSAD 140	Business Communications	3
BSAD 203	Business Law II	3
BSAD 221	Business Statistics	3
BSAD 310	Human Resources Management	3
BSAD 325	Marketing Management	3
BSAD 350	Principles of Corporate Finance	3
BSAD 300	Management Communications	3
BSAD 320	Entrepreneurship	3
BSAD 375	Management Information System	3
BSAD 380	International Business	3
BSAD 400	Production & Operations Mgmt.	3
BSAD 408	Responsible Business Ownership	3
BSAD 411	Leadership	3
BSAD 470	Strategic Management	3
ACCT 101	Principles of Accounting I	3
ACCT 102	Principles of Accounting II	3
CITA 101	Principles of Computer Applications	3
COMP 101	Language and Composition	3
COMP 102	Literature & Composition	3
ECON 100	Introduction to Macroeconomics	3
ECON 140	Introduction to Microeconomics	3
MATH 153	Business Calculus	3
Additional SUNY GER Credits Required		18
Additional General Elective Credits		27
(12 credits required in Upper Division Elective Credits)		
<b>Total Program Credits</b>		<b>120</b>

### Concentrations

The following concentrations may be of value to students who wish to provide prospective employers with evidence of specialized work in an area related to a specific employment opportunity.

#### Marketing Concentration

Design to allow students to play an active role in shaping the future of marketing related activities. Students in this concentration may customize their focus by selecting marketing electives to suit their interests and career objectives.

Suggested electives for Marketing Concentration (Select 12 Credits)

Course	Credits
BSAD 327	Advertising Management
BSAD 329	Consumer Behavior
BSAD 353	Sport Marketing – Strategic App
BSAD 391	Internship in Business
BSAD 419	Global Marketing
ENTR 327	Guerrilla Marketing Tactics for Small Business

#### Sports Management Concentration

Designed to allow students to play an active role in shaping the future of Bright Outlook and New/Emerging sport management options. Students pursuing this concentration may customize their areas of focus by selecting sport management electives to suit their personal interest and career objectives.

Course		Credits
BSAD 343	Introduction to Sport Management	3
And three of the following courses:		
BSAD 353	Sport Marketing	3
BSAD 418	Sport Law	3
BSAD 391	Internship in Business	3
BSAD 443	Strategic Sports Business	3

## CRIMINAL JUSTICE B.TECH. – CODE #0287

The bachelor of technology in Criminal Justice is designed to give students a thorough hands-on preparation for employment in the field, either as public safety officials or in the private sector. Students are challenged by courses that address practical and current issues in law enforcement. In addition to courses in the Criminal Justice area, students will work with advisors to complete a technological sequence with a minimum of nine credits. Examples of technological sequence disciplines include Information Technology, Natural Resources, Economics and White Collar Crime, Adolescents and the Criminal Justice System, and Public Safety and Security. The program also includes a 15-credit full-time internship to give students extensive experience in a real-world Criminal Justice setting.

As a result of new technologies, including forensic sciences, DNA, new evidence collection equipment, crime scene investigation advances, surveillance expertise, computers, and the specialty services instituted since 9/11, the need for a higher level of training and education in the criminal justice field is essential. We have drawn on advances in all areas of the protective services to create this technologically-based academic degree program to support the criminal justice fields with highly qualified personnel.

**Career Opportunities:** This degree is specifically designed to prepare students for careers in law enforcement, security-related fields in private industry, and related.

**Transfer Opportunities:** This degree has been designed to prepare students for work and as such is not intended as preparation for transfer to other academic programs.

### Graduation Requirements:

**Total Hours:** 122      **GPA:** 2.0

**Local Distribution:** 36 Credits minimum

**SUNY General Education:** 30 Credits minimum

### Program Learning Outcomes:

- Identify, collect, and preserve evidence according to standard police practice utilizing traditional, current, and technological methods in a manner that is mutually beneficial to all of the stakeholders in the criminal justice system.
- Recognize and evaluate essential criminal justice-related skills including computer and network threats and vulnerabilities within public and private sectors, competent construction of emergency plans and mutual aid agreements to assist with the interagency cooperation necessary to ensure the public's safety in accordance with nationally accepted procedures.
- Identify and describe diversity and cultural influences in human behavior, particularly in stressful events.
- Assess the effectiveness of nationally accepted procedures and concepts in emergency preparedness.
- Critique the varying goals and priorities of the many disciplines in the criminal justice system.
- Integrate and convey concepts through the application of critical thinking, writing, and communication.

### CURRICULUM REQUIREMENTS

Required Courses	Credits
CJUS 101 Introduction to Criminal Justice	3

CJUS 201	Corrections	3
CJUS 202	Policing	3
CJUS 220	Criminal Investigation I	3
CJUS 221	Criminal Investigation II	3
CJUS 230	Penal Law	3
CJUS 231	Criminal Procedure Law	3
CJUS 301	Crime Scene Investigation and Management	3
CJUS 311	Interviewing Techniques in Criminal Justice	3
CJUS 414	Investigation of Staff Misconduct/Workplace Violence	3
CJUS 449	Criminal Justice Internship Preparation	1
CJUS 450	Criminal Justice Internship	15
COMP 101	Composition and Research	3
COMP 102	Writing about Literature	3
COMP 310	Advanced Technical Writing	3
	As Advised to Meet SUNY GER Foreign Language	6
	As Advised to Meet SUNY GER MATH	3
	As Advised to Meet SUNY GER History	3
	As Advised to Meet SUNY GER Science	3
PHIL 311	Professional Ethics	3
POLI 113	American Judiciary System	3
PSYC 101	Introduction to Psychology	3
PSYC 304	Industrial/Organizational Psychology	3
	-or-	
PSYC 384	Group Behavior	3
	-or-	
PSYC 386	Social Psychology	3
SOCI 101	Introduction to Sociology	3
CITA 101	Computer Applications I	3
WELL 101	Stress and Wellness	3
	-or-	
PHED	Physical Education as advised	3
GNEC 100	FYE	2

Criminal Justice 300/400 Level Elective Credits 12

(12 credits are required from the list of courses below)

CJUS 310	Serial Murders and Criminal Justice	3
CJUS 312	Victimization	3
CJUS 313	Sex Offenses	1
CJUS 314	Diversity within Criminal Justice Systems	1
CJUS 315	White Collar Crime	3
CJUS 316	Animal Abuse Investigations	1
CJUS 401	Emergency Planning and Response	3
CJUS 402	Terrorism and Law Enforcement	3
CJUS 403	Private Security	3
CJUS 404	Use of Force Continuums	1
CJUS 405	Crime Scene Photography	1
CJUS 412	Arson and Bomb Investigation	3
	Technical Sequence Courses as Advised	9

Additional General Elective Credits Required	8
<b>Total Program Credits</b>	<b>122</b>

SAMPLE: Technical Sequence course selection (9 credits)

Students will consult with their advisor and faculty in the technical area and will select a 9 credits that best meet their needs and career plans.

### INFORMATION TECHNOLOGY

Course		Credits
CITA 120	Computer Concepts & Op Sys	3
CITA 140	Introduction to Programming	3
CITA 150	Data Management Techniques	3
CITA 190	Intro to LINUX/UNIX Operating Systems	3
CITA 200	Data Comm. & Networking	3

CITA 201	Visual Programming & Development	3
CITA 260	Photograph & Digital Imag	3
CITA 270	Fund Network Security	3
CITA 305	Computer Crimes and Digital Forensics	3
STS 316	Investigating Cyberculture	3

## NATURAL RESOURCES

Course		Credits
ENSC 106	Pesticide Use and Handling	2
ENVT 100	Intro to Environ. Technology	3
NATR 110	Natural Resources Measurements	3
NATR 120	Intro to Recreation Area Management	3
RENG 102	Renewable Energy Resources	3
RREN 303	Fundamentals of GPS/GIS	3
RREN 305	Renewable Resources Law/Regs	3

## ECONOMICS/WHITE COLLAR CRIME

Course		Credits
ECON 100	Introduction to Macroeconomics	3
ECON 140	Introduction to Microeconomics	3
ECON 300	Money, Banking, & Financial Markets	3
ECON 370	International Economics	3
CJUS 315	White Collar Crime	3
BSAD 101	Business in 21st Century	3
BSAD 116	Business Org & Management	3

## ADOLESCENTS AND CRIMINAL JUSTICE

Course		Credits
CJUS 235	Juvenile Delinquency	3
COMM 131	Small Group Discussion	3
COMM 121	Theories Interpersonal Communication	3
PSYC 242	Adolescent Development	3
SOCI 201	Social Problems 21st Century	3
SOCI 220	Marriage and the Family	3

## PUBLIC SAFETY/SECURITY

Course		Credits
BSAD 107	Legal & Regulatory Aspects of Gaming	3
CAS 103	Casino Security	3
CAS 311	Surveillance & Security Technologies	3
RRMT 450	Security & Safety Chall Intervention	3
SOCI 390	Urban Sociology	3
STS 316	Investigating Cyberculture	3

## POLICING

Course		Credits
CJUS 316	Animal Abuse Investigation	1
CJUS 405	Crime Scene Photography	1
CJUS 314	Diversity within Criminal Justice Systems	1
CJUS 313	Sex Offences	1
CJUS 404	Use o Force Continuums	1
COMM 131	Theories of Interpersonal Communication	3
PHED 150	Self Defense	1
PSYC 242	Adolescent Development	3
RREN 303	Fundamentals of Geospatial Systems	3

# DAIRY MANAGEMENT B.TECH. – CODE #1605

Dairy Management is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

Students are admitted to the baccalaureate program as freshmen with a B- or higher high school average and two units of math and science. SAT or ACT scores are required. Transfer students are admitted to the baccalaureate program by several means that offer flexibility to the student to meet the requirements of

the degree. The student may successfully complete an A.A.S. agricultural degree program in agriculture, where required courses could transfer in the B.Tech. Dairy Management program. The student may also enter the program after completing transferable, college-level course work in either general education or technology-based courses, or transfers from other accredited institutions. A minimum grade point average of 2.0 is required. All bachelor degree programs must complete the State University of New York Board of Trustees mandated general education requirements. Consult your academic advisor for specific details.

The Northeast Dairy Industry has many advantages that are causing growth and creating greater profitability. The resulting growth of the Northeast Dairy Industry is generating a need for qualified people trained in the management of dairy farms and related businesses. Dairy farms, like other businesses, are really about people. The B.Tech. in Dairy Management is designed to prepare students to enter this very dynamic and rewarding industry. The program focuses on enhancing management and herdsmanhip skills. The program focuses on three areas: interpersonal skills such as communication, animal science and business management. The program is very practical and student-oriented, giving students many opportunities to experience working with dairy animals and managing dairy enterprises.

**Facilities:** The facilities include a free-stall complex milking up to 250 registered Holsteins with an electronically enhanced milking parlor and student-managed computer system and a modern calf and heifer facility, which provides a tremendous learning environment for dairy students.

### Dairy Management Experience:

1. A one semester residency at Cornell that allows students to take upper level courses in animal science and farm business management
2. A one semester residency in the W. H. Miner Agricultural Research Institute's Advanced Dairy Management Program
3. A directed dairy-related internship

**Graduation Requirements:** Graduation requirements for the Dairy Management B.Tech. include a minimum of 120 credit hours of course work with a minimum 2.0 GPA. Demonstrated proficiency through MATH 102 - Intermediate Algebra with Trigonometry is required for completion of this program. All bachelor degree students must complete the State University of New York Board of Trustees mandated general education requirements. Consult your academic advisor for specific details.

**Program Learning Outcomes:** Students enrolled in the B.Tech in Dairy Management Program will develop and demonstrate the following characteristics:

- The ability to utilize and demonstrate effective time and human resource management
- The ability to develop problem-solving and critical thinking skills
- The ability to utilize practical knowledge and skill sets pertinent to the dairy and agriculture industries

## CURRICULUM REQUIREMENTS

Required Courses		Credits
DANS 100	Dairy Nutrition	3
DANS 110	Dairy Breeding	3
DANS 115	Dairy Artificial Insemination	1
DANS 120	Anatomy and Physiology of the Dairy Cow	3
DANS 140	Dairy Cattle Judging	1
DANS 150	Dairy Farm Practicum	1
DANS 151	Dairy Techniques	1
DANS 160	Introduction to Dairy Science	3
DANS 210	Dairy Health	3
DANS 220	Dairy Herd Management	3
DANS 225	Dairy Production and Management	3
DANS 250	Dairy Perspectives	1
DANS 301	Dairy Management Experience	16
DANS 305	Dairy Heifer Replacement and Management	3
DANS 340	Advanced Dairy Reproduction	3
DANS 450	Advanced Dairy Herd Management	4

AGBS 100	Agricultural Economics	3
	OR	3
AGBS 225	Environmental Economics	
AGBS 200	Marketing of Agricultural Products	3
ABGS 240	Farm Management and Finance	4
AGBS 305	Agricultural Financial Decision Making	3
AGBS 405	Capstone for Farm Managers & Rural	
	Entrepreneurs	3
AGRO 110	Soil Science	3
AGRO 210	Field Crop Management	3
AGRO 310	Pasture Management	3
	300 - 400 Level BSAD or AGBS as advised	3
	BSAD or AGBS as advised	3
COMP 101	Composition and Research	3
COMP 102	Writing about Literature	3
COMP 310	Advanced Technical Communications	3
AGSC 137	Analysis and Interpretation of Agricultural Data	2
AGSC350	Animal Genetics	3
AGSC 132	Introduction to Computer Applications	
	in Farming	2
	OR	
OFFT 110	Intro to Spreadsheet Software	1
	AND	
	OFFT 100, 106 or 109	1
	ACCT as advised	3
	MATH as advised (must meet SUNY GER)	3
SPAN 101	Beginning College Spanish	3
Additional SUNY GER Needed to fulfill 7 categories and 30 credits (6 credits from 2 of the remaining categories)		6
Additional General Elective Credits		6
<b>Total Program Credits</b>		<b>120</b>

## ENTREPRENEURSHIP & SMALL BUSINESS MANAGEMENT BBA – CODE #1936

Entrepreneurship and Small Business Management is a ThinkPad University curriculum using laptop computers integrated into courses.

This degree will provide students with the opportunity to learn and apply business practices necessary to becoming an entrepreneur and opening their own business. The mission of the program is to afford graduating students with the opportunity to graduate with a diploma, a laptop, and the knowledge to create a business. The program will provide students with technical and business expertise through classroom and hands-on field experiences. The features of this program align with the College's mission of offering baccalaureate degrees with a business nature and a strong emphasis on entrepreneurship and lifelong learning. This program is an "upper division" program for the Junior and Senior years. Accepted students will have an associate degree or 60 hours of lower division course work prior to joining the program.

**Career Opportunities:** This degree will provide students with the opportunity to learn and apply business practices necessary to becoming an entrepreneur and opening their own business.

**Graduation Requirements:** A student graduating with a BBA in Entrepreneurship, in addition to the 30 hours of SUNY required General Education Courses, will have a total of 61 hours of business and entrepreneurship courses consisting of 12 hours of lower division business courses (basic business courses) and 49 hours of upper division courses. A minimum of 121 hours of coursework is required including a 15 credit hour internship in the final semester.

**Program Learning Outcomes:** Students enrolled in the BBA in Entrepreneurship and Small Business Management program will develop and demonstrate the following characteristics:

To communicate effectively in written and oral form in a professional

manner with appropriate style;

To seek, identify, seize and defend realistically opportunities in order to take calculated risks based on gathered information;

To formulate successfully an effective business plan that contains key areas of marketing, management, finance, and operations as a basis for decision-making;

To present essential data for an original idea using appropriate technology by translating all gathered data into a succinct recommendation; and

To identify, procure and organize effectively the needed resources to create and/or operate their own business or aid in transforming other businesses.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
ECON 100	Introduction to Macroeconomics	3
	OR	
ECON 140	Introduction to Microeconomics (preferred)	3
BSAD 116	Business Organization and Management	3
BSAD 221	Business Statistics	3
	OR	
MATH 123	Elementary Statistics	3
BSAD 300	Management Communications	3
BSAD 310	Human Resource Management	3
BSAD 325	Marketing Management	3
ENTR 317	The Entrepreneurial Process	3
	OR	
BSAD 320	Entrepreneurship	3
ENTR 320	Accounting for entrepreneurs	3
	OR	
ACCT 102	Principles of Accounting II	3
ENTR 335	Entrepreneurial Finance	3
	OR	
BSAD 350	Corporate Finance	3
ENTR 342	Innovation and New Venture Creation	3
ENTR 352	Entrepreneurial Value Chain Management	3
	OR	
BSAD 400	Production and Operation Management	3
ENTR 338	Legal Issues for the Entrepreneur	3
	OR	
BSAD 108	Business Law	3
	AND	
BSAD 203	Business Law II	3
ENTR 327	Guerrilla Marketing Tactics for Small Business	3
ENTR 417	Creating the Business Venture	3
ENTR 474	Preparation for Field Study	1
ENTR 475	Practicum in Entrepreneurship/Business	
	Consulting	15
Additional General Elective Credits		3
<b>Total Program Credits</b>		<b>121</b>

## EQUINE SCIENCE B.TECH. – CODE #1321

Equine Science is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

This degree offering focuses on enhancing the management and horsemanship skills at the upper division level. Students must select one of the following options as a specialization: equine science and management (hunt seat, western, or draft concentration); breeding management; racing management (harness racing or thoroughbred racing); equine rehabilitation and therapy or equine business management. A semester of work internship or international exchange program is mandated to complete the degree requirements.

The strengths of the equine science and management program are mainly twofold:



first in the range of courses, which offer practical experience in handling horses. The program provides the student with the opportunity to concentrate on breeding, training, nutrition, and management specifically with horses, rather than with a generalized group of livestock. The second strength of the program is the quality of the faculty, staff and facilities available to the student. The college has two new 100-foot by 200-foot indoor arenas, An 80-foot by 264-foot indoor riding arena, two 100-foot by 200-foot outdoor arenas, a half-mile racing track, three horse barns, a 34,000 square foot breeding and training facility, four hot walkers, Eurociser, paddocks, and all of the associated equipment and supplies necessary for a suitable educational experience. Additionally, there are more than 300 horses on site.

The SUNY Morrisville Equine Rehabilitation Center (SUNY MorrisvilleERC) facility includes a 22,000 square foot rehabilitation center building with classroom and administrative offices, a large rehabilitation treatment area, and ten stalls. A 31-stall barn for the Thoroughbred Racing Program and a 140 by 300 foot indoor riding arena are also located at this facility. Therapeutic modalities available at the Equine Rehabilitation Center include aquatic therapies (underwater treadmill, cold salt water spa therapy, indoor swimming pool), therapeutic ultrasound, laser therapy (Class IIIB), cold compression therapy, solariums, and therapeutic exercises.

Faculty and staff have a broad range of industry experience, including licensure by the United States Trotting Association and/or New York State Racing and Wagering Board as trainers and/or drivers, certification for specific technical areas, and are carded judges for various breed organizations including AQHA, NRHA, APHA, ApHC, NSBA, and NRCHA. The college also has intercollegiate riding teams (hunt seat and western) and state-of-the-art equipment in all facets of the program.

All of the above provide for an industry-ready and quality equine education.

**Equine International Student Exchange Program:** SUNY Morrisville offers an exciting international student exchange opportunity for students enrolled in the bachelor of technology degree in Equine Science. Students attending other colleges and universities may qualify to participate in the Equine International Student Exchange Program as a “visiting student” by contacting the Admissions Office at 800-258-0111.

**Entrance Requirements:** Students admitted into this upper-division baccalaureate program must possess an associate in applied science (A.A.S.) or an associate in science (A.S.) in equine science, animal science or agricultural science with specialization in equine or animal science. A minimum grade point average of 2.5 is required in addition to demonstrated competency by examination where applicable. Students will be expected to treat horses with kindness, respect and compassion at all times and ensure the health and well-being of animals in their care.

**Graduation Requirements:** Graduation requirements for the Equine Science B.Tech. Include the following general requirements plus the requirements from one of the following options: Equine Science and Management, Equine Breeding Management, Equine Racing Management, Equine Rehabilitation and Therapy or Equine Business Management. A minimum of 120 credit hours (with a cumulative GPA of a 2.0 or better) of course work is required including the credits from the Equine Science and Management or Equine Racing Management A.A.S. or transfer of another applicable associate degree. Additionally, all State University of New York bachelor degree candidates must complete the Board of Trustees mandated general education requirements (see listing in this catalog).

**Articulation Agreements:** Currently we have articulation agreements with SUNY Delhi, SUNY Canton, and Medaille College for students completing an AAS in Veterinary Technology to transfer directly into our Bachelors of Technology program. Completion of a specialized short-course in equine handling will be required prior to the student's first semester at Morrisville to ensure the student has adequate horse handling experience to enter into Junior-level courses.

**Program Learning Outcomes:** Upon completion of the program, and according to the particular concentration of this major, a successful graduate will be able to:

Demonstrate safe procedures, sound judgment and critical thinking skills in human and horse interactions when handling on the ground, astride or driving.

Further develop and be able to evaluate proper body position and effective use of seat, leg, hands and/or voice aids for ground-handling, riding or driving.

Conduct the necessary research, analysis, evaluation, and critical thinking skills required of equine management and demonstrate the ability to develop a well-organized approach to address common problems related to equine training and management.

Utilize an understanding of equine behavior and to develop trained responses in project horses.

Develop a balanced ration by evaluating potential feedstuff and utilize the principles of nutrition to meet the needs of horses that is commensurate with varied uses and workloads.

Apply the principles and techniques of modern equine reproduction and evaluate current breeding management practices to improve breeding efficiency.

Utilize a systematic method of evaluating conformation and observing performance to accurately gauge individual improvement and to make qualified comparisons between horses.

Develop and implement health management practices and skills to recognize signs of lameness and a fundamental understanding of treatment therapies.

Develop a positive, confident outlook and a responsible work ethic that is likely to attract success as an equine professional.

Develop sound ethical principles and judgment when dealing with employers, employees, and clients.

Demonstrate the ability to develop and implement a business plan for a small to moderate-sized horse establishment.

\*General Education Requirements (may have been taken in the AAS degree curriculum as transfer credits): The SUNY General Education requirements establish 10 content areas and two competencies that must be met by students receiving a bachelor's degree. Students enrolled in the Equine Science B. Tech degree must complete coursework from 7 of the 10 content areas to include Basic Communication and Mathematics. Refer to the SUNY General Education Courses listed in the front of the current College Catalog for a complete listing of courses to meet these requirements.

All students should seek advisement concerning the proper sequence of courses related to their area of interest.

## CURRICULUM REQUIREMENTS

Required Courses		Credits
ACCT 100	Accounting Information and Management Decisions	3
	OR	
ACCT 101	Principles of Accounting I	3
	OR	
AGBS 250	Decision Making for Agr. Managers	3
AGRO 310	Pasture Management and Forage Production	3
BIOL/CHEM	2 4-credit course with lab (as advised)	8
COMP 310	Technical Communications	3
ESCI 310	Applied Equine Nutrition	3
ESCI 315	Equine Business Management	3
ESCI 420	Equine Internship	15
RREN 450	Internship Orientation	1
AGSC 350	Animal Genetics	3

Students Should Complete One of the Following Options (12 Credits):  
Equine Science and Management Option

ERID 300	Advanced Equine Specialization I	4
ERID 350	Advanced Equine Specialization II	4
ERID 400	Advanced Equine Specialization III	4

Equine Racing Management Option

ESTB 300	Advanced Equine Specialization I	4
----------	----------------------------------	---



ESTB 350	Advanced Equine Specialization II	4
ESTB 400	Advanced Equine Specialization III	4
Equine Breeding Management Option		
ESCI 320	Equine Youngstock Management	1
ESCI 340	Equine Promotion and Sales	3
ESCI 350	Advanced Equine Specialization II	4
ESCI 400	Advanced Equine Specialization III	4
Equine Rehabilitation and Therapy Option		
ESCI 335	Equine Aquatic Therapies	3
ESCI 345	Advanced Equine Anatomy for Equine Rehab	2
ESCI 370	Concepts for Diagnosis in Rehabilitation	1
ESCI 380	Equine Rehabilitation Therapies	3
ESCI 430	Clinical Application of Equine Rehabilitation	4
Equine Business Management Option		
Choose 12 credits of upper division business related coursework		12
AGBS 305	Agricultural Financial Decision Making	
AGBS 350	Agriculture Business Development	
AGBS 400	Agriculture Product Market and Distribution	
AGBS 405	Capstone for Farm Manager	
AGBS 450	Agriculture Policy and Dev.	
AGBS 460	International Agriculture Marketing	
AGBS 480	Retailing Agriculture Products	
BSAD 300	Management Communications	
BSAD 310	Human Resources	
BSAD 320	Entrepreneurship	
BSAD 325	Marketing Management	
BSAD 350	Principles of Corporate Finance	
BSAD 354	Financial Management and Modeling	
BSAD 375	Management Information Systems	
BSAD 380	International Business	
BSAD 400	Production and Operations Management	
BSAD 408	Responsible Business Ownership	
BSAD 411	Leadership in Organizations	
BSAD 415	International Human Resources Management	
BSAD 417	International Financial Management	
BSAD 419	Global Marketing	
BSAD 449	Management Policy and Issues	
BSAD 470	Strategic Management	
CITA 405	Project Management	
Additional SUNY GER Credits Required (6 credits from 2 of the remaining categories)		6
<b>Total Program Credits</b>		<b>120</b>

## HORTICULTURE BUSINESS MANAGEMENT B.TECH. – CODE #1941

**Program Description:** In combining the study of plant science and commercial business management at the baccalaureate level, the Horticulture Business Management degree program is the first of its kind in New York State. The purpose of this program is to provide students entering the horticulture industry with the necessary knowledge, skills, and training to own, manage and/or be gainfully employed in a commercial horticulture business operation. Both nationwide and within New York State, Horticulture is a healthy and dynamic industry that includes several divisions and branches such as: Floriculture; Viticulture; Fruit & Vegetable Crop Production; Greenhouse and Nursery Production; Landscape Development and Management; and Landscape Design. The educational objectives of Horticultural Business Management are to ensure that successful BT candidates acquire all the scientific, technical, critical thinking, and managerial knowledge and skills pertaining to the field of Horticulture.

**Career Opportunities:** The BT in Horticulture Business Management is

consistent with the overall mission of SUNY Morrisville to cultivate the entrepreneurial context of education and to prepare its graduates for career opportunities in existing and emerging areas of agriculture and technology. The programmatic goals of the BT in Horticulture Business Management are to ensure that successful graduates of this program will be qualified to:

Secure entry-to mid-level professional positions in the horticulture industry including retail and wholesale nursery/greenhouse firms, retail garden centers, landscape businesses, food crop production, horticultural product development, and marketing firms.

Assume leadership and supervisory positions in project management of horticultural and landscape endeavors.

Establish and operate a business such as a garden center, nursery, flower shop, landscape contracting or similar business.

Fulfill their long-term entrepreneurial career objectives.

**Transfer Opportunities:** Transfer into this program is possible from a wide range of college programs. Students from other accredited horticulture programs will transfer with the highest number of credits.

**Program Learning Outcomes:** Upon completion of the program, and according to the particular concentration of this major, a successful graduate will be able to:

Demonstrate managerial skills in greenhouse operations, crop production, flower shop operations, and landscape installation

Apply problem-solving skills in greenhouse operations, crop production, flower shop operations, and landscape installation

Utilize current technology, products and services to maximize business efficiency and success

**Graduation Credit Requirements:** 45 Upper Division (300 and/or 400 level courses) credits; 30 hrs. General Education credits, in 7 categories (see Section VI Academic Information in the College Catalog); 122 total credits.

**GPA:** Overall GPA of 2.00 or higher.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
AGRO 110	Soil Science	3
BSAD 108	Business Law I or as advised	3
BSAD 112	Marketing or as advised	3
BSAD 116	Business Org & Management or as advised	3
ENSC 107	Integrated Pest Management	1
HORT 101	Plant Materials	3
HORT 103	Landscape Planning & Design I	3
HORT 106	Floral Design	3
HORT 108	Herbaceous Plant Materials	2
HORT 109	Landscape & Turf Management	3
HORT 110	Horticulture Practices I	2
HORT 200	Greenhouse Management	3
HORT 202	Greenhouse Production	3
HORT 206	Sustainable Landscapes	3
HORT 210	Horticulture Practices II	2
	Elective as advised (AGEN, DTEC, RREN, RESC)	2
HORT 310	Horticulture Practices III	2
HORT 320	Horticulture Internship Orientation	1
HORT 430	Horticulture Business Development	3
HORT 440	Horticulture Business Internship	15
BIOL 102	Botany	3
HORT 241	Plant Protection	3
HORT 201	Plant Propagation	3
HORT 403	Planting Design	4
	Basic Communication as advised	3
	Mathematics as advised	3
Additional SUNY GER Credits Required		11
Additional General Elective Credits (20 credits must be upper division credits)		29
<b>Total Program Credits</b>		<b>122</b>

## HUMAN PERFORMANCE & HEALTH PROMOTION B.S. — CODE #1930

**Program Description:** The Human Performance and Health Promotion degree will prepare students for fitness positions in wellness facilities, as well as in general fitness facilities and gyms. Towards this end, the curriculum will include a strong foundation in math and science, along with basic fitness-related classes in general fitness and wellness, sport psychology, motor learning, strength and conditioning, exercise physiology, exercise appraisal and programming, biomechanics and fitness program administration. Specialized classes will include introduction to exercise field work, emergency response procedures, cardiopulmonary assessment, exercise physiology for special populations, and kinesiology.

The baccalaureate program culminates in two internships designed to provide the student with significant hands-on training and experience in the field of Human Performance and Health Promotion. The first internship involves direct participation in the daily operations of the college-run wellness center. The students will be responsible for all aspects of the operation including administration, management, and exercise programming. The Capstone Internship involves a practical off-campus learning experience immersing students in the day-to-day operations of approved agencies. Sites for internships will include corporate fitness centers, wellness clinics, and community-based health clubs.

**Career Opportunities:** The Human Performance and Health Promotion degree will prepare students for preventative and rehabilitative fitness positions in cardiac rehabilitation and wellness facilities, cardiology offices, hospitals and nursing homes, as well as in general fitness facilities and gyms.

**Program Learning Outcomes:** Upon successful completion of the program, students will be able to:

- Lead, supervise, and effectively guide and motivate individuals in an exercise program.
- Administer Fitness Appraisals in all five core components of physical fitness
- Conduct appropriate measurements and collect data related to exercise science
- Develop, plan and implement effective exercise programs
- Demonstrate ethical personal and professional behavior in all aspects of practice

### Graduation Requirements:

All BS programs require a minimum of 120 credit hours including 30 credit hours from SUNY general education courses, with courses in seven of the ten SUNY general education categories, along with 60 credit hours from Liberal Arts and Science courses. 45 credit hours must be from upper division courses. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher

### CURRICULUM REQUIREMENTS

Required Courses		Credits
HPHP 100	Introduction to Wellness and Fitness	4
HPHP 101	Fieldwork in HPHP (45 hours)	1
HPHP 200	Exercise Physiology I	4
HPHP 201	Exercise Physiology II	4
HPHP 300	Sports and Exercise Psychology	3
HPHP 301	Kinesiology	4
HPHP 304	Community Service in Exercise & Sports Science	1
HPHP 305	Fitness Assessment & Exercise Programming	4
HPHP 400	Application of Strength & Conditioning Principles	3
HPHP 401	Cardiopulmonary Assessment for Exercise	3
HPHP 402	Wellness Center Internship	3
HPHP 403	Exercise Physiology for Special Populations	3
HPHP 404	Fitness Leadership and Administration	3
HPHP 405	Capstone Internship	6
NUTR 110	Nutrition I	3
NUTR 250	Sports Nutrition	3
PHYS 107	Introductory Physics I	4

BIOL 120	General Biology I	4
BIOL 150	Human Anatomy and Physiology I	4
BIOL 151	Human Anatomy and Physiology II	4
MAST 100	CPR for Health Professionals	1
COMP 101	Composition and Research	3
COMP 301	Advanced Technical Communications	3
COMM 111	Introduction to Speech	3
MATH 141	Statistics	3
MATH 151	General Calculus A	3
SOCI 250	Social Gerontology	3
PHIL 201	Introduction to Philosophy	3
PHIL 311	Professional Ethics	3
PSYC 101	Introduction to Psychology	3
PSYC 384	Group Behavior	3
PSYC 386	Social Psychology	3
General Electives (Liberal Arts and Science credits to fulfill 60 credit requirement)		5
Additional SUNY General Education Credits		6
Additional General Elective Credits		7
<b>Total Program Credits</b>		<b>120</b>

## INFORMATION TECHNOLOGY MANAGEMENT - B.B.A. - CODE #2042

Information Technology Management is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** This program is designed to prepare the student to be a new type of business leader for the fast-paced information technology field. Leaders in this industry must have the ability to communicate effectively, deal with complexity, and manage change with a wide diversity of employees and customers. This program uniquely combines technical and business knowledge with management concepts and theory. The capstone full-semester internship will enable students to bridge the gap between theory and practice.

**Career Opportunities:** computer operations manager, chief systems analyst, information systems manager, Web site manager, systems project manager, information systems operations manager. Students may also continue their education to earn an M.B.A., Engineering, Education, or other graduate degree.

**Transfer Options:** Students could transfer to other Information Technology bachelor programs.

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

- Analyze the structure of and create the design for an information system.
- Understand and evaluate the policies and issues associated with organizational management practices.
- Understand and apply the concepts associated with the process for the development of an organizational product or system.
- Synthesize management concepts and information technology concepts to demonstrate an understanding of the management of information systems.

### Graduation Requirements:

All BT and BBA programs require a minimum of 120 credit hours including 30 credit hours from SUNY general education courses, with courses in seven of the ten SUNY general education categories. SUNY requires that all Bachelor degree programs must have at least 45 credit hours of up-per-division courses with 24 credit hours of upper-division courses in the major. These requirements are fulfilled in the following list of courses for this program. GPA: Overall GPA of 2.00 or higher and GPA of 2.00 or higher for CITA required courses

### CURRICULUM REQUIREMENTS

Required Courses		Credits
CITA 110	Introduction to Information Technology	3
CITA 120	Computer Concepts and OS	3

CITA 140	Introduction to Programming	3
CITA 200	Data Communications and Networking	3
CITA 220	Systems Analysis	3
CITA 395+	Internship Orientation Seminar	1
CITA 405+	Project Management	3
CITA 460+	Organization and End-User Info Systems	3
CITA 480+	Information Technology Internship	12
CITA	ELECTIVES	6
CITA	ELECTIVES 300+	9
ACCT 101	Principles of Accounting I	3
ACCT 102	Principles of Accounting II	3
BSAD 108	Business Law I	3
BSAD 116	Business Organization and Management	3
BSAD 221	Business Statistics	3
BSAD 300+	Management Communications	3
BSAD 310+	Human Resources Management	3
BSAD 325+	Marketing Management	3
BSAD 350+	Principles of Corporate Finance	3
BSAD 400+	Production and Operations Management	3
BSAD 449+	Management Policies and Issues	3
BSAD	Elective as advised	3
COMP 101*	Composition and Research	3
ECON 100*	Introduction to Macroeconomics	3
ECON 140*	Introduction to Microeconomics	3
MATH 147*	Selected Topics in Precalculus	3
Additional SUNY GER credits		18
Additional General Elective Credits		5
<b>Total Program Credits</b>		<b>120</b>

\*Courses on the SUNY General Education list

+Upper Division Courses

The Program contains the 45 upper division credits within the required courses

1 MATH, BC, and SS categories are fulfilled in the required courses

Four additional SUNY General Education courses are needed to fulfill the 7 categories requirement

Eighteen additional SUNY General Education credits are needed to fulfill the SUNY requirement

3 Five additional credits are needed to fulfill the 120 credit requirement for a BBA degree

## INFORMATION TECHNOLOGY B.TECH.—CODE #1502, 1504, 1505, 1506

### Application Software Development Code #1502

### End-User Support Code #1504

### Network Administration Code #1505

### Web Development Code #1506

Information Technology is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** Businesses and organizations need information to create competitive advantages in today's dynamic business world. Business people require tools like the Internet, the Web, laptops, smart phones, wireless technology, multimedia, social media, and e-commerce. Typically, business people do not need to understand how the technology works; they simply want it to do the job for them. Information Technology (IT) builds on the foundation of Computer Information Systems, but it has a broader scope. IT seeks to facilitate the business processes of the organization and to make using the tools of the Information Age in the twenty-first century as familiar and natural as using pencils, paper, telephones, radio and TV were in the twentieth century. The information technologist may know how things work, but is equally interested in people and their use of technology to get work done.

Your educational experience will be supported by a robust information technology infrastructure. Students receive practical hands-on experience in their field of study using client and server machines in a high-speed networked environment. These systems support the latest software packages for graphics, animation, web development, video production, databases, voice and data communications, programming, server administration, multimedia development and information

security.

**Career Opportunities:** Network administrator, mobile application developer, game developer, game designer, software developer, Web developer, network security administrator, database administrator, systems analyst, end-user support specialist, technical sales engineer.

**Transfer Options:** Students could transfer to other Information Technology bachelor programs.

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

### Application Software Development

Implement scalable, multi-tier, object-oriented relational database driven application as member of a team.

Utilize formal development methodologies to design and develop software applications.

Utilize a formal project management methodology to plan and track development progress.

Analyze economic feasibility of an IT product.

### End-User Support

Analyze needs and develop an appropriate and effective training program(s) for adult learners.

Identify, assess, utilize and/or deploy the various tools of the trade relative to support professionals.

Demonstrate computer software and hardware maintenance skills.

### Network Administration

Manage, maintain, troubleshoot, install, and configure enterprise network infrastructure.

Manage, maintain, troubleshoot, install, and configure network operating systems.

Configure computer system security, network security, access control, and physical security.

Design networked solutions to facilitate business processes.

### Web Development

Create server environment.

Apply design principles to web publishing.

Build a client-server software framework to separate data, view, and controller logic.

Create dynamic, database driven web applications.

### Graduation Requirements:

All BT and BBA programs require a minimum of 120 credit hours including 30 credit hours from SUNY general education courses, with courses in seven of the ten SUNY general education categories. SUNY requires that all Bachelor degree programs must have at least 45 credit hours of upper-division courses with 24 credit hours of upper-division courses in the major. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher and GPA of 2.00 or higher for CITA required courses

### CURRICULUM REQUIREMENTS

Required Courses		Credits
BSAD 116	Business Organization & Management	3
BSAD 300	Management Communications	3
COMP 101*	Composition and Research	3
COMP 310	Advanced Technical Communications	3
MATH 103*	College Algebra with Trigonometry	3
CITA, ACCT or BSAD	(as advised, 9 upper division)	15

**Application Software Development**

CITA 110	Introduction to Information Technology	3
CITA 120	Computer Concepts & Operating Systems	3
CITA 140	Introduction to Programming	3
CITA 150	Data Management Techniques	3
CITA 200	Data Communications and Networking	3
CITA 210	Visual Programming & Development Tools	3
CITA 220	Systems Analysis	3
CITA 340	Database Concepts	3
CITA 350	Object-Oriented Systems	3
CITA 395	Internship Orientation Seminar	1
CITA 405	Project Management	3
CITA 450	Applied Database Management	3
CITA 460	Organization & End-User Info Systems	3
CITA480	Information Technology Internship	12
CITA	Electives (as advised, 3 upper)	6

**End-User Support**

CITA 110	Introduction to Information Technology	3
CITA 120	Computer Concepts & Operating Systems	3
CITA 140	Introduction to Programming	3
CITA 190	Introduction to Linux/UNIX Operating Systems	3
CITA 200	Data Communications and Networking	3
CITA 210	Visual Programming & Development Tools	3
CITA 220	Systems Analysis	3
CITA 300	Computer System Support and Maintenance	3
CITA 360	Operating Systems and Software Deployment	3
CITA 395	Internship Orientation Seminar	1
CITA 405	Project Management	3
CITA 440	Designing and Managing Organizational Training	3
CITA 460	Organization & End-User Info Systems	3
CITA480	Information Technology Internship	12
CITA	Electives (as advised, 3 upper)	6

**Network Administration**

CITA 110	Introduction to Information Technology	3
CITA 120	Computer Concepts & Operating Systems	3
CITA 140	Introduction to Programming	3
CITA 190	Introduction to Linux/UNIX Operating Systems	3
CITA 200	Data Communications and Networking	3
CITA 210	Visual Programming & Development Tools	3
CITA 230	Network Technology	3
CITA 320	Network and System Administration	3
CITA 370	Network Design Concepts	3
CITA 395	Internship Orientation Seminar	1
CITA 405	Project Management	3
CITA 430	Computer Integration and Interoperability	3
CITA 460	Organization & End-User Info Systems	3
CITA480	Information Technology Internship	12
CITA	Electives (as advised, 3 upper)	6

**Web Development**

CITA 110	Introduction to Information Technology	3
CITA 120	Computer Concepts & Operating Systems	3
CITA 140	Introduction to Programming	3
CITA 190	Introduction to Linux/UNIX Operating Systems	3
CITA 200	Data Communications and Networking	3
CITA 210	Visual Programming & Development Tools	3
CITA 240	Web and E-Commerce Development	3
CITA 310	Web Server Administration	3
CITA 330	Web Publishing	3
CITA 395	Internship Orientation Seminar	1
CITA 405	Project Management	3

CITA 420	Programming for the Web	3
CITA 460	Organization & End-User Info Systems	3
CITA480	Information Technology Internship	12
CITA	Electives (as advised, 3 upper)	6
Additional SUNY General Education Credits		21
Additional General Elective Credits		14
<b>Total Program Credits</b>		<b>120</b>

\*Courses on the SUNY General Education list

+Upper Division Courses

The Program contains the 45 upper division credits within the required courses

1MATH and BC categories are fulfilled in the required courses

Five additional SUNY General Education courses are needed to fulfill the 7 categories requirement

Twenty Four additional SUNY General Education credits are needed to fulfill the SUNY requirement

3Eleven additional credits are needed to fulfill the 120 credit requirement for a B. Tech. degree

## JOURNALISM & COMMUNICATION FOR ONLINE MEDIA B.S.

### – Code #2017

Journalism and Communication for Online Media is a ThinkPad University curriculum in which the use of Laptop computers is integrated into courses.

SUNY Morrisville has a long history of excellence in journalism education. The field of public communication comprises journalism, marketing, advertising, corporate and public relations, publishing, broadcasting, photography, and related disciplines. Online communication relies heavily on a strong background in writing—for print and broadcast—adapted to meet the demands of today's communication technologies. It requires knowledge of elements of broadcasting and photojournalism, including audio and video editing.

This program endows students with a strong background in journalism, including advanced writing and reporting techniques. At the same time, it prepares them to work in digital video, audio, and still-photography production. It provides specialized technical instruction in the application of mass communication and journalism concepts to the World Wide Web. Graduates will be prepared to enter either Web or print communication and journalism. They will be well-prepared to provide content for print or online publications and to design and produce those publications.

**Career Opportunities:** Graduates of this program are fully prepared to work both in the world of journalism and beyond. News agencies—especially newspapers—have a continuing need for Web content providers who can write news content. Marketing and advertising firms also rely on writers who can create Web sites and update them on a regular basis while supplying the content as well. Large corporations maintain sophisticated intranet sites as part of their internal communications programs, relying increasingly on content providers who can transfer their writing to the Web quickly and maintain daily and weekly updates. Students may work in any of these areas or for magazines, television and other media.

**Transfer Admission:** Students who transfer into the JCOM degree from other campuses or from other programs at SUNY Morrisville will have demonstrated abilities consistent with a 2.0 grade-point average in their previous studies. Aptitudes and experience in journalism, public communication, and/or mass media are preferred. Students should understand that it may take more than four years of study at previous institutions and in the JCOM program to complete the bachelor's degree.

A total of 60 credits will be considered for transfer from lower-division coursework, with a maximum of 19 credit hours in journalism. Students who will complete an associate degree at another institution should have completed all 10 required General Education requirements before transferring to the JCOM program.

Upper-division level courses with a grade of C will be considered for transfer as upper division courses (30 credit hours maximum). In accordance with college policies, students must complete thirty (30) hours of upper-division course work at Morrisville.

Degree requirements must be completed within five (5) years of enrollment.



**Graduation Requirements:****Total Hours:** 122**GPA:** 2.0**Program Learning Outcomes:**

Graduates will:

Be familiar with, and prepared to work in, fields related to journalism and public communication in Web-based media

Be able to gather information from diverse sources and summarize that information in straight-news or feature-news formats, or in formats related to public relations or marketing, in Web-based media

Be able to read, write, understand, analyze, and discuss complex issues and topics and to contribute to small- and large-group activities and initiatives in a diverse workplace

Understand the relationship between print and online journalism and broadcasting, desktop publishing, and photojournalism

Demonstrate an understanding of the laws and ethics pertaining to various public communication professions

**CURRICULUM REQUIREMENTS****Required Courses****Credits**

JOUR 111	News Writing and Editing	3
JOUR 185	Production Laboratory I	1
JOUR 112	Advanced News Writing and Reporting	3
JOUR 121	Principles of Press Photography	3
JOUR 186	Production Laboratory II	1
JOUR 214	Specialized Writing	3
JOUR 285	Production Laboratory II	1
JOUR 220	Mass Media and Society	3
JOUR 315	Online Writing and Production	3
JOUR 286	Production Laboratory IV	1
JOUR 270	Desktop Publishing	3
	OR	
JOUR 272	Public Relations	3
JOUR 401	Legal & Ethical Issues of Mass Communication	3
JOUR 409	Pre-Internship Seminar	1
JOUR 410	Internship in JCOM	12
JOUR 411	Capstone Course in JCOM	3
CITA 101	Principles of Computer Applications	3
CITA 260	Photography and Digital Imaging	3
PHIL 311	Professional Ethics	3
COMP 310	Advanced Technical Communications	3
HUMN 300	Visual Communication	3
SOCI 101	Introduction to Sociology	3
PSYC 101	Introduction to Psychology	3
COMP 101	Composition and Research	3
COMP 102	Writing about Literature	3

Two of the following three courses 6

PSYC 304	Industrial/Organizational Psychology	
PSYC 384	Group Behavior	
PSYC 386	Social Psychology	
MATH	SUNY GER Math Requirement	3

General Electives 9

(Must be 300 level or higher)

Additional SUNY General Education Credits 9

Additional Liberal Arts Credits Required 24

**Total Program Credits 122**

Practice, Nursing Informatics, Leadership and Professionalism. Courses Emphasize: public, family and community nursing, advanced health assessment, health promotion, nursing theory, ethics, organizational communications, systems theory, leadership and management. Students engage in a required service learning activity in selected non-clinical nursing courses to combine formal learning with reflection to strengthen a community.

**Clinical experiences are required in:** NURS 450 (67.5 clinical hours) and NURS 481 (90 hours)

**Admission Requirements:** To be admitted to the B.S. nursing degree program, the applicant must be a graduate of a state approved associate degree or diploma program with a minimum cumulative average of 2.5. Two types of admission are possible for a RN interested in earning a B.S. degree in nursing: readmission and transfer.

**Readmission:** Readmission to SUNY Morrisville is for students who are enrolled in or have graduated from the associate degree nursing program and applying for enrollment in the B.S. program.

Students currently enrolled in the Associate Degree Nursing program at SUNY Morrisville, or who have been gone for one semester, who wish to continue to earn the BS in Nursing must:

- Declare their Intent to Enroll in the baccalaureate program (Joint Enrollment Forms are available in the Nursing Office in Bailey Hall)
- Have a minimum cumulative average of 2.5
- Have the appropriate Health Clearance requirements on file in the Student Health Center for the clinical facilities
- Have plans to meet the licensure requirement by the completion of the first semester of the baccalaureate program

Graduates of the Associate Degree Nursing program at SUNY Morrisville, who have been gone more than one semester must:

- Download and fill out the readmission application. Fax or send the form to the Admissions Office.
- Provide a letter explaining your activities since you last attended Morrisville.
- Request any college transcripts obtained since you left Morrisville.
- Morrisville AAS nursing graduates who graduated five or more years prior must apply through the SUNY Application.

**Transfer Requirements:**

Transfer applicants to the baccalaureate program must meet the following requirements:

- Be a graduate of a state approved associate degree or diploma program with a minimum cumulative average of 2.5
- RN Licensure- New York State licensure is required by the completion of the first semester. Students failing to obtain licensure will be unable to progress to the next semester of nursing courses until licensure is obtained
- A total of 60 credits will be considered for transfer from lower division coursework, with a maximum of 33 credit hours in nursing and 27 hours in arts and sciences, including: English, Anatomy and Physiology, Microbiology, Introductory Psychology and Child and/or Human Development. Upper division courses (300 and 400 level courses) with a grade of C+ will be considered for transfer as upper division courses up to a maximum of 30 credit hours. In accordance with college policies, students must complete thirty (30) hours of upper-division course work at SUNY Morrisville.
- Transcripts must be submitted to the Admission Office. Applicants will be formally advised of the appropriateness of transfer credit after admission. Preliminary review is encouraged by contacting the BS Nursing Program Chair or the Program Director of Nursing.
- Degree requirements must be completed within five (5) years of enrollment.

**Career Opportunities:** BS nursing graduates practice in complex healthcare

**NURSING B.S. – CODE #0291**

The baccalaureate program provides RN's the opportunity to enhance their nursing practice in five core concepts: Patient-Centered Care, Evidence-based



systems as providers of direct, evidence-based care to individuals, families, groups, communities and populations. BS nurses also: focus on health promotion and risk reduction in public and community health organizations; design, manage and coordinate care, with an emphasis on patient safety and quality improvement as an active, leading member of the healthcare team. BS nurses work in all settings where individuals, families, groups, communities and populations receive care. Common work settings include: acute, critical care, ambulatory, home and community settings as well as clinics, churches, business and industry, and schools.

**Transfer Opportunities:** Graduates of the BS Nursing program will be able to transfer to masters' level programs in nursing to specialize as a clinical nurse specialist, nurse anesthetist, nurse midwife, nurse practitioner, administrator or nurse educator. BS nurses are also sought for graduate programs in informatics and business, and healthcare administration.

#### Graduation Requirements:

**Total hours required:** 61 credit hours **GPA:** 2.0 overall; 2.33 in NURS courses with a minimum of C+ in each required NURS course.

**Local Distribution:** 31 required credit hours of 300 and 400 level nursing courses; 21 credits of required Liberal Arts & Sciences courses SUNY General Education: 6 credit hours of elective courses to complete 7/10 required areas as advised and a 3 credit general elective.

#### Program Outcomes:

1. 80% of students will complete the program within 150% of stated program length.
2. 80% of students will express satisfaction with the nursing program.
3. 80% of students will be employed within 6-12 months of graduation.

#### Student Learning Outcomes:

1. Incorporate theories and concepts from the arts, humanities, and sciences into the professional nursing role.
2. Assess leadership principles in the provision of quality nursing care.
3. Integrate evidence based practice to guide care in a variety of health settings.
4. Discuss the role of information technology systems in delivery of safe patient care.
5. Analyze the implications of policy on healthcare disparities.
6. Analyze methods to improve health outcomes for populations.
7. Analyze dimensions of communication relate to healthcare environments.
8. Promote population focused interventions based on identified gaps in a healthcare setting.
9. Extend professional identity to practice in a multicultural environment.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
NURS 300	BS Nursing Program Orientation	1
NURS 310	Conceptual Foundations for Professional Practice	3
NURS 330	Health Assessment across the Lifespan	3
NURS 361	Health Promotion across the Lifespan	3
NURS 381	Leadership & Management for Professional Practice	3
NURS 430	Nursing Research and Evidence-Based Practice	3
NURS 431	Healthcare Policy, issues and trends	3
NURS 450	Public, Community and Family Health Nursing	5
NURS 461	Pharmacology for Nursing Practice	3
NURS 481	Clinical Practicum in Professional Nursing	4
BIOL 301	Pathophysiology	3
COMP 310	Advanced Technical Communications	3
MATH 123	Elementary Statistics***	3
BIOL 302	Epidemiology	3

PSYC 386	Social Psychology	3
PSYC 304	Industrial/Organizational Psychology	3
PHIL 311	Professional Ethics	3
	Foreign language SUNY GER	3

Additional SUNY General Education Credits	3
Additional General Elective Credits	3
<b>Total Program Credits</b>	<b>121</b>

\*\*\* Or equivalent statistics course as advised. MAGN 101 [or equivalent] with a grade of C or better is required prior to MATH 123. Applicants may contact the Mathematics Department Chairperson for information on testing out of MAGN 101

## RENEWABLE ENERGY B.TECH. – CODE #2398

Renewable Energy is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

The Renewable Energy Bachelor of Technology (RE B.Tech.) degree provides students with advanced technical education in the rapidly growing field of renewable energy. The RE B.Tech. program focuses on developing skilled graduates who are prepared to enter the job market as system designers, installers, operators, and maintenance technicians for renewable energy systems including grid-tied solar photovoltaic, solar thermal, small wind, micro hydroelectric and multiple renewable bioenergy systems.

Students have the flexibility to customize their area of focus for the RE B.Tech. degree by selecting core and technical electives to suit their personal interests and career objectives through consultation with their academic advisor.

An internship is a recommended course option (3-15 credit hours) in the program that places students in a supervised work environment with a cooperating agency. This provides students with opportunities to gain valuable experience, make professional contacts and build their resumes in preparation for future employment and career decisions. Many placement sites are available in New York State, but students who wish to travel can find opportunities in other parts of the country or abroad. Successful internships have included experiences in solar and wind energy, bioethanol production, and bioenergy systems.

**Career Opportunities:** Graduates from the RE B.Tech. have been successfully employed in the wind, solar, and bioenergy fields as system designers, installation and maintenance technicians, quality control supervisors, and project managers. Graduates are currently working within their chosen renewable energy field in several states across the country and abroad.

**Admissions Requirements:** The RE B.Tech. degree is a demanding curriculum for incoming students as there are strong math, biology, chemistry, physics, and electrical engineering components to the program. A rigorous high school curriculum in math and science is recommended.

**Transfer opportunities:** Students can transfer seamlessly into the Renewable Energy B.Tech. from the Renewable Energy Technology A.A.S program at SUNY Morrisville. Articulation agreements for transfer opportunities into the RE B.Tech. from 2-year programs at other SUNY institutions are also being developed.

**Required tools/equipment:** Laptop, clipboard (with built-in storage recommended), 11-in-1 screwdriver, safety glasses, work gloves, work boots (steel/safety toe), waterproof rubber boots (recommended), hard hat, rain gear (coat and pants/bibs) and cold weather gear (insulated clothing).

**Graduation Requirements:** A minimum of 120 credit hours (with a 2.0 or greater cumulative GPA) is required for graduation with a B.Tech. in Renewable Energy, including all of the courses listed as "Major Requirements" below, with a minimum in each of the following categories of: 40 Major credits total (lower- and upper-division), 25 upper division Major credits (300- and 400-level), 45 upper division credits total, and 33 liberal arts and sciences, with a minimum of 15 credits of Natural Sciences, and demonstrated proficiency through MATH 103 and MATH 141 or MATH 123. All bachelor's degree students must complete the State University of New York Board of Trustees mandated general education requirements (see catalog section titled Academic Information: SUNY General

Education Requirements).

### Program Learning Outcomes:

Upon completion of the RE B.Tech, a successful graduate will be able to:

Describe basic social, political, economic and ecological factors impacting renewable energy resources and systems regionally, nationally and abroad.

Demonstrate problem-solving skills and critical thinking in both hands-on and written technical environments.

Assess renewable energy resources for residential and farm-scale renewable energy systems in wind, solar PV, solar thermal, micro hydroelectricity and/or bioenergy for a wide range of sites and client objectives.

Design residential and farm-scale renewable energy systems in wind, solar PV, solar thermal, micro hydroelectricity and/or bioenergy based on thorough resource assessment and client requirements.

Install, maintain, and troubleshoot renewable energy systems.

Perform an energy site assessment and develop a comprehensive energy system proposal for a prospective client and defend the proposal rationale in written and verbal discussion.

Work safely and responsibly in groups with diverse individuals.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
RENG 101	Electrical Theory for Renewable Energy	4
RENG 102	Renewable Energy Resources	3
RENG 103	Renewable Energy Seminar	1
RENG 150	Analysis Techniques for Renewable Energy	1
RENG 221	Introduction to Small Wind Systems	3
RENG 231	Introduction to Solar Photovoltaics	3
RENG 310	Biomass Energy Resources	3
RENG 460	Systems Integration	1
AGEN 151	Applied Hydraulics for Hydropower	3
AGEN 125	Residential Electrification	3
OFFT 110	Introduction to Spreadsheet Software	1
CAD 181	Introduction to Computer-Aided Drafting	1
COMP 101	Composition and Research	3
	Natural Sciences (as advised)	15
	Mathematics (as advised)	3

24 Credits from Courses listed below:

DTEC 325	Electrical Power Generation	3
RENG 306	Alternative Fuel Vehicles	2
RENG 315	Biomass Energy Resources II	3
RENG 321	Introduction to Micro Hydroelectricity	3
RENG 331	Introduction to Solar Thermal Systems	3
RENG 410	Biomass Energy Conversions I. Bio-chemical	3
RENG 415	Biomass Energy Conversion II. Thermo-chemical	3
RENG 420	Small Wind Systems	3
RENG 430	Solar Photovoltaics Systems	3
RENG 435	Advanced Topics in Solar Photovoltaics	3
RENG 490	Renewable Energy Internship	15
RREN 450	Renewable Resource Internship Orientation	1

Additional SUNY General Education Credits	12
Additional General Elective Credits	36
<b>Total Program Credits</b>	<b>120</b>

## RENEWABLE RESOURCES TECHNOLOGY B.TECH. – CODE #1610

The focus of the bachelor of technology (B.Tech.) degree in Renewable Resources Technology is to provide students with advanced technical education in natural

resources highlighting the communication and business skills needed for graduates in the 21st century.

A full-semester internship is a unique course requirement that places students in a supervised work environment with a cooperating agency. This provides students with opportunities to gain valuable experience, make professional contacts, and build their resumes in preparation for future employment and career decisions.

Most internships are paid. Opportunities exist nationwide in both the public and private sectors. Many placement sites are available in New York state, but students who wish to travel can find opportunities in other parts of the country. Successful internships have included experiences in environmental education, forestry, arboriculture, outdoor recreation management, GIS (geographic information system) mapping, wetlands delineation and management, and wildlife management studies.

An A.S., A.A.S. or equivalent degree with a minimum 2.2 grade point average is a prerequisite for admittance. A student who does not meet this requirement may be admitted on conditional basis. A major in Natural Resources, Environmental Science, Environmental Technology, Aquaculture and Aquatic Science or a closely related field is strongly recommended. An individual seeking to enroll in the Renewable Resources B.Tech. program with an unrelated associate degree may be granted admittance on the condition that prerequisite course requirements (typically 15 credits) in natural resources and environmental technology are met.

**Career Opportunities:** The B.Tech. in Renewable Resources Technology is designed to prepare students for entry into public and industrial jobs at the field, supervisory, and management levels where technical, business, and communication skills are necessary. Students completing the B.Tech. in Renewable Resources can pursue jobs in the forest products industry; the aquatic resources industry, including sport and commercial fisheries, wetland management, and aquaculture; the recreation and tourism industry and environmental technology including water treatment and brownfield reclamation.

**Graduation Requirements:** Students in the Renewable Resources major must complete ALL of the requirements listed below. A minimum of 120 credit hours of course work is required, including the credits from the approved A.S. or A.A.S. degree program.

MATH as advised to meet SUNY General Education is required for completion of this program. All bachelor degree students must complete the State University of New York Board of Trustees mandated general education requirements (see catalog section titled Academic Information: SUNY General Education Requirements).

**Program Learning Outcomes:** Upon completion of the program, and according to the particular concentration of this major, a successful graduate will be able to:

Utilize the developed expertise in concepts, theories, and emerging methodologies to succeed in tackling real-world issues in renewable and natural resource management.

Become an independent, self-motivated professional with the ability to recognize problems in his/her renewable resources technical field of expertise and formulate solutions to such problems.

Conduct himself/herself in a manner consistent with an embodied sense of conservation stewardship.

Assess, analyze, synthesize, and evaluate information objectively and deal professionally and ethically with clients, the public, and agency personnel.

Communicate clearly and effectively using appropriate verbal, visual, electronic, and written techniques necessary to interact in the profession.

Recognize and interpret natural and renewable resource laws and policies.

Demonstrate hands-on experience in renewable resource sampling, inventory, and measurement techniques.

Recognize and interpret natural and renewable resource problems and opportunities across spatial scales from local to global through the implementation and management of geospatial technologies (Global Positioning System -- GPS, Geographic Information System -- GIS, and remote sensing).

Apply critical thinking and problem-solving skills in formulating and evaluating alternative solutions to complex problems in natural and

renewable resource management and recommending and defending best alternatives.

Anticipate, analyze, and evaluate renewable and natural resource issues and opportunities and utilize an integrated approach to ecosystem impact assessment and management.

Exercise life-long learning and management skills developed before graduation and utilize existing technology, products, and services to maximize work efficiency and success.

Seek the input and perspectives of diverse stakeholders regarding renewable and natural resource issues and practice a collaborative spirit in team efforts and project coordination.

Through the securing and successful completion of a 15-credit 600-hour internship, broaden his/her professional backgrounds and develop a comprehensive knowledge of his/her field of expertise and utilize that knowledge in pursuing potential career opportunities.

## CURRICULUM REQUIREMENTS

Required Courses		Credits
ENVT 345	Surface and Ground Water Management	3
RREN 302	Riparian Ecology and Wetland Management	3
RREN 303	Fundamentals of Geospatial Systems	4
RREN 305	Renewable Resource Laws and Regulations	3
RREN 312	Aquatic Sampling Design & Techniques	3
RREN 332	Environmental Planning & Natural Resource Mgmt.	3
RREN 412	Ecosystem Adaptive Management	3
RREN 420	Geospatial Technology Applications I	1
RREN 421	Geospatial Technology Applications II	2
RREN 450	Renewable Resource Internship Orientation	1
RREN 470	Renewable Resource Internship	15
RENG 3XX	Renewable Energy Elective	3
	OR	
CITA 405	Project Management	
BSAD 116	Business Organization and Management	3
BSAD 221	Business Statistics	3
	OR	
MATH 123	Elementary Statistics	3
BSAD 300	Management Communications	3
PHIL 311	Professional Ethics	3
Additional SUNY General Education Credits		4
Lower Level Credits		60
<b>Total Program Credits</b>		<b>120</b>

\* Five of SUNY's general education requirement content areas should be met at the associate level.

## RESORT & RECREATION SERVICE MANAGEMENT: TECHNOLOGY MANAGEMENT B.B.A. – CODE #1627

Resort and Recreation Service Management: Technology Management is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

This program, which builds on associate degrees in Hotel Management, Restaurant Management, Culinary Arts Management, Gaming and Casino Studies, Business Management, Recreation Studies and Resort Management, prepares students for rewarding careers in the global service economy. The curriculum combines resort and recreation management theory, evolving technology applications, business management and operational services. The program includes a semester where seniors fulfill an internship at resort and recreation facilities.

**Career Opportunities:** Management-level positions worldwide at resorts, attractions, vacation excursion companies, hotels, restaurants, sports and

entertainment complexes, theme parks, commercial recreation establishments, casinos and cruise lines, world professional associations and travel-related companies.

### Graduation Requirements:

Minimum total credits required for graduation with appropriate distribution is 120.

A minimum overall average of 2.0 or better is required for graduation. A minimum overall average of 2.0 is required in the required RRMT courses.

Check with your advisor before enrolling. All SUNY General Education Requirements must be satisfied prior to graduation.

Taking courses at other colleges or universities may satisfy some requirements. Prior approval of the department/academic dean is required. Students are required to take a minimum of 45 credits of upper division, 300 - 400 level course work to graduate. At least 30 of these must be in residence at SUNY Morrisville.

**Program Learning Outcomes:** Desired outcomes for Resort and Recreation Service students include, but are not limited to, the following:

Appraise situations and make strategic decisions from a top manager's viewpoint.

Critically evaluate a strategic plan for an organization

Discuss ethical, regulatory, environmental, social, political and technological issues related to human resource management.

Demonstrate methods to motivate staff to maximize revenues, reduce turnover and increase customer satisfaction.

Develop approaches for training a diverse staff.

Explain current technology applications in Resort and Recreation facilities and select software applications appropriate for operational challenges.

Complete needs assessment, design, and implement training programs at the property or corporate level.

Explain the principles of "Hospitality Law" and be able to practically apply the basic legal theory and prevention techniques

Describe factors that have contributed to globalization and global economy as well as their impact on re-sorts.

Describe and implement qualitative and quantitative research methodologies

Collect, synthesize and analyze customer satisfaction data and present findings using various methodologies.

Recognize and explain the liability and compliance issues associated with resort security and safety

Communicate effectively both in written and oral presentations.

Research and analyze the work environment in large, medium and small organizations as well as investigate an employer's expectations in order to secure an ideal job placement

To develop an appreciation of various cultures and global hospitality business practices and discuss the intricacies of particular regions of the world.

## CURRICULUM REQUIREMENTS

### Required Courses

Credits		
TOUR 106	Introduction to the Hospitality Industry	3
	OR	
FSAD 200	Internship in Customer Service	3
CORE 100	Any 100 level CAS, CUL., NUTR,	6
	FSAD or TOUR except TOUR 106 and TOUR 153	
TOUR 153	Hotel Operations	3
CORE 200	Any 200 level TOUR, FSAD, CAS, CUL., BSAD	10
	Except FSAD 201 and TOUR 251	
CORE	TOUR 251, FSAD 201 or CAS 251	2
RRMT 320	Legal Implications in the Resort and Recreation Industry	3

RRMT 430	Assessment of Customer Satisfaction	3
RRMT 440	Tech Applications for Resort and Recreation Management	4
RRMT 425	Training Design and Implementation – Hospitality	3
300- 400	RRMT, BSAD, BREW, CUL, TOUR, CAS or ENTR electives	12-15
RRMT 470	Graduate Work Experience Orientation Seminar 2	
RRMT 480	Resort and Recreation Service Graduate Work Experience	12
ACCT 100	Accounting Information and Management Decisions OR	3
ACCT 101	Accounting Information and Management Decisions	3
BSAD 107	Legal & Regulatory Aspects of Gaming & Hospitality OR	3
BSAD 108	Business Law	3
BSAD 221	Business Statistics OR	3
RRMT 398	Hospitality Analytics OR	3
MATH 141	Statistics	3
FSAD 153	Fundamentals of Hospitality Management OR	3
BSAD 116	Business Organization and Management OR	3
CAS 104	Contemporary Issues in HR for the Hospitality Industry	3
CAS 240	Hospitality Sales & Marketing OR	3
BSAD 112	Marketing OR	3
FSAD 205	Food and Beverage Merchandising and Mgmt.	3
CITA 101	Introduction to Computers	3
FSAD 257	Career Seminar	1
BSAD 310	Human Resource Management	3
BSAD 449	Management Policies and Issues	3
MATH	As Advised to meet SUNY GER	3
COMP	As Advised to meet SUNY GER	3
Additional SUNY General Education Credits		24
<b>Total Program Credits</b>		<b>120</b>

## SCIENCE, TECHNOLOGY & SOCIETY B.S. – CODE #2014

**Program Description:** One part of the mission of SUNY Morrisville is “to offer a high quality educational experience for students earning...baccalaureate degrees. The college is committed to providing students the knowledge and opportunity to grow intellectually and socially as citizens of the world community.” The Science, Technology, and Society (STS) program contributes to this part of the mission of the college by utilizing the technology available on campus to stimulate further knowledge about its meaning in our society. The overlap between the liberal arts and technical fields is becoming more obvious as technology is more deeply integrated into our social life and our culture every day, and the interdisciplinary aspects of the STS program recognize this interaction. The STS program offers a Bachelor of Science degree that reflects not only the importance of substantive technical and scientific knowledge, but also seeks to understand it in the larger perspective of our society.

**Career Opportunities:** The career objectives for graduates will specifically relate to the technical option chosen. Completing the environmental conservation option will prepare graduates for jobs in government (at the Department of Environmental Conservation, Department of Transportation, education, political policy positions, etc.), environmentally focused non-governmental organizations (The Nature Conservancy, Sierra Club, Adirondack Mountain Club, NYPIRG,

Trout Unlimited, etc.), and in the private sector (environmental/science journalism, museum curator, health administration, grant writing and consulting, etc.). Completing the information technology option will pose graduates for jobs in government (education and training, political campaign work, technology policy positions, etc.) and in the private sector (securing positions in knowledge management, web site development, network analysis, design and implementation, etc.).

**Transfer Opportunities:** Because the bachelor of science degree is not terminal, further graduate study may be pursued at many of the major universities offering advanced STS study (such as RPI, Cornell, Virginia Tech, MIT, Drexel University, University of Pittsburgh, University of Notre Dame, and many others) or related study (industrial and labor relations, law school, or advanced degrees in computer or environmental science, sociology, philosophy, anthropology, etc.).

**Transfer Admission:** Transfer students should have a 2.5 GPA or higher and have fulfilled any articulation requirements prior to admission.

**Graduation Requirements:** Total Hours: 124, GPA 2.0, Local Distribution: Minimum 60 Hours, SUNY General Education: Minimum 30 Credit Hours, Math competency through MATH 102 is required for this program

**Program Learning Outcomes:** Desired outcomes for STS students include, but are not limited to, the following:

Comprehension of the interdisciplinary nature of STS, as measured by ability to analyze specific problems, translate knowledge into new contexts (activism or policy contexts, for example), interpret facts, and predict consequences;

Ability to synthesize scientific and technological ideas within cultural contexts, taking into mind specific social values and meanings (such as the role of expertise in policy making and the value of social movements in technological decision-making processes) of particular sciences and technologies;

The development of the application of the theories, methods, and concepts of STS to the student's particular area of technical option.

The development of marketable skills in computer information technologies (for example web site design, network systems design and analysis, applications programming) and/or renewable resources (fisheries and wildlife, environmental sciences, environmental technology, natural resources conservation and ecology);

The enhancement of information literacy skills, defined as competency in seeking information that is available in any format, ability to critically evaluate information, and to effectively utilize the information that is found.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
SOCI 101	Introduction to Sociology	3
	Math Elective	3
	Lab Science Elective	4
	American History Elective	3
	Western Civilization Elective	3
	Other Worlds Civilizations Elective	3
	Art/Music Elective	3
	Foreign Language Elective	3
	Upper Division Liberal Arts as Advised	3
STS 101	The Values of Science and Technology	3
HIST 181	History of Technology to 1800	3
HIST 182	History of Technology from 1750	3
COMP 220	Writing in the Disciplines	3
STS 401	Advanced Topics in STS	3
STS 411	STS Senior Seminar	3
PHIL 201	Introduction to Philosophy	3
15 Credits from the 7 courses below:		15
STS 301	Humans v. Nature	3
STS 316	Investigating Cyberculture	3
PHIL 311	Professional Ethics	3



SOCI 201	Social Problems	3
SOCI 390	Urban Sociology	3
LITR 342	Science Fiction	3
HUMN 300	Visual Communication	3
Technical Credits Required		36
Additional General Elective Credits		18
<b>Total Program Credits</b>		<b>124</b>

### Technical Option List

Students are required to take a total of 36 credits in the technical concentration. Courses will be chosen from the lists below or from other appropriate campus course offerings in consultation with the academic advisor, who will in turn consult with the steering committee and the affected departments to ensure that students are following a sequence of courses that is coherent.

### Information Technology:

Designed for students who want to focus on the relationship between digital technology and its wider social context.

Lower Division		Credits
CITA 110	Introduction to Information Technology	3
CITA 120	Computer Concepts and Operating Systems	3
CITA 140	Introduction to Programming	3
CITA 200	Data Communications and Networking	3
CITA 220	Systems Analysis	3
CITA 260	Photography and Digital Imaging	3
CITA 230	Network Technology	3

### Upper Division

CITA 310	Web Server Administration	3
CITA 320	Network Administration	3
CITA 325	Network Defense & Countermeasures	3
CITA 330	Web Publishing	3
CITA 335	Enabling Technologies for Electronic Commerce	3
CITA 370	Network Design Concepts	3
CITA 380	Dynamic Graphics and Animation	3
CITA 400	Quantitative Approaches to Management	3
CITA 405	Project Management	3

### Renewable Resources Technology:

Designed for students who want to focus on the relationship between natural resources and their wider social contact.

Lower Division		Credits
NATR 100	Introduction to Forestry and Natural Resources	3
NATR 101	General Ecology	3
NATR 110	Natural Resources Measurements	3
NATR 112	Forest Protection	3
NATR 115	Forest Ecology	3
NATR 150	Aquaculture	3
NATR 215	Practices of Silviculture	3
NATR 232	Wildlife Ecology and Management	3
NATR 250	Aquatic Ecology	3
NATR 252	Fish Ecology and Management	3

### Upper Division

RREN 302	Riparian Ecology and Wetland Management	3
RREN 303	Fundamentals of GPS/GIS	3
RREN 305	Renewable Resources Laws and Regulations	3
RREN 332	Environmental Planning & Natural Resource Mgt	3
RREN 412	Ecosystem Adaptive Management	3

## TECHNOLOGY MANAGEMENT – B.TECH- CODE #1318

Technology Management is a ThinkPad University curriculum using laptop computers integrated into courses.

The Technology Management degree program allows graduates in specialized A.A.S. program areas to combine their technical expertise with a firm understanding of fundamental business functions. By combining business education with enhanced technical skill sets, graduates will be prepared to assume the role of supervisor or management trainee in a contemporary, technology-driven environment.

This program provides students with technical and business expertise through classroom and hands-on field experiences. These features align with the college's mission of offering baccalaureate degrees with a business nature and a strong emphasis on technology and lifelong learning. While maintaining course flexibility, the program prepares professionals who identify and implement effective approaches to solving business problems and improve specialized business operation processes.

**Admission Requirements:** A.A.S. or A.S. or 60 hours of lower division course work (from an accredited college or university) with a minimum GPA of 2.3. Completion of Math 102 - Intermediate Algebra with Trigonometry (C or better required) or equivalent prior to enrollment into the program.

### Career Opportunities:

- Entry-level positions as front-line professionals
- Field operatives with advanced technical training
- Front-line supervisors or management trainees
- Entry-level business leadership roles in specialized fields

**Graduation Requirements:** Students must have completed a total of 121 credit hours including 60 credits of prior studies, 15 hours of lower division courses and 46 hours of upper division courses, for a total of 121 credit hours. Within this total of credit hours, students must complete 12 hours of instruction in a Technology/Business Core. The specific courses that comprise this core will depend on the student's prior lower division course work and future interests. Students must also complete 45 credit hours at the 300-400 level, of which 30 credits must be earned in residence at Morrisville. Finally, 30 credit hours must be earned in at least 7 of 10 SUNY General Education Categories and an overall GPA of 2.0 will be required for graduation.

### Program Learning Outcomes:

- Communicate effectively both in writing and in presentations
- Evaluate strategies for solving business problems
- Recognize and promote ethical and responsible business practices
- Utilize quantitative analysis to evaluate current and future market segment opportunities
- Apply quantitative analysis to evaluate business profitability
- Assess and evaluate the impact of developing technologies on business opportunities
- Identify technology and workforce strategies to enhance overall productivity
- Prepare a competitive industry analysis in support of strategic decision making

### CURRICULUM REQUIREMENTS

Required Courses		Credits
ACCT 100	Accounting Information & Mgmt.	3
	OR	
ACCT 101	Principles of Accounting I	3
CITA 101	Principles of Computer Applications	3
	OR	
OFFT	100, 109 and 110	3
BSAD 116	Business Organization and Management	3
	OR	



AGBS 230	Agricultural Business Management	3
	AND	
AGBS 240	Farm Management and Finance	4
BSAD 221	Business Statistics	3
BSAD 300	Management Communications	3
BSAD 408	Responsible Business Ownership	3
	OR	
PHIL 311	Professional Ethics	3
	300-400 Business/Technology Core Elective	12
CITA 395	Internship Orientation Seminar	1
	OR	
ENTR 474	Preparation for Field Study	1
TECH 480	Internship	15

Please Select Two of the Following Four: (6 Credits)

BSAD 310	Human Resource Management	3
BSAD 320	Entrepreneurship	3
BSAD 325	Marketing Management	3
BSAD 400	Production and Operations Management	3
ECON 140	Intro to Microeconomics	3
	OR	
ECON 101	Intro to Macroeconomics	3

Diesel Technology Option (Select 12 Credits)

AUTO 360	Automotive Shop Management And Supervision	3
DTEC 325	Electrical Power Generation	3
DTEC 350	Advanced Diesel Fuel Systems	3
AUTO 380	Automotive Parts Inventory Mgt & Merchandising	3
AUTO 400	Automotive Fleet Maintenance	3
RENG 305	Renewable Energy Systems	3

General Management Option (Select 12 Credits)

BSAD 320	Entrepreneurship	3
BSAD 327	Advertising Management	3
BSAD 350	Principles of Corporate Finance	3
BSAD 375	Management Information Systems	3
BSAD 380	International Business	3
BSAD 400	Production and Operations Management	3
BSAD 411	Leadership in Organizations	3
BSAD 415	International Human Resources Management	3
BSAD 419	Global Marketing	3
BSAD 449	Management Policy and Issues	3
CITA 405	Project Management	3
ENTR 317	Entrepreneurial Process	3
ENTR 342	Innovation and New Venture Creation	3
ENTR 327	Guerilla Tactics for Small Business Marketing	3

Medical Office Technology Option

OFFT 301	Advanced Medical Coding	3
OFFT 335	Advanced Medical Transcription	3
PSYC 304	Industrial/Organization Psychology	3
PSYC 384	Group Behavior	3
PSYC 386	Social Psychology	3
BSAD 320	Entrepreneurship	3
ENTR 327	Guerilla Marketing Tactics for Small Business	3
COMP 310	Advanced Technical Communications	3
BSAD 411	Leadership in Organizations	3

Renewable Energy Option (Select 12 Credits)

RENG 306	Alternative Fuel Vehicles	3
RENG 310	Biomass Energy Resources	3
RENG 315	Biomass Energy Resources II	3
RENG 321	Introduction to Micro Hydroelectricity	3
RENG 331	Introduction to Solar Thermal Systems	3
RENG 420	Small Wind Systems	3
RENG 430	Solar PV Systems	3

RENG 410	Biomass Energy Conversions I. Bio-chemical	3
RENG 415	Biomass Energy Conversions II. Thermo-chemical	3
RENG 460	Systems Integration	1
	Sport Management Option (Select 12 Credits)	
BSAD 343	Sport Management	3
BSAD 353	Sport Marketing	3
BSAD 418	Sport Law	3
BSAD 443	Sport Strategy	3
	Additional SUNY General Education Credits	30
	<b>Total Program Credits</b>	<b>121</b>

## VIDEOJOURNALISM B.S. – CODE #2096

The bachelor degree in videojournalism provides students with the skills and hands-on experience in the classroom and in the field that will allow them to secure jobs and succeed in the dynamic world of contemporary media. Students acquire and reinforce basic skills in broadcast news writing and scripting, investigative research methods, video producing strategies, audio and video editing. The program is housed in a newly redesigned classroom and studio area that was designed to replicate industry working conditions.

The ever increasing number of media outlets seeking professionals who can quickly and effectively bring well-crafted video stories to air means that the job market for videojournalists or content producers who can take a story from conception through writing, shooting, editing and broadcast is strong. The B.S. in videojournalism is designed to provide students with state-of-the-art technical instruction, based on a solid foundation of writing, editing and business skills. Graduates spend several semester creating a portfolio of work that will give them a strong advantage in entering the job market in whatever aspect of the communications field that they choose, either as part of an existing organization or as free-lancers. Students also have a full-time internship chosen in conjunction with their advisor to allow them to get business experience in the area of communications in which they will seek their first job.

**Career Opportunities:** Entry-level positions in media outlets and corporations or as a freelance content producer.

**Transfer Opportunities:** A college grade point average of 2.0 or higher is required to transfer into this program.

### Graduation Credit Requirements:

44 hours major courses, 11 hours business courses, 12 hours required electives, 30 hours general education, 27 hours electives. 121 credit hour totals

Competence through MATH 102 is required for this program.

### Program Learning Outcomes:

Upon completion of this program, students will be able to:

Create content appropriate for an appropriate media platforms

Analyze complex issues and topics related to information-gathering and content producing activities

Demonstrate the technical, managerial, and leadership skills necessary to collaboratively work with other industry professionals

Demonstrate through analytical and critical thinking strategies an understanding of law and ethics pertaining to various communication professions

## CURRICULUM REQUIREMENTS

Required Courses		Credits
JOUR 126	Broadcast Writing & Editing	3
JOUR 187	Production Lab in WCVM Media I	1
JOUR 188	Production Lab in WCVM Media II	1

JOUR 280	Broadcast Management, News and Production	3
JOUR 287	Production Lab in WCVM Media III	1
JOUR 288	Production Lab in WCVM Media IV	1
JOUR 313	Broadcast Scriptwriting	3
JOUR 326	Videojournalism I – Producing and Editing	3
JOUR 327	Videojournalism II – Content Producing	3
	Across Media Platforms	3
JOUR 328	Videojournalism III – Ethical/Legal Issues for Content Producing	3
	OR	
JOUR 401	Legal and Ethical Issues of Mass Communication	3
JOUR 387	Production Lab in WCVM Media V	2
JOUR 388	Production Lab in WCVM Media V & VI	2
JOUR 426	Videojournalism IV – Remote Broadcast Production	3
JOUR 427	Video Portfolio	3
JOUR 428	Internship	12
BSAD 108	Business Law	3
BSAD 116	Business and Organizational Management	3
BSAD 320	Entrepreneurship	3
CITA	As advised	2
COMM 111	Introduction to Speech	3
HUMN 210	The Film Experience	3
POLI 101	American National Government	3
ART 110	Intro to Visual Arts	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Foreign Language As Advised	3
GEOG 101	Intro to World Reg. Geog.	3
HIST	101, 102 or 103	3
	SUNY GER American History	3
HIST	161 or 162	3
	SUNY GER Western World Civilization	3
MATH 102	Intermediate Algebra with Trigonometry	3
PSYC 101	Psychology	3
	Science (as advised)	3
Additional General Elective Credits		27
(9 Credits must be 300-level or above)		
<b>Total Program Credits</b>		<b>121</b>

## Academic Minors

(open to baccalaureate degree students only)

### CRIMINAL JUSTICE MINOR – 15 credits

The criminal justice minor allows students to get an understanding of criminal justice in addition to other disciplines. The program outcomes of this minor include:

1. Explain due process and corresponding constitutional and legal rights.
2. Name the various police agencies, their specialties and jurisdictions.
3. Critique the varying goals and priorities of the many disciplines in the criminal justice system.
4. Identify and describe diversity and cultural influences in human behavior, particularly in stressful events.

#### Lower Division Courses

CJUS 101	Introduction to Criminal Justice	3
CJUS 202	Policing	3

#### Upper Division Courses

\*Student must complete nine 300 or 400 level criminal justice credits in addition to the two lower division required courses.

### CYBERSECURITY MINOR – 15 credits

Cyber security, also referred to as information technology security, focuses on protecting computers, networks, programs, and data from unintended or unauthorized access, change, or destruction. Government agencies, the military, corporations, financial institutions, hospitals, and other groups collect, process, and store a great deal of confidential information on computers and transmit that data across networks to other computers. With the growing volume and sophistication of cyber attacks, ongoing attention is required to protect sensitive business and personal information, as well as safeguard national security. Students wishing to specialize in cybersecurity may complete the Cybersecurity Minor by taking 15 credits (five CITA courses).

CITA 120	Computer Concepts and Operating Systems	3
CITA 200	Data Communications and Networking	3
CITA 270	Fundamentals of Network Security	3
CITA 325	Network Defense & Countermeasures	3
CITA 375	Internet & Intranet Firewalls	3

#### Learning Outcomes

Upon completion of the minor, students will be able to:

- Describe the functioning and features of the various computer system components as well as their advantages and disadvantages.
- Define and describe the principles of data integrity, security, and encryption.
- Examine the concept of privacy and its legal protections.
- Design, configure, and deploy defenses against key attacks using key attack tools.
- Define, describe, and implement firewall configuration strategies and solutions.

### GAME PROGRAMMING MINOR – 15 credits

The Game Programming minor is for students in a bachelor's degree program who want to develop the skills to create software for 2D, 3D and VR (Virtual Reality) video games. The minor provides students with courses that cover game design concepts, user interface design, and software development of video games. Students wishing to specialize in game programming may complete the Game Programming Minor by taking 15 credits (five CITA courses).

CITA 112	Introduction to Game Development	3
CITA 212	Fundamentals of Game Design	3
CITA 312	Intermediate Computer Game Design & Applications	3
CITA 385	User Interface Design	3
CITA 412	Advanced Game Design and Applications	3

#### Learning Outcomes

Upon completion of the minor, students will be able to:

- Apply the principles of game development, from concept to final product
- Apply concepts of Object-Oriented Programming (OOP) in a game design context
- Create the software for a multi-player 2D, 3D, or VR game suitable for distribution
- Demonstrate the ability to generate prototypes for game interfaces

## HISTORY MINOR – 15 credits

The history minor is for students in a bachelor's degree program who also want to gain a better understanding of human societies through the study of the discipline of history. The minor requires 15 credits (five HIST courses) with at least one HIST course from each of the three general education areas covered by the discipline: American History, Other World Civilization, and Western Civilization. At least two HIST courses must be at the 300-level or higher.

Courses regularly offered: (See the rest of the catalog for a complete list of HIST courses)

### American History

HIST 101	United States History to 1800	3
HIST 102	United States History from 1800 to 1900	3
HIST 103	United States History from 1900 to Present	3
HIST 225	Women in the United States	3
HIST 320	History of New York State	

### Western Civilization

HIST 161	European History to 1648	3
HIST 162	European History from 1500	3
HIST 182	History of Technology from 1750	3
HIST 371	The World Wars	3
HIST 372	The Cold War	3

### Other World Civilization

HIST 151	World History to 1600	3
HIST 152	World History from 1500	3
HIST 171	Environmental History	3
HIST 181	History of Technology to 1800	3
HIST 351	The World Since 1914	3

### Learning Outcomes

Upon completion of the minor, students will be able to:

- Demonstrate college-level research and writing skills
- Identify and explain the significance of key people, ideas, and events in the history of a period or region
- Explain the development of distinctive institutions of western civilization and the impact of the Western world on other world regions
- Explain key points in the history of a period of world history or non-Western/US region that demonstrates the nature change over time.
- Demonstrate a knowledge of the basic narrative of American history including key American institutions, the effect of these institutions on different groups, and the evolving relationship of the US with the world

## PSYCHOLOGY MINOR – 15 credits

The psychology minor is for students in a bachelor's degree program who also want to gain an understanding of the scientific study of human thought and behavior. The minor provides enough structure for students to learn about the breadth and depth of the field while also allowing students to select from a variety of courses to focus on specific areas of interest.

The minor consists of 15 credits (5 courses) and must include PSYC 101, PSYC 251, one additional lower-level course, and two upper-division 300-level courses from the following:

### Lower Division Courses

PSYC 221	Biological Psychology	3
PSYC 241	Child Development	3
PSYC 242	Adolescent Development	3
PSYC 243	Adult Development	3
PSYC 284	Psychology of Gender	3
PSYC 291	Human Diversity in the Social Context	3

MATH 123	Elementary Statistics	3
MATH 141	Statistics	3

### Upper Division Courses

PSYC 304	Industrial and Organizational Psychology	3
PSYC 325	Motivation	3
PSYC 381	Personality	3
PSYC 384	Group Behavior	4
PSYC 386	Social Psychology	4

### Student Learning Outcomes

- Explain how psychologists evaluate and use evidence to support theories.
- Identify current major theories and findings in various areas of psychology

## SCIENCE, TECHNOLOGY & SOCIETY MINOR – 15 credits

The Science, Technology and Society minor is designed to provide students with an understanding of how science and technology interact with the wider world – how the knowledge claims of science and the developments in technology both influence and reflect social conventions, historical trends and ethical values. STS offers an inter disciplinary approach to a complex world, and enables students to analyze and act in that world

To complete the minor, students must take a total of 15 credit hours, with at least 6 credit hours in the upper-division. Students will also need to take STS 101 and either HIST 181 or HIST 182.

### Upper Division Courses (at least 6 credit hours required)

STS 301	Humans v. Nature	3
STS 302	History of Science	3
STS 316	Investigating Cyberculture	3
STS 401	Advanced Topics in STS	3

### Lower Division Courses (6 credit hours required)

STS 101	The Values of Science and Society	3
HIST 181*	History of Technology to 1800	3
HIST 182*	History of Technology from 1800	3
SOCI 201	Social Problems	3

\*Either HIST 181 or HIST 182 is required, but not both

### Student Learning Outcomes

- A) Comprehension of the interdisciplinary nature of STS, as measured by ability to analyze specific problems, translate knowledge into new contexts (activism or policy contexts, for example), interpret facts, and predict consequences;
- B) Ability to synthesize scientific and technological ideas within cultural contexts, taking into mind specific social values and meanings (such as the role of expertise in policy making and the value of social movements in technological decision-making processes) of particular sciences and technologies;
- C) The enhancement of information literacy skills, defined as competency in seeking information that is available in any format, ability to critically evaluate information, and to effectively utilize the information that is found.

# Associate Degree Majors

## ACCOUNTING A.A.S. – CODE #0630

Accounting is a ThinkPad University curriculum using laptop computers integrated into courses. This program is also offered at the Norwich Campus.

**Program Description:** The accounting program design offers the interested student a sound basis for professional development with a minimum of sacrifice to educational mobility.

The curriculum contains requirements for a minimum of 15 semester hours in accounting and includes supporting courses in law, statistics, business organization, and computer information systems. Students contemplating transfer are advised to utilize free course electives in areas other than accounting and specialized subjects. Students planning to enter accounting or business immediately upon graduation are advised to take as many accounting courses as possible. Students who wish to diversify their accounting program may use free electives to build a supplemental field in computer information systems or management by selecting the courses indicated in the section titled Special Features. The successful completion of the programs will provide the educational requirements for employment as indicated in the career opportunities section of this catalog. This program is fully accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

**Career Opportunities:** Industry and banking, entry-level accounting positions, junior accountant, state government trainee, tax examiner, payroll auditor, cost analyst, budgeting control and credit analyst.

**Desired:** one additional unit of defined math.

**Graduation Requirement:** Minimum of 60 credit hours, 2.0 cumulative GPA, all required courses.

**Policy:** A minimum overall average of C or better is required in the 12 hours of required accounting courses plus:

One three-hour accounting elective

Demonstrated proficiency through MATH 102 Intermediate Algebra with Trigonometry II is required for this program

Accounting majors may not take an ACCT course on a P/NP basis

### Program Learning Outcomes:

Comprehend and apply accounting knowledge required of entry-level positions in management and industry

Utilize the accounting cycle both manually and electronically to record transactions, process information, and prepare financial statements for a business

Research, analyze and evaluate various types of business, events, industries & institutions

To communicate effectively through both oral and written means of communication

### CURRICULUM REQUIREMENTS

Required Courses		Credits
ACCT 101	Principles of Accounting I**	3
ACCT 102	Principles of Accounting II	3
ACCT 201	Intermediate Accounting	3
ACCT 205	Cost Accounting	3
ACCT	Accounting Elective	3
BSAD 100	Business in the 21st Century	3
BSAD 102	Business Mathematics	3
BSAD 116	Business Organization & Mgmt.	3
BSAD 108	Business Law	3
BSAD 140	Business Communications	3
BSAD 221	Business Statistics	3
BSAD 295	Business Management & Decision Making	3
CITA 101	Principles of Computer Applications	3
COMP 101	Composition and Research	3

COMP 102	Writing about Literature	3
Additional SUNY General Education Credits		12
Additional General Elective Credits		3
<b>Total Program Credits</b>		<b>60</b>

\*Accounting students entering Morrisville with a math placement of MATH 103 - College Algebra with Trigonometry or above will not take BSAD 102 and will speak with their advisor regarding a suitable substitute class.

\*\* The prerequisite for ACCT 101 is MAGN 101.

## ACCOUNTING A.S. – CODE #1129

Accounting is a ThinkPad University curriculum using laptop computers integrated into courses. This program is also offered at the Norwich Campus.

**Program Description:** The A.S. degree program in accounting is designed to prepare students for the accounting profession in the 21st century. This program prepares students to continue their education in bachelor degree programs and to take eventually the C.P.A. exam. Articulation agreements allow SUNY Morrisville graduates to transfer with junior status. Students have access to state-of-the-art software through a campus-wide computer network and laptop computers. This program is fully accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

**Career Opportunities:** Transfer to various four-year programs

**Graduation Requirement:** A minimum of 60 credit hours, 2.0 cumulative GPA, at least 30 credits and 7 of 10 SUNY General Education Categories. Accounting A.S. graduates must successfully complete MATH 147 - Selected Topics in Pre-calculus as a minimum math level.

Accounting majors may not take an ACCT course on a P/NP basis. A minimum overall average of C or better is required in the 12 hours of required accounting courses.

### Program Learning Outcomes:

Comprehend and apply accounting knowledge required of entry-level positions in management and industry

Utilize the accounting cycle both manually and electronically to record transactions, process information, and prepare financial statements for a business

Research, analyze and evaluate various types of business, events, industries & institutions

To communicate effectively through both oral and written means of communication

### CURRICULUM REQUIREMENTS

Required Courses		Credits
ACCT 101	Principles of Accounting I**	3
ACCT 102	Principles of Accounting II	3
ACCT 105	Managerial Accounting	3
ACCT	Accounting Elective	3
BSAD 100	Business in the 21st Century	3
BSAD 108	Business Law I	3
BSAD 116	Business Organization & Management	3
BSAD 221	Business Statistics	3
BSAD 295	Business Management & Decision Making	3
CITA 101	Principles of Computer Applications	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Natural Sciences	3-4
MATH 147	Selected Topics in Precalculus	3
ECON 100	Intro to Macroeconomics	3
ECON 140	Intro to Microeconomics	3
Additional SUNY General Education Credits		12
<b>Total Program Credits</b>		<b>60</b>



## AGRICULTURAL BUSINESS

### A.A.S. – CODE #0511

Agricultural Business is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

The curriculum is intended for anyone interested in obtaining an agriculturally oriented business education. The skills and knowledge obtained can be applied in numerous areas of the nation's largest industry, all the way from managing modern farm operations to retail sales of agricultural commodities.

The Agricultural Business major allows the student to tailor his or her curriculum beyond a basic core of required courses. The Marketing option consists of a strong core of agriculturally oriented and marketing courses. The Technology option provides a basic core of agribusiness courses as well as the opportunity for the student to choose a number of courses in an agricultural technical area. A strength of this option is that the student not only will acquire a degree of knowledge in a technical area, but will also acquire good business skills to manage technology. The Transfer option is intended for students that desire to transfer into a bachelor degree program at a later date. It provides for a more generalized curriculum.

**Career Opportunities:** Farm management, farm credit, farm services, banking, agricultural retail store management, farm insurance, agricultural sales, and marketing. One can also transfer into our bachelor degree program in Agricultural Business Development.

**Program Learning Outcomes:** Upon completion of the program, and according to the particular concentration of this major, a successful graduate will be able to:

Understand consumers' behavior (this is your behavior) and the determination of demand for agricultural commodities and food products;

Gain an understanding of the United States and the world food marketing system from the point of initial agricultural production until the finished product is in the hands of the consumer;

Utilize the tools of financial analysis, management, and planning to solve problems in agriculture and in their own personal lives. These tools include budgeting, present value analysis, financial feasibility analysis, financial statements, and methods of risk analysis and management.

**Graduation Requirement:** Students in the agriculture business must complete a minimum of 60 credit hours of course work and all the requirements listed below.

**Math Proficiency:** Demonstrated proficiency through MAGN 101 for the Marketing and Technology options. Demonstrated proficiency through MATH 102 - Intermediate Algebra with Trigonometry is required for completion of the Transfer option.

**English Proficiency:** Demonstrated proficiency through COMP 102 – Writing About Literature is required for completion of the Transfer option. Demonstrated proficiency through COMP 102 - Writing About Literature or COMP 111 Introduction to Speech is required for the Marketing and Technology options.

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
Curriculum Requirements for the Marketing Option		
AGBS 100	Agricultural Economics	3
	OR	
AGBS 225	Environmental Economics	3
AGBS 200	Marketing of Agricultural Products	3
AGBS 240	Farm Finance and Management	4
AGBS 230	Agriculture Business Management	2
AGBS 250	Decision Making for Ag. Managers	3
CITA	As Advised	3
	OR	
OFFT 110	Introduction to Spreadsheet Software	1
AND One of the following Three OFFT courses:		
OFFT 100	Introduction to Word Processing Software	1
	OR	
OFFT 106	Personal Computer Keyboarding	1
	OR	

OFFT 109	Introduction to Presentation Software	1
BSAD 209	Salesmanship	3
ACCT 100	Accounting Information and Mgt Decisions	3
	OR	
ACCT 101	Accounting	3
JOUR 272	Public Relation and Publicity Management	3
	OR	
BSAD 300	Management and Communications	3
COMP 101	Composition & Research	3
COMP 102	Writing about Literature	3
	OR	
COMM 111	Introduction to Speech	3
Additional SUNY General Education Credits		14
Additional General Elective Credits		13
<b>Total Program Credits</b>		<b>60</b>

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
Curriculum Requirements for the Technology Option		
AGBS 100	Agricultural Economics	3
	OR	
AGBS 225	Environmental Economics	
AGBS 200	Marketing of Agricultural Products	3
AGBS 240	Farm Management and Finance	4
AGBS 230	Agriculture business Management	2
AGBS 250	Decision Making for Ag. Managers	3
CITA	As Advised	3
	OR	
OFFT 110	Introduction to Spreadsheet Software	1

AND One of the following Three OFFT courses:

OFFT 100	Introduction to Word Processing Software	1
OFFT 106	Personal Computer Keyboarding	1
OFFT 109	Introduction to Presentation Software	1
ACCT 100	Accounting Information & Management Decisions	3
	OR	
ACCT 101	Accounting	3
COMP 101	Composition & Research	3
COMP 102	Writing about Literature	3
	OR	
COMM 111	Introduction to Speech	3

Additional SUNY General Education Credits		14
Additional General Elective Credits		11
<b>Total Program Credits</b>		<b>60</b>

#### TRANSFER OPTION

This option meets the needs of students interested in agricultural education, cooperative extension, Business, or general agriculture. Proper selection of elective courses allows this option to address a wide variety of student interest areas.

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
Curriculum Requirements for the Transfer Option		
AGBS 100	Agricultural Economics	3
AGBS 200	Marketing of Agricultural	3
AGBS 240	Farm Management and Finance	4
AGBS 250	Decision Making for Ag. Managers	3
CITA	As Advised	3
	OR	
OFFT 110	Introduction to Spreadsheet Software	1
AND One of the following Three OFFT courses:		
OFFT 100	Introduction to Word Processing Software	1



OFFT 106	Personal Computer Keyboarding	1
OFFT 109	Introduction to Presentation Software	1
ACCT 100	Accounting Information and Management Decisions	3
	OR	
ACCT 101	Accounting	3
COMP 101	Composition & Research	3
COMP 102	Writing about Literature	3
MATH 102	Intermediate Algebra with Trig	3
CHEM 121	General College Chemistry & Lab	4
Additional SUNY General Education Credits		7
Additional General Elective Credits		22
<b>Total Program Credits</b>		<b>61</b>

See suggested electives - Technical electives may be from any technical agricultural program area such as Animal Science, Equine Studies, Agricultural Science, Agricultural Engineering, Horticulture, or any other technical agricultural program. A minimum of 15 credit hours must be taken in one technical area. These technical electives are listed in this catalog under the specific technical major.

\*\*\*AGBS/AGEN/AGRO/AGSC/AGNR/ANSC/BIOL/BREW/BSAD/CHEM/DANS/DTEC/ECON/ENSC/ENVT/ERID/ESCI/ESTB/HORT/NATR/RENG/SPPR/NURS/NUTR/RREN/FSAD/EDU/CITA

## AGRICULTURAL ENGINEERING TECHNOLOGY A.A.S. – CODE #0512

Agricultural Engineering is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

Mechanization and automation in agriculture have created demand for technicians in agricultural engineering and mechanics by the farm equipment industry and by operators of large commercial farms.

If a student is interested in mechanical applications and in agriculture, this curriculum can provide many challenging opportunities.

The farm equipment industry today serves not only the commercial farmer but also is one of the major suppliers of such equipment as lawn, garden, and small recreational equipment, as well as construction equipment such as backhoes and small bulldozers for industrial uses.

**Accreditation:** The program is accredited by the Equipment and Engine Training Council.

**Career Opportunities:** Sales, service and distribution of farm equipment and supplies, petroleum products, small power equipment. Farm service representative, industrial plant maintenance.

**Transfer Opportunities:** Students who wish to prepare for transfer to a bachelor degree program can do so by taking six credit hours of biology and/or botany as well as eight credits of chemistry and six credits of mathematics in consultation with the student's advisor. If a student intends to transfer to another SUNY institution, he/she must choose electives carefully taking courses covering seven of the 10 general education categories. See your advisor and select your courses carefully.

**Math Proficiency:** Demonstrated proficiency through MATH 102 - Intermediate Algebra with Trigonometry is required for graduation from this program.

### Program Learning Outcomes:

Develop a comprehensive understanding of the mechanical function of the compression-ignition engines and modern agricultural equipment

Develop a comprehensive understanding of electrical systems and electronic controls used for diesel-powered equipment and modern agricultural equipment

Develop a comprehensive understanding of hydraulic systems, components and control systems used for transmitting hydraulic power in diesel-powered equipment and modern agricultural equipment

Develop the ability to accurately and efficiently diagnose and repair failures in mechanical, electrical and hydraulic systems in diesel-powered equipment and modern agriculture equipment.

### Degree Requirements:

Minimum 64 credit hours with a 2.0 minimum GPA and all required courses.

20 semester hours of liberal arts & sciences.

Demonstrates proficiency through MATH 102 - Intermediate Algebra with Trigonometry is required for graduation from this program.

## CURRICULUM REQUIREMENTS

Required Courses		Credits
OFFT 110	Introduction to Spreadsheet Software	1
AGEN 100	Tractor Care and Maintenance	3
AGEN 105	Principles of Farm Machinery	2
DTEC 125	Diesel Electrical Systems	4
DTEC 225	Diesel Electronics	4
AGEN 161	Basic Hydraulics	3
AUTO 102	Metals	3
AGSC 132	Intro to Computer Applications in Precision Farming	2
AGEN 115	Agricultural Engineering Industry Overview	1
AGEN 210	Small Power Equipment II	3
AGEN 220	Maintenance, Repair, and Performance Tuning of Arctic Cat equipment	4
AGEN 261	Advanced Hydraulics	4
AGEN 131	Fundamentals of Hydraulics	3
AGEN 270	Tractor Overhaul and Repair	5
	OR	
AGEN 300	Internship in Agricultural Engineering	4
AGBS 100	Agricultural Economics	3
	OR	
ACCT 100	Accounting Information and Management Decisions	
	OR	
AGBS	Agricultural Business as Advised	3
DTEC 150	Diesel Systems	3
COMP 101	Composition and Research	3
COMP 110	Technical Communications	3
	Natural Science as Advised with Lab	4
Additional General Elective Credits		3-6
Total Program Credits		64

## AGRICULTURAL MECHANICS A.O.S. – CODE #0527

Agricultural Mechanics is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

The A.O.S. program is a two-year program consisting almost entirely of courses in mechanics and agriculture. There is no requirement for courses in liberal arts and general studies. The curriculum is best suited to students who intend to find immediate employment in their field or return to the home farm. The student may choose options (15 credits) in agricultural business, dairy equipment technology, small power equipment, auto mechanics, animal science, agronomy, or horticulture. Students who intend to continue their education would be better prepared by following the A.A.S. degree program in agricultural engineering, which includes the liberal arts and sciences required to transfer to a bachelor degree program.

**Career Opportunities:** Mechanics in farm machinery dealerships, sales and service of farm equipment, self-employment in farm machinery business, facilities maintenance in agricultural operations.

### Program Learning Outcomes

Develop a comprehensive understanding of the mechanical function of the compression-ignition engines and modern agricultural equipment

Develop a comprehensive understanding of electrical systems and electronic controls used for diesel-powered equipment and modern agricultural equipment

Develop a comprehensive understanding of hydraulic systems, components and control systems used for transmitting hydraulic power in diesel-powered equipment and modern agricultural equipment

Develop the ability to accurately and efficiently diagnose and repair failures in mechanical, electrical and hydraulic systems in diesel-powered equipment and modern agriculture equipment.

#### Degree Requirements:

Minimum 62 credit hours with a 2.0 minimum GPA and all required courses.

Demonstrates proficiency through MAGN 101.

English proficiency through SKLS 088.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
AGEN 100	Tractor Care and Maintenance	3
AGEN 105	Principles of Farm Machinery	2
DTEC 125	Diesel Electrical Systems	4
DTEC 225	Diesel Electronics	4
AUTO 102	Metals	3
AGEN 115	Agricultural Engineering Industry Overview	1
AGEN 210	Small Power Equipment II	3
AGEN 220	Maintenance, Repair, and Performance Tuning of Arctic Cat Equipment	4
AGEN 161	Basic Hydraulics	3
AGEN 261	Advanced Hydraulics	4
AGEN 270	Tractor Overhaul and Repair	5
	OR	
AGEN 300	Internship in Agricultural Engineering	4
AUOS 260	Automotive Air Conditioning and Heating	3
	OR	
AUTO 260	Automotive Air Conditioning	1
AGSC 132	Intro to Computer Applications in Precision Farming	2
OFFT 110	Introduction to Spreadsheet Software	1
RENG 102	Renewable Energy Resources	3
AGEN 131	Fundamentals of Hydraulics	3
DTEC 150	Diesel Systems	3
	OR	
AUTO 103	Internal Combustion Engines I - Theory	3
Additional General Elective Credits Required		13
<b>Total Program Credits</b>		<b>62</b>
Option for General Elective Credits (3 credits required)		
AGEN 135	Construction Surveying	3
	OR	
NATR 142	Plane Surveying	3
RESC 130	Light Framing	3
AGEN 120	Water Supply and Sanitation	2
DTEC 350	Advanced Diesel Fuel Systems	3
ACCT 100	Accounting Info. Management and Decisions	3
AUTO 109	Chassis Analysis I	4
DTEC 105	Diesel PowerTrains I	4
DTEC 325	Electrical Power Generation	3
DTEC 290	Diesel Equipment Technology Internship	1
DTEC 295	Diesel Equipment Technology Internship 3	1

Option Field of Study Electives (10 Credits Required)

Students must choose a minimum of 10 credits within one of the following option categories, if pursuing an option. 10 credits from the classes listed below must be taken if student is not pursuing an option.

#### Agricultural Business

ACCT 100	Accounting Info. and Management Decisions	3
AGBS 100	Agricultural Economics	3
AGBS 210	Farm Management	3
AGBS 200	Marketing Agricultural Products	3
AGBS 220	Agricultural Finance	3
AGBS 230	Agricultural Business Management	2

#### Agricultural Science (Agronomy)

AGRO 110	Soil Science	3
AGRO 210	Field Crops	3
AGRO 215	Soil Fertility and Fertilizers	3
AGRO 110	Soil Science	3
AGRO 310	Pasture Management and Forages Production	3
AGRO 105	Soil and Water Conservation	2

#### Animal Science

ANSC 100	Animal Science and Industry	3
DANS 100	Dairy Nutrition	3
DANS 160	Introduction to Dairy Science	3
DANS 210	Dairy Health	3
DANS 220	Dairy Herd Management	3
DANS 110	Dairy Breeding	3
DANS 225	Dairy Production and Management	3

#### Automotive Mechanics

AUTO 104	Automotive Electronics I	3
AUTO 109	Chassis Analysis I	4
AUTO 177	Business and Personnel Management	3
AUTO 202	Automotive Body Fundamentals	3
AUOS 127	Internal Combustion Engines	5
	-or-	
AUTO 103	Internal Combustion Engines I - Theory	3
AUTO 171	Automotive Drivetrains	3

#### Dairy Equipment Technology

AGBS 230	Agricultural Business Management	2
DANS 160	Introduction to Dairy Science	3
ELEC 235	Computer Machine Control	1
ELEC 236	Industrial Instrumentation	1
BSAD 209	Salesmanship	3
DANS 225	Dairy Production and Management	3
ELEC 290	Digital Circuits and Microprocessors	3

#### Horticulture

HORT 101	Plant Materials	3
HORT 103	Landscape Planning & Design I	3
HORT 105	Landscape Planning & Design II	3
HORT 109	Landscape and Turf Management	3
HORT 206	Sustainable Landscapes	3
HORT 210	Horticulture Practices II	1

#### Small Power Equipment

AUTO 104	Automotive Electronics I	3
AUTO 260	Automotive Air Conditioning	1
AGEN 110	Small Power Equipment	2
AUTO 177	Business and Personnel Management	3
ACCT 100	Accounting Info and Management Decisions	3

## AGRICULTURAL SCIENCE

### A.A.S. – CODE #0514

Agricultural Science is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

Agricultural Science is a program which provides fundamental training in the basic sciences as applied to agriculture. Four options are available. Three transfer options emphasize preparation in basic sciences and the humanities, which approximates

the first two years of work in a bachelor degree program. The fourth option in Agricultural Technology provides students with the flexibility to develop an individualized course of study in Agriculture and Natural Resources. All graduates earn the associate in applied science degree.

**Career Opportunities:** This program offers broad-based training in agriculture preparing students for employment in the agricultural service sector and for technical on-farm work.

**Transfer Opportunities:** Transfer to a bachelor degree program depends largely upon the student's academic record. Most colleges expect above-average performance. Above-average performance is usually defined as a 3.0 cumulative average ("B" average) or better. General education requirements mandated by the State University of New York Board of Trustees may be applied to certain transfer students.

**Program Learning Outcomes:** Upon completion of this program, and according to the particular concentration, a successful graduate will be able to:

Have adequate biology, chemistry, math and agriculture background to transfer to a 4 year college such as Cornell University.

Have adequate skills to work in an agriculture area chosen by the student.

#### Graduation Requirements:

A minimum of 60 credit hours (depending on concentration) and all of the other requirements listed below must be met. A minimum GPA of 2.0 is required for graduation. Demonstrated proficiency through MAGN 101 for technology option and Agronomy option. Demonstrated proficiency through MATH 103 for General transfer and Animal Science option must be met. Demonstrated proficiency through COMP 102 or COMP 111 is required for all options except general transfer where the demonstrated proficiency must be met through COMP 111.

Minimum 20 credit hours of SUNY General Education Courses (see list in this catalog) across recommend 7 of 10 SUNY General Education categories.

#### GENERAL TRANSFER OPTION

This option meets the needs of students interested in agricultural education, cooperative extension, plant sciences, pre-vet, or general agriculture. Proper selection of elective courses allows this option to address a wide variety of student interest areas. Pre-vet students who would like to complete their course requirements in two years for entry into College of Vet Medicine at Cornell will be able to take their chemistry and biology courses instead of AGSC, ENSC, AGRO, or electives. They will also be required to take CHEM 121 during their first semester. For detailed scheduling, please contact your advisor.

#### CURRICULUM REQUIREMENTS

Required Courses	Credits
AGSC 135	Computer Applications in Agricultural Research I
BIOL	Biology (as advised)
AGSC 132	Introduction to Computer Applications in Precision Farming
ENSC 102	Botany: Form and Function of Seed Plants
AGRO	Agronomy (as advised)
AGSC 137	Analysis and Interpretation of Agricultural Data
CHEM 121	General Chemistry I
	OR
PHYS 127	General Physics I
CHEM 122	General Chemistry II
	OR
PHYS 128	General Physics II
COMP 101	Composition and Research
COMP 102	Writing About Literature
Additional SUNY General Education Credits	10
Additional General Elective Credits Required	21
<b>Total Program Credits</b>	<b>60</b>

#### ANIMAL SCIENCE OPTION

The animal science emphasis is specifically designed for transfer students interested in the fields of dairy or equine science. The program also provides basic preparation for students considering transfer to pre-veterinary programs at Cornell or other four-year programs. A wide selection of elective courses in the basic sciences, animal science, agronomy, and agricultural business allows students to tailor programs to meet occupational objectives.

#### CURRICULUM REQUIREMENTS

Required Courses	Credits
BIOL	Biology (as advised)
AGSC 135	Computer Applications in Agricultural Research I
DANS 100	Dairy Nutrition
	OR
ESCI 210	Equine Nutrition
AGSC 132	Introduction to Computer Applications in Precision Farming
DANS 110	Dairy Breeding
	OR
	Elective
AGRO	Agronomy (as advised)
AGSC 137	Analysis and Interpretation of Agricultural Data
CHEM 121	General Chemistry I
CHEM 121L	Lab for CHEM 121
BIOL 285	Microbiology
CHEM 122	General Chemistry II
CHEM 122L	Lab for CHEM 122
COMP 101	Composition and Research
COMP 102	Writing About Literature
	OR
COMM 111	Introduction to Speech
Additional SUNY General Education Credits Required	6
Additional General Elective Credits Required	14
<b>Total Program Credits</b>	<b>60</b>

General Elective credits can be taken from the following subjects.

\*=AGBS, AGEN, AGNR, AGRO, AGSC, AUTO, DANS, DTEC, HORT, NATR, RENG, RREN, SPPR

#### AGRONOMY (CROPS AND SOILS) OPTION

This curriculum deals with the production of food crops for both human consumption and livestock production, as well as the scientific study of the soil. Students who select this major are usually interested in working in the agricultural services industry, or crop production. The curriculum provides the training necessary to become a technician with the Soil Conservation Service as well as various agencies and companies serving the farmers' needs for fertilizers, seed, and farm chemicals.

#### CURRICULUM REQUIREMENTS

Required Courses	Credits
AGBS 100	Agricultural Economics
AGEN 105	Principles of Farm Machinery
AGRO 110	Soil Science
AGSC 132	Introduction to Computer Applications in Precision Farming
ENSC 107	Integrated Pest Management
	Elective
	OR
CHEM	Chemistry (as advised)
ENSC 102	Botany: Form and Function of Seed Plants
ENSC 106	Pesticide Use and Handling
AGRO 215	Soil Fertility and Fertilizer
AGSC 137	Analysis and Interpretation of Agricultural Data

AGSC 135	Computer Applications in Agricultural Research I	1
AGBS 240	Farm Management and Finance	4
AGRO 210	Field Crops	3
AGBS 200	Marketing Agricultural Products	3
	Electives (as advised)*	14
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	-or-	
COMP 111	Introduction to Speech	3
Additional SUNY General Education Credits Required		4
Additional General Elective Credits Required		14
<b>Total Program Credits</b>		<b>60</b>

General Elective credits can be taken from the following subjects.

\*=AGBS, AGEN, AGNR, AGRO, AGSC, AUTO, DANS, DTEC, HORT, NATR, RENG, RREN, SPPR

### AGRICULTURE TECHNOLOGY OPTION

This option allows the student considerable flexibility in tailoring a science oriented program. It is intended for those students who may wish to enter the work force after graduation. Students in this option work closely with an advisor to select courses to develop or meet career goals. Those interested in Agricultural Information Technology may choose 16 credit hours of English and Information Technology courses (instead of 16 hours of electives). Students receive a broad based education by exploring a variety of subject areas in agriculture and natural resources.

### CURRICULUM REQUIREMENTS

Required Courses	Credits
AGSC 132	Introduction to Computer Applications in Precision Farming
AGSC 135	Computer Applications in Agricultural Research I
AGRO 110	Soil Science
AGSC 137	Analysis and Interpretation of Agricultural Data
COMP 101	Composition and Research
COMP 102	Writing About Literature
	OR
COMM 111	Introduction to Speech
Additional SUNY General Education Credits Required	
Additional General Credits Required	
(*=25 credits of Agricultural & Natural Resources courses are required)	
<b>Total Program Credits</b>	

General Elective credits can be taken from the following subjects.

\*=AGBS, AGEN, AGNR, AGRO, AGSC, AUTO, DANS, DTEC, HORT, NATR, RENG, RREN, SPPR

## ANIMAL SCIENCE - DAIRY

### A.A.S. – CODE #0562

Animal Science - Dairy is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

The dairy industry is the largest of all agricultural enterprises in New York, and ranks third in the nation in the production of milk. Today's New York dairy industry is exciting and challenging. The industry needs qualified young people trained in the management of modern dairy farms, as well as the areas of nutrition, reproduction, herd health and farm supplies, to mention a few.

The Animal Science - Dairy curriculum is a progressive practical program concentrating on dairy cattle management, emphasizing both managerial and hands-on experiences. This curriculum is based on dairy courses that provide a

science and business background. A strong emphasis is placed on application of these principles with our 250-cow free-stall dairy herd of registered Holsteins. Student-management programs are enhanced with a dairy complex which features a milking parlor and classrooms hooked up to dairy cattle management software. A methane digester provides a large portion of electricity back to the dairy.

Students may prepare for transfer to a bachelor degree program. They can also enter the bachelor of technology program in Dairy Management. In addition to the academic program, students have the opportunity to participate in related activities such as Dairy Club, FFA, Dairy Judging Team, Autumn Review Sale, National Agriculture Day, Showmanship Contest, and The Northeast Dairy Challenge.

**Career Opportunities:** Dairy production management, dairy nutrition, artificial insemination, reproductive management, agri-business employment and many others

**Transfer Opportunities:** Students who plan to transfer to a four-year program should elect appropriate science courses such as biology and/or chemistry, and mathematics.

**Graduation Requirements:** Minimum 60 credit hours, minimum 2.0 cumulative GPA, minimum 20 credit hours SUNY General Education Requirements (see list in this catalog). Demonstrated proficiency through MAGN 101

### Program objectives:

Employ sound judgment, problem-solving and critical thinking skills when working with dairy cattle.

Conduct the necessary research, analysis, evaluation, and critical thinking skills required of dairy management.

Provide training and practical hands on skills for a career in dairy management.

### CURRICULUM REQUIREMENTS

Required Courses	Credits
DANS 100	Dairy Nutrition
DANS 110	Dairy Breeding
DANS 115	Dairy Artificial Insemination
DANS 120	Anatomy and Physiology of the Dairy Cow
DANS 140	Dairy Cattle Judging
DANS 150	Dairy Farm Practicum (Barn Duty)
DANS 151	Dairy Techniques (SHARRPS)
DANS 160	Introduction to Dairy Science
DANS 210	Dairy Health
DANS 220	Dairy Herd Management
DANS 225	Dairy Production and Management
DANS 250	Dairy Perspectives
AGBS 100	Agricultural Economics
	OR
AGBS 225	Environmental Economics
AGBS 200	Marketing of Agricultural Products
AGBS 240	Farm Management and Finance
AGRO 110	Soil Science
AGRO 210	Field Crops
AGSC 132	Introduction to Computer Applications in Precision Farming I
	OR
OFFT 110	Introduction to Spreadsheet Software

AND 1 of the following 3 OFFT courses:

OFFT 100	Introduction to Word Processing Software	1
OFFT 106	Personal Computer Keyboarding	1
OFFT 109	Introduction to Presentation Software	1
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	OR	
COMM 111	Introduction to Speech	3
ACCT 100/101	ACCT as advised	3
MATH	Math as advised to meet SUNY GenEd	3



Additional SUNY General Education Credits Required	3
Additional General Elective Credits	1
<b>Total Program Credits</b>	<b>60</b>

## AQUACULTURE & AQUATIC SCIENCE A.A.S. – CODE #1020

Aquaculture and Aquatic Science is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

This major provides fundamental training in aquaculture, fisheries biology, limnology and aquatic biology. Students receive a broad-based education by exploring diverse subject matter in aquaculture and aquatic sciences. Practical, hands-on experience is emphasized, using an operational aquaculture complex and a wide assortment of laboratory and field equipment.

**Career Opportunities:** The Aquaculture and aquatic science curriculum prepares students for fish culture and management technology, aquatic ecology, limnology, and marine biology, working as federal, state and private hatchery technicians, aquatic biologists, fisheries technicians, environmental science technicians.

**Graduation Credit Requirements:** Students in the aquaculture and aquatic science major must complete a minimum of 60 credit hours of course work and all of the requirements listed below (with no less than 20 hours of Liberal Arts and Sciences courses) with a minimum 2.0 cumulative GPA..

**Math Proficiency:** Demonstrated proficiency through MATH 102, Intermediate Algebra with Trigonometry

**Program Learning Outcomes:** Upon completion of the program, a successful graduate will be able to:

- Describe the state of the aquaculture and aquatic science profession and potential career opportunities.
- Utilize the developed expertise in concepts, theories, and emerging methodologies to succeed in tackling real-world issues in aquaculture and aquatic science.
- Conduct himself/herself in a manner consistent with an embodied sense of environmental stewardship.
- Assess, analyze, synthesize, and evaluate information objectively and deal professionally and ethically with clients, the public, and agency personnel.
- Utilize oral and computer communication skills necessary to interact in the profession.
- Demonstrate advanced knowledge and competency in taxonomy and natural history of aquatic flora and fauna of the northeast.
- Demonstrate hands-on experience in aquatic sampling inventory and measurement techniques.
- Become an independent, self-motivated professional with the ability to recognize problems in their field of aquaculture and aquatic science and apply critical thinking and problem-solving skills.
- Utilize existing technology, products, and services to maximize work efficiency and success.
- Practice a collaborative spirit in team-efforts and project coordination.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
NATR 101	General Ecology	3
NATR 144	Seminar in Environmental Resources	1
NATR 150	Aquaculture	3
NATR 152	Fish Reproduction	2
NATR 158	Fish Nutrition	2
NATR 250	Aquatic Ecology	3
NATR 252	Fish Ecology and Management	3
NATR 254	Fish Health Management	3
NATR 156	Aquaculture Practicum I	1

NATR 256	Aquaculture Practicum II	1
NATR 257	Aquaculture Practicum III	1
NATR 258	Aquaculture Practicum IV	1
	Technical Elective (as advised)	8
AGEN 110	Small Power Equipment	2
	OR	
NATR 103	Natural Resource Equipment Operation	2
AGEN 120	Water Supply & Sanitation	3
	OR	
ENVT 345	Surface and Groundwater Management	3
OFFT 110	Introduction to Spreadsheet Software	1
BSAD	Business Elective (as advised)	3
BIOL 285	General Microbiology	4
CHEM/BIO/	Chemistry with lab as advised NATR 110 or	3/4
NATR Elective	CHEM 101 or CHEM 121 or BIO 120	
COMP/COMM	Basic Communications (as advised)	6
MATH 102	Intermediate Algebra with Trigonometry	3
ECON 100	Introduction to Macroeconomics	3
	OR	
ECON 140	Introduction to Microeconomics	3
	Additional Technical Electives‡	8
	<b>Total Program Credits</b>	<b>60</b>

‡ Technical Elective must be selected from subject areas: AGBS, AGEN, AGSC, BIOL, BSAD, CHEM, CJUS, ENSC, ENVT, HORT, NATR, RENG, RREN

## ARCHITECTURAL STUDIES & DESIGN A.S. – CODE #1755

Architectural Studies and Design is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** It is the mission of this program to educate a diverse student population about the field of architecture in an environment where faculty supports and nurtures each student. The objective of the program is to adequately prepare students to transfer and succeed in a professional or pre-professional baccalaureate program in architecture or related field, or prove useful in the field of architecture or a related profession or industry.

This hands-on, design-based program supports learning and community through a studio centric experience, the use of applied technology, and a strong liberal arts and humanities component. The curriculum is designed to engage students in topics, ranging from fundamental to sophisticated, with the intention of developing an aptitude for creative, functional, and programmatic problem solving abilities. Throughout this experience, students are challenged to learn to make decisions in a culturally and environmentally responsive fashion. They develop the creative thinking and communication skills needed to explore and research the diverse problems that influence architectural discourse. This includes social and historic influences to potential sustainable futures. This is accomplished throughout the curriculum as a means for creating presentation material, for expressing opinions, and for providing technical documentation. The Architectural Studies and Design program is an integrative program concerned with designing, creating, improving and shaping the built environment, and ultimately, celebrating the human condition.

**Career Opportunities:** In addition to excellent transfer options for graduates with the associate in science degree in Architectural Studies and Design, there are employment opportunities in architecture firms and architecture related profession and industries.

**Transfer Options:** This rigorous program has resulted in successful transfer opportunities for graduates. Morrisville graduates have excellent reputations at other academic institutions.

### Program Learning Outcomes

Upon successful completion of the program, students will be able to:

- Translate abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against



relevant criteria and standards.

Employ at a theoretical level, elements, forms, spatial relationships, examples, organization, circulation, sequence, proportion, scale and ordering principles to make clear three dimensional architectural ideas and concepts.

Apply an architectural design logic that accounts for composition, order, analysis, precedent, experimentation, presentation, competition, independence and teamwork.

Generate an analytical approach to the design process, and concept development, while considering implications for possible responses, problems and architectural outcomes.

Employ the basic principles utilized in architecture, construction and building technologies, in the use of construction material products, components, and assemblies, based on their traditional and innovative characteristics and performance, including their environmental impact and reuse.

Synthesize the principles of conceptualization, process, history, exploration, analysis, precedence, place, integration, sustainability, materials, construction compliance, creativity and imagination in response to architecture and architectural design in the natural and built environments.

Use appropriate representational media such as traditional architectural graphic, modeling and digital technology skills and techniques to delineate, express and convey architectural ideas and concepts.

Create technically clear architectural drawings and renderings that demonstrate knowledge of the conventional principles of architectural drafting and drawing to illustrate and identify the assembly of materials, systems and components.

#### Graduation Requirements:

All AS programs require a minimum of 60 credit hours including 30 credit hours from SUNY general education courses, with courses in seven of the ten SUNY general education categories. To fulfill these requirements along with the required courses for this program, 61 credits are required for this program. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher.

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
ARCH 101*	Architectural Graphic Communications	2
ARCH 102	Introduction to Architecture	2
ARCH 141*	Architectural Design I	4
ARCH 142*	Architectural Design II	4
ARCH 151	Architecture: Prehistory to 1800	3
ARCH 243*	Architectural Design III	4
ARCH 244*	Architectural Design IV	4
ARCH 252	Architecture: 1800 to the Present	3
ARCH 271	Architectural Technology I	3
ARCH 272	Architectural Technology II	3
CAD 181	Introduction to CAD	1
CAD 183	Arch Computer-Aided Drafting & Design	2
PHYS 107*	Introductory Physics I	4
MECH 211*	Analytical Mechanics (Statics)	3
MECH 213*	Strength of Materials	4
COMP 101*	Composition and Research	3
COMP 102*	Writing about Literature	3
MATH 151*	General Calculus A	3
Additional SUNY General Education Credits Required		5
Additional General Elective Credits Required		5
<b>TOTAL PROGRAM CREDITS</b>		<b>61</b>

\*Courses on the SUNY General Education list

1 Arts, Basic Communication, Humanities, Mathematics, Natural Science, categories are fulfilled in these required courses. Two additional SUNY General Education courses are needed to fulfill the 7 categories requirement

## AUTO BODY TECHNOLOGY

### A.A.S. – CODE #2054

**Program Description:** The A.A.S. in Auto Body Technology will prepare graduates for entry into the field of automotive collision repair as specialized technicians in areas such as: tear-down and reassembly, structural realignment, metalwork, and refinishing. The series of courses required for the degree will cover topics necessary to pass the ASE/I-CAR examinations in the areas of collision repair and refinishing. The Associate Degree program will include a ten week summer work experience in collision repair.

A new, state-of-the-art, Auto Body Technology building houses a lab and classroom dedicated to auto body repair, refinishing, and estimating. Morrisville's original 50,000 square foot automotive facility provides an excellent opportunity for students to develop additional skills in other areas of automotive service and repair. In addition to the core collision repair courses, students receive practical laboratory experience in diagnosis and repair of electrical/electronics, air conditioning, brakes, steering, suspension, alignment, welding, and engines/power train.

BOCES/Technical Secondary Education will be evaluated and credit may be awarded upon successful completion of first year with a minimum of 2.0 in an automotive curriculum.

**Accreditation:** I-CAR non-structural and refinish platinum certifications are available to AAS Auto Body Technology graduates who pass the certification exam.

**Career Opportunities:** Entry level positions in dealer/independent collision repair facilities as technicians, retail/wholesale auto body shops, and in the equipment, paint supply and insurance appraisal industry.

**Transfer Options:** Continuation into Morrisville's Bachelor of Technology Degree: Students transferring from the A.A.S. degree program in Auto Body Technology must have a minimum 2.0 GPA and must successfully complete AUTO 103, AUTO 171, AUTO 204 and AUTO 205 (this may require additional semesters).

**Program Requirement:** Students are required to have a tool set and roll around tool box.

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

- Demonstrate proper metal joining and straightening methods
- Inspect, remove, install, align panels, doors and trim to meet shop standards
- Apply safety and environmental guideline standards
- Explain written procedures as outlined in estimates
- Apply a refinish to an acceptable color match

**Graduation Requirements:** All AAS programs require a minimum of 60 credit hours including 20 credit hours from Liberal Arts and Science courses. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
AUTO 102	Metals	3
AUTO 104	Basic Automotive Electrical Systems	3
AUTO 109	Chassis Analysis I	4
AUTO 110	Summer Work Experience	3
AUTO 155	Intermediate Automotive Electricity and Electronics	3
AUTO 202	Auto Body Fundamentals	3
AUTO 209	Chassis Analysis II	4
AUTO 259	Auto Body Non-structural Repair and Refinishing	5
AUTO 260	Auto AC and Refrigeration Recovery	1
AUTO 269	Advanced Auto Body Refinishing and Structural Measurement	5
AUTO 279	Auto Body Structural Repair	6

COMP 101^	Composition and Research	3
PSYC 101^	Introduction to Psychology	3
MATH	(As Advised) to meet SUNY General Education	3
	As Advised to Meet SUNY Natural Science	3

Additional SUNY Gen Ed Credits	8
<b>TOTAL PROGRAM CREDITS</b>	<b>60</b>

^Courses on the Liberal Arts and Science list

Eight additional LAS credits are needed to fulfill the 20 credit Liberal Arts and Science requirement

## AUTOMOTIVE TECHNOLOGY

### A.A.S – CODE #0525

**Program Description:** The Automotive Technology curriculum is designed to prepare graduates for the entry into the automotive/transportation service and repair industry.

The 50,000 square-foot and 12,000 square-foot automotive facilities provide an excellent opportunity for students to develop their skills in all automotive repair and service areas. Students receive practical laboratory experience in brakes/steering/suspension, drive-trains, electrical, engine mechanical, engine performance, air conditioning, and basic auto body collision repair in addition to liberal arts courses.

**Career Opportunities:** The Automotive Technology Program prepares students for an entry level position in the Automotive/Transportation field and provide the opportunity to complete ASE certifications.

**Transfer Options:** The Automotive Technology Program prepares students to continue their education in a 4-year degree program Students must complete the A.A.S. degree with a minimum 2.0 grade point average to transfer into the Automotive B. Tech. program as a junior.

**Program Requirement:** Students are required to have a tool set and roll around tool box.

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

- Demonstrate professionalism appropriate for the auto service industry
- Perform diagnosis, service and repair of automotive internal combustion engines
- Perform diagnosis, service, and repair of automotive electrical/electronic systems
- Perform diagnosis, service, and repair of automotive heating and air conditioning systems
- Describe and follow safety and environmental guideline standards for the auto service industry
- Perform diagnosis, service, and repair of automotive steering and suspension

### CURRICULUM REQUIREMENTS

Required Courses		Credits
AUTO 102	Metals	3
AUTO 103	Internal Combustions Engines I	3
AUTO 104	Basic Automotive Electrical Systems	3
AUTO 109	Chassis Analysis I	4
AUTO 110	Summer Work Experience	3
AUTO 138	Career Awareness	1
AUTO 155	Intermediate Automotive Electricity and Electronics	3
AUTO 171	Automotive Drivetrains	3
AUTO 202	Auto Body Fundamentals	3
AUTO 204	Automotive Electronic Systems	3
AUTO 205	Electronic Fuel Systems	3
AUTO 209	Chassis Analysis II	4

AUTO 255	Drivability & Performance Problems	5
	-or-	
AUTO 259	Auto Body Non-structural Repair and Refinishing	5
AUTO 261	Automotive AC and Heating	3
COMP 101^	Composition and Research	3
PSYC 101^	Introduction to Psychology	3
	As Advised to Meet SUNY Natural Science	3
MATH	(As Advised) to meet SUNY General Education	3

Additional SUNY Gen Ed Credits	8
<b>TOTAL PROGRAM CREDITS</b>	<b>64</b>

^Courses on the Liberal Arts and Science list

Eight additional SUNY Gen Ed credits are needed to fulfill the 20 credit Liberal Arts and Science requirement

## AUTOMOTIVE TECHNOLOGY FORD

### ASSET OPTION A.A.S. – CODE #0525

**Program Description:** The Ford ASSET (Automotive Student Service Educational Training) program is a cooperative education partnership among SUNY Morrisville, Ford and Lincoln Dealers, and Ford Motor Company. The ASSET program allows technical and vocational students to gain on-the-job training at a sponsoring Ford or Lincoln dealership while earning an associate degree in Automotive Technology. Ford ASSET utilizes module based teaching methods at an accelerated pace.

All vehicles, components, special tools, and service information are provided by Ford Motor Company. Instruction is delivered by Ford certified technical trainers in NATEF certified labs and classrooms.

The 50,000 square-foot and 12,000 square-foot automotive facilities provide an excellent opportunity for students to develop their skills in all automotive repair and service areas. Students receive practical laboratory experience in brakes/steering/suspension, drive-trains, electrical, engine mechanical, engine performance, air conditioning, and basic auto body collision repair in addition to liberal arts courses.

**Career Opportunities:** Upon completion of the ASSET program students will be:

- Entry-level technicians
- Ford certified in several specialty areas
- Prepared to enter a career with their participating Ford or Lincoln dealership

The Automotive Technology Program prepares students for an entry level position in the Automotive/Transportation field and provide the opportunity to complete ASE certifications. Areas for the career opportunities include diagnosis and repair of automobiles and small trucks, with a strong emphasis on computer control diagnostics along with the opportunity to develop as an automotive technician, service manager, parts manager, sales and body specialist, dealership manager, parts store manager and manufacturing facility manager.

**Transfer Options:** The Automotive Technology Program prepares students to continue their education in a 4-year degree program Students must complete the A.A.S. degree with a minimum 2.0 grade point average to transfer into the Automotive B. Tech. program as a junior.

**Program Requirement:** Students are required to have a tool set and roll around tool box.

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

- Demonstrate professionalism appropriate for the auto service industry
- Perform diagnosis, service and repair of automotive internal combustion engines
- Perform diagnosis, service, and repair of automotive electrical/electronic systems

Perform diagnosis, service, and repair of automotive heating and air conditioning systems

Describe and follow safety and environmental guideline standards for the auto service industry

Perform diagnosis, service, and repair of automotive steering and suspension

**Graduation Requirements:** All AAS programs require a minimum of 60 credit hours including 20 credit hours from Liberal Arts and Science courses. To fulfill these requirements along with the required courses for this program, 63 credits are required for this program. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher.

## CURRICULUM REQUIREMENTS

Required Courses		Credits
ASET 111	Intro to Automotive Service	2
ASET 112	Intro Auto Electrical Systems	3
ASET 113	Intro to Braking Systems	3
ASET 121	Engine Repair	3
ASET 122	Electrical and Electronic Systems	4
ASET 125	ASSET Cooperative Training 1	1
ASET 211	Climate Control	2
ASET 212	Steering and Suspension Systems	3
ASET 213	Manual Transmission and Drive Trains	3
ASET 215	ASSET Cooperative Training 2	4
ASET 221	Automatic Transmissions	4
ASET 222	Engine Performance	4
ASET 225	ASSET Cooperative Training 3	1
AUTO 102	Metals	3
AUTO 155	Intermediate Automotive Electricity & Electronics	3
	OR	
ASET 160	Applied Electricity and Electronics	3
COMP 101 <sup>^</sup>	Composition and Research	3
PSYC 101 <sup>^</sup>	Introduction to Psychology	3
Science	(As Advised) to meet SUNY General Education	3-4
MATH	(As Advised) to meet SUNY General Education	3
Additional SUNY Gen Ed Credits		8
<b>TOTAL PROGRAM CREDITS</b>		<b>63</b>

<sup>^</sup>Courses on the Liberal Arts and Science list

Eight additional credits are needed to fulfill the 20 credit Liberal Arts and Science requirement

## BUSINESS ADMINISTRATION

### A.A.S. – CODE #0632

Business Administration is a ThinkPad University curriculum using laptop computers integrated into courses. This program is also offered at the Norwich Campus.

Graduates earning the associate in applied science degree in Business Administration are equally divided into two groups. Half transfer to bachelor degree programs and half go directly into the work force. Those going into the work force find jobs in marketing, finance, human resource management, or management training. They work with retailers, banks, food processors, publishers and other business or government organizations. This program is fully accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

The program is designed to develop the broad understanding and attitudes needed by men and women to qualify for a wide range of positions. Building upon

management skills acquired from the program, students should be capable of taking on the additional responsibilities of middle management as they acquire experience.

The course work consists of one-third liberal arts, sciences, and two-thirds business courses. The case study approach is used extensively and several courses incorporate computer applications and simulations. The specific courses offered give the student a well-rounded foundation from which to branch out in many directions.

**Career Opportunities:** Employment preparation for management training in human resources, corporate communications, marketing, public service and the service industry, self-employment or family business.

**Transfer Opportunities:** Although not designed with transfer in mind, students typically transfer to other business or technology-related bachelor degree program.

**Graduation Requirement:** Graduates must have 60 credits, including 20 credit hours in the Liberal Arts and Sciences. In addition, students must achieve a minimum grade point average of 2.0 overall and in core course requirements for graduation. Demonstrated proficiency through MATH 102 - Intermediate Algebra with Trigonometry is required for this program.

### Program Learning Outcomes:

To communicate effectively and purposefully, integrating technology into writing and presentations.

Identify problems, analyze information, and form conclusions within the business context.

To possess analytical/quantitative skills appropriate to the business community.

## CURRICULUM REQUIREMENTS

Required Courses		Credits
ACCT 101	Principles of Accounting I	3
ACCT 102	Principles of Accounting II	3
BSAD 100	Business in the 21st Century	3
	-or-	
BSAD 117	Introduction to Entrepreneurship	3
BSAD 102	Business Mathematics	3
BSAD 108	Business Law I	3
BSAD 112	Marketing	3
BSAD 116	Business Organization & Management	3
BSAD 140	Business Communications	3
	-or-	
COMP 110	Technical Communication	3
BSAD 221	Business Statistics	3
BSAD 295	Business Management & Decision Making	3
CITA 101	Principles of Computer Applications	3
BSAD	Elective	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
MATH 102	Intermediate Algebra with Trigonometry	3
ECON 100	Introduction to Macroeconomics	3

Additional General Elective Credits 4

Additional SUNY Gen Ed Credits 8

**TOTAL PROGRAM CREDITS 60**

Eight additional credits in 3 of the remaining 6 SUNY Gen Ed categories: Am Hist, West Civ, World Civ, Arts, Foreign Language, Natural Science

## BUSINESS ADMINISTRATION A.S. – CODE #0671

Business Administration is a ThinkPad University curriculum using laptop computers integrated into courses. This program is also offered at the Norwich Campus.

The associate in science degree in Business Administration requires half the course work to be divided among the humanities, the mathematics/science and the social science fields of study. The emphasis is in the mathematics/science area where four courses are required for graduation. The other half of the required course work is in the applied business area as described in the Business Administration A.A.S. degree description. This program is fully accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

While a large majority of students who graduate with the A.S. degree transfer to bachelor degree programs, experience has shown that the background acquired from the business courses is sufficient to make a student eligible for a wide range of positions in business and government, as well.

**Career Opportunities:** This degree is primarily a transfer program; however, some students chose to enter the workforce.

**Transfer Opportunities:** Students are prepared to enter business or related bachelor programs.

**Graduation Requirement:** Graduates must have 60 credits, including a total of 30 SUNY General Education courses in 7 of 10 categories. In addition, students must achieve a minimum grade point average of 2.0 overall and in the core course requirements for graduation.

### Program Learning Outcomes:

To communicate effectively and purposefully, integrating technology into writing and presentations.

Identify problems, analyze information, and form conclusions within the business context.

To possess analytical/quantitative skills appropriate to the business community

### CURRICULUM REQUIREMENTS

Required Courses		Credits
ACCT 101	Principles of Accounting I	3
ACCT 102	Principles of Accounting II	3
BSAD 100	Business in the 21st Century	3
BSAD 108	Business Law I	3
BSAD 112	Marketing	3
BSAD 116	Business Organization & Management	3
BSAD 203	Business Law II	3
BSAD 221	Business Statistics	3
BSAD 295	Business Management & Decision Making	3
CITA 101	Principles of Computer Applications	3
	OR	
CITA 110	Introduction to Information Technology	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
MATH 147	Selected Topics in Pre-calculus	3
ECON 100	Introduction to Macroeconomics	3
ECON 140	Introduction to Microeconomics	3
Natural Science	(As Advised)	3-4
Additional SUNY Gen Ed Credits		12
<b>TOTAL PROGRAM CREDITS</b>		<b>60</b>

Six credits in 2 of remaining 5 SUNY GER categories

Amer Hist, West Civ, World Civ, Foreign Lang, Arts

Six credits in any SUNY GER category

## COMPUTER-AIDED DESIGN TECHNOLOGY A.A.S. — CODE #2270

Computer-Aided Design Technology is a ThinkPad University Curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** Computer-Aided Design is a technical science that translates ideas into precise graphical and computer-based models. In a broad sense, the work of the designer/drafter is the language of industry. The Computer-Aided Design curriculum emphasizes the practical aspects of technical graphical communication, manufacturing processes, and mechanical design.

**Career Opportunities:** Graduates often work in the drafting and design departments of industrial firms as CAD drafter/designer, engineering technician, product designer, manufacturing technician under the direction of design chiefs or project engineers. They are prepared for work in the areas of product development and detailing, manufacturing design, and product design. Graduates advance rapidly with experience and additional training.

**Transfer Options:** Four-year transfer programs include industrial technology, manufacturing engineering technology and mechanical engineering technology.

**Program Learning Outcomes:** Upon successful completion of the program, the students will be able to:

- Apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities;
- Apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge;
- Conduct standard tests and measurements, and to conduct. Analyze, and interpret experiments;
- Function effectively as a member of a technical team;
- Identify, analyze, and solve narrowly defined engineering technology problems;
- Apply written, oral, and graphical communication in both technical and non-technical environment; and an ability to identify and use appropriate technical literature;
- Understand the need to engage in self-directed continuing professional development;
- Show a commitment to address professional and ethical responsibilities, including a respect for diversity; and
- Show a commitment to quality, timeliness, and continuous improvement.

**Graduation Requirements:** All AAS programs require a minimum of 60 credit hours including 20 credit hours from Liberal Arts and Science courses. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher and the average of all grades in the program core courses must be 2.0 or higher.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
CAD 184	Computer-Aided Drafting for Mechanical Design	2
CAD 186	3D Parametric Solid Modeling	2
CAD 288	Advanced Solid Modeling	2
DRFT 151	Engineering Drawing	2
DRFT 252	Geometric Dimensioning and Tolerancing	2
MFG 110	Dimensional Metrology	2
MFG 206	CNC Machining	3
MFG 207	Quality Control	2
MFG 208	Computer Aided Manufacturing – Mastercam	2
MFG 221	Manufacturing Processes I	3
MFG 240	Design/Manufacture Capstone	3
MECH 101	Machine Tools	3
MECH 120^	Engineering Materials	3



MECH 211^	Analytical Mechanics	3
MECH 212	Mechanical Design	4
MECH 213^	Strength of Materials	4
PHYS 107^	Introductory Physics I	4
COMP 101^	Composition and Research	3
MATH 103^	College Algebra with Trigonometry	3
	Or higher in the algebra/calculus sequence	
COMP 110^	Technical Communications	3

Additional General Elective Credits	5
<b>TOTAL PROGRAM CREDITS</b>	<b>60</b>

^Courses on the Liberal Arts and Science list

Five additional credits are needed to fulfil the 60 credit requirement for an AAS degree

## COMPUTER INFORMATION SYSTEMS A.A.S. – CODE #0581

Computer Information Systems is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** Concepts of computer information systems are of crucial importance in modern organizations, both in attaining effective management control and in decision making. The college has designed a Computer Information Systems curriculum in accordance with guidelines suggested by the Data Processing Management Association Education Foundation. It provides the student with the knowledge needed to understand the theory, application and potential of information technology. It is designed to bridge the technical-business gap which exists between Computer Science and Data Processing by offering a broad-based technical, information systems and business education.

This rigorous program combined with education in the liberal arts and sciences prepares the student for transfer to upper-division colleges or for employment as entry-level programmer analysts in information technology organizations.

The student's educational experience is enhanced by campus computing facilities. Students receive practical hands-on experience in interactive program development in a networked, pc-based windows programming environment. These systems support the latest software packages for spreadsheets, graphics, database, communications, and multimedia development.

**Career Opportunities:** Computer programmer, programmer analyst, system analyst trainee, network technician, computer operator, computer sales and office systems management.

**Transfer Options:** Students could transfer to other business, Information Technology or technology-related bachelor degree programs.

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

Employ critical thinking and problem solving skills in developing technical solution.

Apply formal design methodologies to design information systems.

Explain theories regarding the application of information technologies to the solution of business problems.

Create and modify functional, clear, concise software design and implement with current programming languages.

Demonstrate proficiency in two or more operating systems or database systems.

Create functional Web pages using scripting language.

Install, configure, troubleshoot, and administer a basic network.

**Graduation Requirements:** All AAS programs require a minimum of 64 credit hours including 20 credit hours from Liberal Arts and Science courses. To fulfill these requirements along with the required courses for this program, 64 credits are required for this program. These requirements are fulfilled in the following list of

courses for this program.

**GPA:** Overall GPA of 2.00 or higher and GPA of 2.00 or higher for CITA required courses

**Math Requirement:** Students must complete 6 hours of Math including successful completion of MATH 103 or a higher level Math course.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
CITA 110	Introduction to Information Technology	3
CITA 120	Computer Concepts and OS	3
CITA 140	Introduction to Programming	3
CITA 200	Data Communications & Networking	3
CITA	As Advised	3
CITA 210	Visual Programming and Development Tools	3
CITA 220	Systems Analysis	3
CITA 280	Tools & Techniques for Application Dev	3
ACCT 101	Principles of Accounting I	3
BSAD 116	Business Organization and Management	3
COMP 101^	Composition and Research	3
COMP 102^	Writing about Literature	3
ECON 100^	Introduction to Macroeconomics	3
MATH 103^	College Algebra with Trigonometry	3
MATH^	As Advised	3

Additional General Elective Credits	9
Additional SUNY Gen Ed Credits	4
<b>TOTAL PROGRAM CREDITS</b>	<b>64</b>

^Courses on the Liberal Arts and Science list

Five additional LAS credits are needed to fulfill the 20 credit Liberal Arts and Science requirement

Four additional credits are needed to fulfill the 60 credit requirement for an AAS degree

## COMPUTER INFORMATION SYSTEMS A.S. – CODE #1171

Computer Information Systems is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** The Computer Information Systems A.S. degree is a modification of the Computer Information Systems A.A.S. degree, designed to prepare students to continue their education in Computer Information Systems or Management Information Systems in a four-year program. The curriculum has been designed in accordance with guidelines suggested by the Data Processing Management Association Education Foundation.

The student's educational experience is enhanced by campus computing facilities. Students receive practical hands-on experience in interactive program development in a networked, pc-based windows programming environment. These systems support the latest software packages for spreadsheets, graphics, database, communications, and multimedia development. Students have full Internet access through popular Web browsers.

**Career Opportunities:** Primarily a transfer program.

**Transfer Options:** This degree is specifically designed with transfer in mind. Students could transfer to other business, Information Technology, technology-related or other bachelor programs directly.

**Program Learning Outcomes** - Upon successful completion of this program, students will be able to:

Employ critical thinking and problem solving skills in developing technical solution.

Apply formal design methodologies to design information systems.

Explain theories regarding the application of information technologies to



the solution of business problems.

Create and modify functional, clear, concise software design and implement with current programming languages.

Demonstrate proficiency in two or more operating systems or database systems.

Create functional Web pages using scripting language.

Install, configure, troubleshoot, and administer a basic network.

#### Graduation Requirements:

All AS programs require a minimum of 64 credit hours including 30 credit hours from SUNY general education courses, with courses in seven of the ten SUNY general education categories. To fulfill these requirements along with the required courses for this program, 64 credits are required for this program. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher and GPA of 2.00 or higher for CITA required courses

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
CITA 110	Introduction to Information Technology	3
CITA 120	Computer Concepts and OS	3
CITA 140	Introduction to Programming	3
CITA 200	Data Communications & Networking	3
CITA	(As Advised)	3
CITA 210	Visual Programming and Development Tools	3
CITA 220	Systems Analysis	3
ACCT 101	Principles of Accounting I	3
ACCT 102	Principles of Accounting II	3
BSAD 116	Business Organization and Management	3
COMP 101*	Composition and Research	3
COMP 102*	Writing about Literature	3
ECON 100*	Introduction to Macroeconomics	3
MATH 151*	General Calculus A	3
MATH*	(As Advised)	3
Additional General Elective Credits		4
Additional SUNY Gen Ed Credits		15
<b>TOTAL PROGRAM CREDITS</b>		<b>64</b>

\*Courses on the SUNY General Education list

MATH, BC, and SS categories are fulfilled in the required courses

Fifteen additional SUNY General Education credits are needed to fulfill the 30 credit SUNY requirement.

## CRIMINAL JUSTICE

### A.A.S. — CODE #1100

This Criminal Justice program is available only at the Norwich Campus. It is designed to prepare students for professional employment in the criminal justice, corrections, or security field.

In recent years, the need for police and security officers has increased significantly along with the professional expectations and performance standards. The Criminal Justice program is designed for students seeking entry level employment in the Criminal Justice field and for current employees interested in advancement. Students earning this degree may continue their education to the bachelor degree level or beyond.

The goal of this program is to help students develop the necessary knowledge, skills, and abilities required for success as criminal justice professionals. Program graduates will be eligible for employment in the full range of law enforcement careers including policing, corrections, security, criminal investigation, and related career areas. Graduates are expected to find a wide range of employment options with public and private agencies.

**Career Opportunities:** According to the US Department of Labor, opportunities for employment in Criminal Justice are expected to be well above the average for other career fields. Area Corrections and Police agencies have indicated a strong interest in this program and anticipate openings for graduates. Potential employers include: Municipal and State Police, County Sheriff's Departments, NY State Department of Corrections, the Court System, Corporate Security and more.

**Transfer Opportunities:** Although this program is not designed as a transfer program, conversations with representatives of area institutions suggest that graduates of the Criminal Justice program will receive favorable consideration for admission to bachelor degree programs. Norwich Campus students often report feeling well prepared to continue their education beyond their associate degree studies. In fact, many students have successfully completed a bachelor degree and graduate study following their studies at Norwich. Binghamton University, SUNY Oneonta, and Cortland are the largest "receiving" institutions for Norwich Campus graduates due to their proximity.

**Graduation Requirements:** Students will be required to maintain a 2.0 Grade Point Average to remain in the program. Students must complete all major course work with a 2.0 or above to be eligible for graduation in this major. A minimum of 20 credit hours is required in the humanities, mathematics or sciences and social sciences areas. Completion of MAGN 101\* is required but this math does not meet the General Education requirement nor the Math/Science minimum requirement content area as stated above (Math 102 is highly recommended). Sixty-two credits in coursework, as described below, are required to graduate.

**AAS Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

- Effectively document investigations, incidents, and other information consistent with nationally recognized legal criterion.
- Identify, collect, and preserve evidence according to standard police practice utilizing traditional, current, and technological methods in a manner that is mutually beneficial to all of the stakeholders in the criminal justice system.
- Apply penal and criminal procedure laws in a law enforcement context.

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
CJUS 101	Introduction to Criminal Justice Systems	3
CJUS 201	Corrections	3
CJUS 202	Policing	3
CJUS 220	Criminal Investigation I	3
CJUS 221	Criminal Investigation II	3
CJUS 230	Basics of Penal Law	3
CJUS 231	Criminal Law Procedure	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
PSYC 101	Introduction to Psychology	3
SOCI 101	Introduction to Sociology	3
MAGN 101	Elementary Algebra w/ Trigonometry OR	3
MAGN 107	Mathematical Literacy	3
OFFT 100	Introduction to Word Processing	1
OFFT 106	Personal Keyboarding	1
POLI 113	American Judicial System	3
PHED	Physical Education as advised OR	3
WELL 101	Stress and Wellness	3
GNED 100	Freshman Experience	2
HIST	U.S. History. World History, or European History	3
	Foreign Language (as advised)	6
	MATH and/or Science (as advised)	6
Additional General Elective Credits		1
<b>TOTAL PROGRAM CREDITS</b>		<b>62</b>

## CULINARY ARTS MANAGEMENT

### A.A.S – CODE #2392

Culinary Arts Management is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

The Culinary Arts Management program combines classroom time, laboratory learning, hands-on experience and cooperative work experiences with a goal of developing students who are both ready for the world of work or for transfer to an upper-level curriculum. The program has a foundation in culinary arts courses focusing on basic skills, garde manger, meat/seafood/poultry fabrication, stocks, sauces, soups, baking and pastry. Students will also progress through management and business classes to a final semester capstone course where they will assist in the operation of the kitchen at the Copper Turret Restaurant in the Village of Morrisville. The Copper Turret, which is operated year round by the Morrisville Auxiliary Corporation, will serve as the learning laboratory for this program. Students will be prepared for positions in restaurants, country clubs, resorts, banquet facilities, commercial kitchens, and all other food service operations.

The Culinary Arts Management program leads to an Associate in Applied Science (A.A.S.) degree and provides students with a culinary education that has depth and breadth as well as crucial work experience. The Culinary Arts Management program is designed to expose students to a broad range of career options to which they can add specificity through their work experience during and after completing the curriculum.

**Career Opportunities:** Graduates of the program are prepared for positions as chefs, sous chef, line cook, kitchen manager, pastry chef, garde manger, and shift managers in restaurants, schools, health care and university food operations, and other institutions.

**Graduation Requirements:** Students graduating from this program must complete a minimum of 63 credits hours earned and maintain at least a 2.0 gpa. Students must also complete at least 20 credit hours in Liberal Arts and Sciences. Also a residency requirement of 30 credit hours at SUNY Morrisville must be met.

#### STUDENT LEARNING OUTCOMES:

Upon completion of this program graduates will be able to:

- Demonstrate skills and knowledge required of culinarians and apply them in a commercial kitchen operation.
- Demonstrate industry-standard knowledge and skills regarding sanitation, food safety, nutrition and supervision in the hospitality industry.
- Anticipate and manage labor and food costs in order to operate an economically sustainable establishment.
- Demonstrate the ability to work in a professional bakery.
- Demonstrate the ability to work in a professional kitchen as a prep, line and pantry cook.
- Demonstrate an understanding of purchasing in the hospitality industry by writing food specifications, applying purchasing practices, interpreting market trends, using new technology applications, and analyzing operational cost control.
- Explain basic concepts involved in marketing and how they can be applied to food service operations to facilitate financial objectives.
- Identify and illustrate the basic elements of equipment design and layout in food service facilities.
- Possess an extensive business portfolio that displays an up to date resume, cover letter, skill set, work philosophy, career goals and extensive work samples.
- Demonstrate an understanding of the global hospitality industry and how the food service industry fits

\*Math if elected must be at or above MATH 102 – Intermediate Algebra with Trigonometry in order to count toward the general education requirements for graduation.

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
CUL 101	Culinary Arts 1	4
CUL 111	Professional Baking	3
CUL 201	Advanced Culinary Arts	4
CUL 211	Culinary Restaurant	6
CAS 240	Hospitality Sales and Marketing	3
FSAD 102	Applied Food Service Sanitation	1
FSAD 153	Fundamentals of Hospitality Management	3
FSAD 154	Equipment Selection and Layout	3
FSAD 201 or	TOUR 251 Summer Co-op	2
FSAD 255	Food Purchasing and Cost Control	4
FSAD 257	Senior Seminar	1
NUTR 108	Basic Nutrition	3
FSAD 200	Internship in Customer Service or	
TOUR 106	Intro Travel/Tourism & Hospitality Industry	3
ACCT 100	Accounting Information and Management	
	Decisions	3
ENGL/COMP	(as advised)	3
Additional SUNY General Education Credits		17
<b>TOTAL PROGRAM CREDITS</b>		<b>63</b>

\*Seventeen additional SUNY Gen Ed credits in at least four general education categories

## DIESEL TECHNOLOGY

### A.O.S.—CODE #1604

Diesel Technology is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

This A.O.S. program consists of courses in vehicular and industrial mechanics. The curriculum is best suited for those students who wish to find immediate employment working on diesel and all aspects of industrial and agricultural equipment. The student is allowed to take a variety of courses to gain a broad background in state-of-the-art technology.

**Career Opportunities:** Truck repair, trailer repair, auto repair, sales and service of farm and industrial equipment, service manager, diesel fuel system technician.

#### Program Learning Outcomes:

- Develop a comprehensive understanding of the mechanical function of the compression-ignition engines.
- Develop a comprehensive understanding of electrical systems and electronic controls used for diesel-powered equipment.
- Develop a comprehensive understanding of hydraulic systems, components and control systems used for transmitting hydraulic power in diesel-powered equipment.
- Develop the ability to accurately and efficiently diagnose and repair failures in mechanical, electrical and hydraulic systems in diesel-powered equipment.

**Graduation Requirements:** Minimum 60 credit hours with a 2.0 minimum GPA and all required courses. 20 credit ours of Liberal Arts. Demonstrated Proficiency through MAGN 101.

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
DTEC 105	Diesel Powertrains I	4
DTEC 110	Diesel Powertrains II	4
DTEC 125	Diesel Electrical Systems	4
DTEC 150	Diesel Systems	3
DTEC 225	Diesel Electronics	4
AGEN 131	Fundamentals of Hydraulics	3
DTEC 350	Advanced Diesel Fuel Systems	3
AGEN 161	Basic Hydraulics	3
AUTO 102	Metals	3

AGEN 261	Advanced Hydraulics	4
AGEN 270	Tractor Overhaul and Repair OR	5
DTEC 300	Diesel Equipment Technology Internship II	4
AUTO 260	Automotive Air Conditioning	1
OFFT 110	Introduction to Spreadsheet Software	1
RENG 102	Renewable Energy Resources	3
AGEN 100	Tractor Care and Maintenance	3

Additional General Elective Credits	12
<b>TOTAL PROGRAM CREDITS</b>	<b>60</b>

General Elective Course Selection (12 Credits are required)

DTEC 151	Seminar in Caterpillar Power Systems	2
DTEC 290	Diesel Equipment Technology Internship I	1
DTEC 295	Diesel Equipment Technology Internship III	1
DTEC 300	Diesel Equipment Technology Internship II	4
AGEN 103	Natural Resources Equipment Operation	2
AGEN 120	Water Supply and Sanitation	3
AGEN 210	Small Power Equipment II	3
AGBS 230	Agricultural Business Management	2
AUTO 109	Chassis Analysis I	4
AUTO 202	Auto Body Fundamentals	3
AUTO 203	Internal Combustion Engines II	3
AUTO 209	Chassis Analysis II	3
AUTO 259	Auto Body Non-structural Repair and Refinishing	3
DTEC 325	Electrical Power Generation	3

## DIESEL EQUIPMENT TECHNOLOGY A.A.S. – CODE #2391

Diesel Equipment Technology is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

The A.A.S. curriculum was patterned after an industrial training curriculum. This curriculum offers courses in agricultural, industrial and vehicular mechanics. The program provides the courses necessary to move from the technician level to management within a business. It is designed for students who may be considering additional course work after completing their two-year degree.

**Career Opportunities:** Diesel technician - truck, construction, electric power generation, agricultural, service writer, vocational teacher (with additional education), parts technician and factory representative.

### Program Learning Outcomes:

- Develop a comprehensive understanding of the mechanical function of the compression-ignition engines.
- Develop a comprehensive understanding of electrical systems and electronic controls used for diesel-powered equipment.
- Develop a comprehensive understanding of hydraulic systems, components and control systems used for transmitting hydraulic power in diesel-powered equipment.
- Develop the ability to accurately and efficiently diagnose and repair failures in mechanical, electrical and hydraulic systems in diesel-powered equipment.

**Graduation Requirement:** Minimum 62 credit hours with a 2.0 minimum GPA and all required courses. 20 semester ours of Liberal Arts. Demonstrated proficiency through MATH 102.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
AGEN 161	Basic Hydraulics	3
DTEC 105	Diesel Powertrains I	4
DTEC 110	Diesel Powertrains II	4

DTEC 125	Diesel Electrical Systems	4
DTEC 150	Diesel Systems	3
DTEC 225	Diesel Electronics	4
AGEN 131	Fundamentals of Hydraulics	3
DTEC 350	Advanced Diesel Fuel Systems	3
AGEN 100	Tractor Care and Maintenance	3
AUTO 102	Metals	3
AGEN 261	Advanced Hydraulics	4
AGEN 270	Tractor Overhaul and Repair	5
	-or-	
DTEC 300	Diesel Equipment Technology Internship II	4
AUTO 260	Automotive Air Conditioning	1
OFFT 110	Introduction to Spreadsheet Software	1
COMP 101	Composition and Research	3
COMP 110	Technical Communications	3
	Natural Science as Advised	4
MATH 102	Intermediate Algebra with Trigonometry	3

Additional SUNY Gen Ed Credits	4
<b>TOTAL PROGRAM CREDITIS</b>	<b>62</b>

## DIETETIC TECHNICIAN/ NUTRITION CARE A.A.S. – CODE #2513

Dietetic Technician – Nutrition Care - is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses

**Program Description:** The Dietetic Technician program focuses on the role of human nutrition in health and disease as well as the application of nutrition principles in wellness, fitness, and total health. Nutrition also encompasses the areas of food systems management and spa cuisine. Students gain practical experience along with the theoretical content presented in the classroom.

**Accreditation:** The Dietetic Technician degree program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics, a specialized accrediting body recognized by the United States Department of Education. For more information, please contact:

### Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics

120 South Riverside Plaza, Suite 2190  
Chicago, IL 60606-6995, (312) 899-0040 ext. 5400  
<http://www.eatrightPRO.org/ACEND>

Upon completion of the associate degree Dietetic Technician program, students will meet the requirements to sit for the national credentialing exam administered by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics. With successful passage of the exam, graduates will become Dietetic Technicians, Registered (DTR).

**Career Opportunities:** Graduates of this program will be able to become a member of the health care, wellness, or food management team. Graduates are eligible for employment in community nutrition settings as well as health and fitness clubs, corporate wellness programs, school lunch programs, hospitals, nursing homes and other health care settings. In these roles the Dietetic Technician complements the role of the Registered Dietitian in the assessment, planning, implementation, and evaluation of nutritional care. Many graduates of the program continue their education as a Registered Dietitian or in an allied field such as adult fitness, sports nutrition, sports physiology, home economics, or health education.

**Transfer Options:** Students who successfully complete this program transfer to a variety of educational programs both within the SUNY system and in private colleges and universities. Examples of transfer agreements with local universities include Syracuse University, SUNY Oneonta, SUNY Plattsburg and Rochester Institute of Technology.

**Additional Expenses** - Including but not limited to:

Students will arrange for their own transportation to the field experience in NUTR 270 during the last semester of the program (Note: Several field experiences are available for NUTR 270 on a limited basis for students with documentation stating they cannot physically drive a motor vehicle).

Academy of Nutrition & Dietetics student membership - \$50.00 (annual)

Student Professional Liability Insurance - \$24.00 (annual)

Course uniforms - \$80.00

Course Laboratory Fees - \$80.00

Nutrition Conference Fee - \$30.00

**Additional Information:** A sample class schedule, articulation agreement documents, and scholarship opportunities may be found on the program's Web site.

**Health Requirements:**

Student Health Requirements Include All of the Following:

Documentation of receipt of two (2) MMR vaccines after age 12 months or Positive Titer results for Rubella, Rubeola, and Mumps

PPD test- proof of test and results within 1 year.

Varicella (past history of disease, antibody titer, or documentation of vaccine)

Physical exam information updated within 1 year.

Your signature to release information to the Nutrition and Dietetics Department and to the Field Experience facilities

The signature of the physician (or other health profession who performed the physical)

It is recommended that students become immunized with the Hepatitis B Vaccine. Students need documentation that all 3 doses have been administered or that a waiver is on file.

Dietetic Technician students are required to adhere to the same public health laws and facility regulations as employees. Students are responsible for all fees associated with meeting health requirements. Students must meet the facility health requirements and have the ability to meet clinical objectives with or without reasonable accommodations. Students must demonstrate:

The strength and manual dexterity to perform in all clinical, food service and community settings and to maintain the safety of clients without posing a threat to themselves.

The visual, hearing, and speech skills requisite to client nutrition assessment and professional performance including reading, gathering client information and performing any other procedures related to patient care and education.

**Program Outcomes:**

GOAL I: Educate students for immediate employment in the nutrition and dietetics field and provide a Dietetic Technician program that is responsive to the State's labor needs for emerging food and nutrition technologies.

- 100 % of students who complete the program will have achieved a satisfactory grade of C or better for all measures of entry-level competencies.
- 75% of the program graduates will take the CDR credentialing exam for nutrition and dietetic technicians within 12 months of program completion.
- The program's one-year pass rate (graduates who pass the registration exam within one year of first attempt) on the CDR credentialing exam for nutrition and dietetic technicians is at least 70%.
- Of graduates who seek employment, 80% are employed in nutrition and dietetics or related fields within 12 months of graduation.
- Graduate entry-level practice skills will be rated as average or above by 80% of the employers of program graduates.
- 80% of past graduates will rate the program as satisfactory or better when surveyed on their preparation for employment and/or further education.

GOAL II: Provide education in applied nutrition and dietetics to students which is

compatible with transfer to baccalaureate programs.

- 100% of the current formal articulation agreements with 4 year institutions will be maintained for transfer of our students to these programs
- 90% of those with a GPA > 2.75 who apply will be accepted to a baccalaureate program within one year of graduation from SUNY Morrisville to become a registered dietitian.
- 80% of those accepted to a four-year program will complete the degree in three years.

GOAL III: Provide assessment and counseling to all students and provide support and resources to those who may need to access preparatory courses to develop the basic skills in communications, computation, problem solving, and time management that are needed to perform satisfactorily in entry level course work.

- 90% of full time students will attain a 2.0 GPA at the interim grade period of six weeks each semester.
- 90% of full time students will attain a 2.0 GPA at the end of each semester. At-risk students will be identified within the first semester.
- 100% of students at risk in math and science will be identified after their admission but prior to their first semester in the DT program.
- 90% of the seniors will express satisfaction with the nutrition courses they have completed in the DT program with respect to the support of their knowledge and skill building.
- At least 80% of program students will complete the degree/program requirements within three years.

**Graduation Requirements:** All AAS programs require a minimum of 60 credit hours including 20 credit hours from Liberal Arts and Science courses. To fulfill these requirements along with the required courses for this program, 64 credits are required for this program. These requirements are fulfilled in the following list of courses for this program.

Suitable academic progress in the Dietetic Technician Program is defined as a grade of 75 percent, C, or better in each nutrition, field experience and human anatomy and physiology courses. Students must also complete all required practice hours before proceeding to the next sequential course or to graduate.

**GPA:** Overall GPA of 2.00 or higher.

**CURRICULUM REQUIREMENTS**

Required Courses		Credits
NUTR 110	Nutrition I	3
NUTR 115	Health Field	2
NUTR 160	Diet Therapy	3
NUTR 170	Field Experience I	3
NUTR 210	Lifecycle Nutrition	3
NUTR 219	Orientation Supervised Field Experience	1
NUTR 220	Summer Supervised Field Experience	2
NUTR 225	Educational Methods for Food and Health Fields	3
NUTR 230	Field Experience II	3
NUTR 260	Meal Management	3
NUTR 270	Field Experience III	3
FSAD 101	Quantity Food Preparation and Service	3
FSAD 102	Applied Food Service Sanitation	1
FSAD 255	Food Purchasing and Cost Control	4
FSAD 257	Senior Seminar	1
BSAD 116	Business Organization & Management	3
BIOL 150^	Human Anatomy and Physiology I	4
BIOL 151^	Human Anatomy and Physiology II	4
COMP 101^	Composition and Research	3
COMP 102^	Writing about Literature	3
MATH 123^	Elementary Statistics	
	-or-	
MATH 141^	Statistics	3
PSYCH 101^	Introduction to Psychology	3
SOCI 101^	Introduction to Sociology	3



**TOTAL PROGRAM CREDITS**

64

^Courses on the Liberal Arts and Science list

## EARLY CHILDHOOD A.A.S. – CODE EARLY CHILDHOOD A.A.S. – CODE #1327

The Early Childhood program is available only at the Norwich Campus. The program is designed to prepare students for employment as Early Childhood professionals.

The U.S. Department of Labor - Bureau of Labor Statistics ([www.bls.gov](http://www.bls.gov)) projects continued strong employment opportunities for Early Childhood professionals for the foreseeable future. The curriculum provides those individuals seeking to pursue a career in this field with the knowledge, skills and experiences required for success. This program is designed to effectively prepare students to enter careers that do not require teacher licensure or certification. The New York State Department of Education ([www.nysed.gov](http://www.nysed.gov)) and the National Association for the Education of Young Children ([www.naeyc.org](http://www.naeyc.org)) encourage rigorous training and education requirements for early childhood professionals. Research suggests a significant relationship between providers' education and training and the quality of early education and care young children receive. As a result of federal legislation, continuing professional education is becoming increasingly important for many early childhood professionals already employed in the field.

**Accreditation:** This degree program meets all of the standards set forth by the National Association of the Education of Young Children (NAEYC). Accordingly, the College is actively pursuing NAEYC accreditation.

**Career Opportunities:** Child Care Center Head Classroom Teacher or Teacher Aide; Licensed Family Child Care Provider; Teacher Assistant in Universal Pre-K; Teacher Assistant in Elementary School, After school program site leader, Head Start and Early Head Start teacher/ home visitor (Note: Students in NY State must take a comprehensive exam to get certification as a Teacher Assistant); Special Education Assistant (Pre- K-grade 6); Nursery School Teacher or Teaching Assistant; Early Head Start Teacher, Assistant or Parent Educator/ Family Advocate Worker; Head Start Classroom Teacher, Teacher Assistant, Parent Educator/Family Advocate Worker; Governess or Nanny; Counselor in a Children's Residential Facility; Social and Human Services Assistants (e.g., Case Management Aide, Social Work Assistant, Community Support Worker, Community Outreach Worker, etc.).

**Transfer Opportunities:** Although this program is not designed as a transfer program, conversations with representatives of area institutions suggest that graduates of the Early Childhood program will receive favorable consideration for admission to bachelor degree programs. Norwich Campus students often report feeling well prepared to continue their education beyond their associate degree studies. In fact, many students have successfully completed a bachelor degree and graduate study following their studies at Norwich. Binghamton University, SUNY Oneonta, and Cortland are the largest "receiving" institutions for Norwich Campus graduates due to their proximity. Students also transfer to Empire State College and other institutions offering online study.

**Graduation Requirements:** A minimum of 65 credits of required coursework, a GPA of 2.0 or higher, a C grade or better in Practicum/Field Experience, and a comprehensive Early Childhood Portfolio.

**Program Learning Objectives:** The outcomes listed below meet the National Association for the Education of Young Children (NAEYC) Standards for Associate Degree Programs [http://www.naeyc.org/caep/files/caep/Initial\\_2pager.pdf](http://www.naeyc.org/caep/files/caep/Initial_2pager.pdf)

Upon successful completion of this program, students will be able to:

**Standard 1 – Promoting Child Development and Learning.** Create environments that are healthy, respectful, supportive, accepting and challenging to all children. KEY ELEMENTS: Knowing and understanding young children's characteristics and needs; Knowing and understanding the multiple influences on development and learning; Using developmental knowledge to create healthy, respectful, supportive, and challenging learning environments.

**Standard 2 – Building Family and Community Relationships.** Create respectful,

reciprocal relationships with families that support and involve families in their children's development. KEY ELEMENTS: Knowing about and understanding diverse family and community characteristics; Supporting and engaging families and communities through respectful, reciprocal relationships; Involving families and communities in their children's development and learning.

**Standard 3 – Observing, Documenting and Assessing to Support Young Children and Families.** Use effective assessment tools such as observations and documentations to positively influence children's development. KEY ELEMENTS: Understanding the goals, benefits, and uses of assessment; Knowing about and using observation, documentation, and other appropriate assessment tools and approaches; Knowing about assessment in partnerships with families and with professional colleagues.

**Standard 4 – Using Developmentally Effective Approaches to Connect with Children and Families.** Effective teachers design activities, routines, interactions, and curriculum for specific children and groups of children. KEY ELEMENTS: Understanding positive relationships and supportive interactions as the foundation of their work with children; Knowing and understanding effective strategies and tools for early education; Using a broad repertoire of developmentally appropriate teaching/learning approaches; Reflecting on their own practice to promote positive outcomes for each child.

**Standard 5 – Using Content Knowledge to Build Meaningful Curriculum.** Candidates develop curriculum to include both planned and spontaneous experiences that are developmentally appropriate, meaningful, and challenging for all young children, including those with developmental delays or disabilities. KEY ELEMENTS: Understanding content knowledge and resources in academic disciplines; Knowing and using the central concepts, inquiry tools, and structures of content areas or academic disciplines; Using their own knowledge, appropriate early learning standards, and other resources to design, implement, and evaluate meaningful, challenging curricula for each child.

**Standard 6 – Becoming a Professional.** Conduct themselves in a completely professional manner at all times. Reflect on and evaluate one's professional role as a team member, lifelong learner, and advocate for children and families. Use state of the art computer and other technologies efficiently and effectively in service of children, families, the employer, and one's own professional development. KEY ELEMENTS: Identifying and involving oneself with the early childhood field; Knowing about and upholding ethical standards and other professional guidelines; Engaging in continuous, collaborative, learning to inform practice; Integrating knowledgeable, reflective, and critical perspectives on early education; Engaging in informed advocacy for children and the profession.

**Standard 7 - Field experiences and clinical practice** are planned and sequenced so that candidates develop the knowledge, skills and professional dispositions necessary to promote the development and learning of young children across the entire developmental period of early childhood in at least two of the three early childhood age groups (birth age 3, 3 through 5, 5 through 8 years) and in the variety of settings that offer early education (early school grades, child care centers and homes, Head Start programs).

### CURRICULUM REQUIREMENTS

Required Courses		Credits
ECHD 101	Introduction to Early Childhood	3
ECHD 102	Social Development and Positive Guidance	3
ECHD 103	Techniques of Observation and Assessment - Field 1	3
ECHD 201	Family and Child Health and Safety	3
ECHD 202	Language Literacy & Literature in Early Childhood	3
ECHD 203	Infants and Toddlers	3
ECHD 204	Children with Special Needs	3
ECHD 205	Creative Activities in the Arts	3
ECHD 206	Curriculum Methods, Materials, and Management	3
ECHD 212	Practicum in Early Childhood - Field Experience II	4
PSYC 241	Child Development	3
SOCI 220	Marriage and the Family	3
CITA 101	Principles of Computers and Applications	3



	OR	
OFFT 109& 110	Computer Software	2
GNED 104	Library Research Methods	1
COMP 101	Composition & Research	3
COMP 102	Writing About Literature	3
MATH 102	Algebra and Trigonometry II	3
PSYC 101	Introduction to Psychology	3
HIST	U.S. History, World History, or European History	3
SPAN 101	Beg. College Spanish I	3
	OR	
AMSL 101	Am. Sign Language I	3
BIOL 105	Human Biology with Lab	4
	OR	
BIOL 101	Introduction to Biology	4
Additional General Elective Credits		3
<b>TOTAL PROGRAM CREDITS</b>		<b>66</b>

#### General Elective Selection List (3 credits required):

PSYC 284	Psychology of Gender	3
PSYC 270	Drugs, Society and Behavior	3
HIST 220	African American History	3
SOCI 201	Social Problems in 21st Century	3
PSYC 255	Psychology of Personal Adjustment	3
PSYC 251	Abnormal Psychology	3
PSYC 386	Social Psychology	3

## ENGINEERING SCIENCE

### A.S. – CODE #0530

Engineering Science is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** Engineering Science is a transfer program designed for students with high school preparation in mathematics and science who plan to continue their education at colleges of engineering. This program provides the core of knowledge common to all engineering disciplines such as chemical, civil, electrical/computer, and mechanical engineering. Students wishing to specialize in a pure science are also provided with a strong background to enable them to continue in their chosen field. Students benefit from relatively low costs, small classes and individual faculty attention.

Conditional acceptance may be given to students who are interested in engineering science, but whose high school preparation does not meet the usual requirements for admission to the program.

Candidates for the A.S. in Engineering Science must be full time, in residence and matriculated in Engineering Science for the entire second year.

**Career Opportunities:** Should a student decide to terminate his/her education with the associate in science degree, there are employment opportunities in such positions as engineering assistant and laboratory technician.

**Transfer Options:** This rigorous program has resulted in successful transfer opportunities for graduates with two additional years typically required for completion of the B.S. degree in all engineering fields. Graduates receive high priority when transferring to New York state engineering schools. Many four-year colleges and universities offer scholarships and other incentives to graduates of the Engineering Science program. Students can transfer to aero-, bio-, chemical, civil, electrical/computer, forest, mechanical, and allied engineering programs.

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

Apply concepts form mathematics and the physical sciences to engineering problems.

Analyze and interpret experimental data as a means of finding solutions to engineering problems.

Communicate effectively, integrating text and graphical representation of engineering students.

Formulate engineering models of physical systems.

Utilize computational and numerical techniques in the solution of engineering problems.

#### Graduation Requirements:

All AS programs require a minimum of 60 credit hours including 30 credit hours from SUNY general education, courses with courses in seven of the ten SUNY general education categories. To fulfill these requirements along with the required courses for this program, 67 credits are required for this program. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
ENGR 100	Introduction to Engineering	3
ENGR 135	Computing and Numerical techniques	3
MATH 161*	Calculus I	4
MATH 162*	Calculus II	4
MATH 261*	Calculus III	4
MATH 262*	Differential Equations	4
PHYS 154*	University Physics I (Mechanics)	4
PHYS 155*	University Physics II (Electricity & Magnetism)	4
CHEM 141*	Chemistry Principles I	3
CHEM 141L*	Laboratory for Chemical Principles I	1
COMP 101*	Composition and Research	3
COMP 102*	Writing about Literature	3

#### DISCIPLINE SPECIFIC REQUIREMENTS

ENGR 201	Statics	3
ENGR 202	Dynamics	3
ENGR 210	Electrical Systems (Circuits I)	3
ENGR 212*	Mechanics of Materials	3

TRANSFER PATHWAY ELECTIVE CREDITS	6
SUNY GENERAL EDUCATION CREDITS*1	9
<b>TOTAL PROGRAM CREDITS</b>	<b>67</b>

\*Courses on the SUNY GER list 1 NAT SCI, BC, HUMN and MATH categories are fulfilled in the required courses. Three additional SUNY General Education courses are needed to fulfill the 7 categories requirement

#### TRANSFER PATHWAY ELECTIVES TO INCLUDE

CHEM 142		4
	CHEMISTRY II WITH LAB	
CHEM 241 / 241L		4
	ORGANIC CHEMISTRY I	
CHEM 242 / 242L		4
	ORGANIC CHEMISTRY II	
PHYS 254 (old PHYS 158)		3
	THERMODYNAMICS	
PHYS 255		3
	MODERN PHYSICS	
CHEM 361		3
	BIOCHEMISTRY	

## ENVIRONMENTAL & NATURAL RESOURCE CONSERVATION

### A.S. – CODE #1843

The Environmental and Natural Resources Conservation A.S. program was crafted so students can seamlessly transfer to the New York State College of Environmental Science and Forestry (ESF) at Syracuse University, Plattsburgh

State University, Brockport State University, and other baccalaureate degree-granting institutions thereby ensuring junior status in baccalaureate degree curriculums. This is ensured with the articulation agreements that were established with these institutions. Students who successfully complete the Environmental and Natural Resources Conservation A.S. program also have the option of pursuing the bachelor of technology in Renewable Resources curriculum at SUNY Morrisville.

Students completing the Environmental and Natural Resources Conservation curriculum will:

- Be well prepared to transfer into baccalaureate degree granting institutions at the junior level in an environmentally related field of study;
- Have a good foundation in the sciences including chemistry and/or physics and the biological sciences;
- Have completed 8 general education pillars (this will position them properly for completing all 10 pillars when they are awarded a baccalaureate degree);
- Have a good foundation in basic environmentally-related course work;
- Develop a critical and unbiased approach to solving environmental problems; and
- Develop organizational skills, collaborative work experience, and sensitivity to an organizational culture.

**Transfer Opportunities:** The Environmental and Natural Resources Conservation major is intended as a foundation program for students wishing to matriculate to other universities to continue their education in specific baccalaureate programs. Transfer articulation agreements exist with a number of SUNY and state institutions to facilitate student planning and transfer.

**Graduation Requirements:** The Environmental and Natural Resources Conservation A.S. program will require a minimum of 60 credit hours of instruction and meet the course requirements listed below (with no less than 30 hours in SUNY Gen Ed Liberal Arts and Sciences) with a minimum 2.0 cumulative GPA. The specific required courses in the program will satisfy the general education requirements in 7 areas or pillars. A physical science requirement is satisfied with 8 credits of chemistry and/or physics. Students lacking high school chemistry will also be required to take CHEM 101-Basic Chemistry for preparation. Mathematics proficiency through Math 103 (Algebra & Trigonometry III) is required. Students must also complete at least 9 credits of NATR/ENSC/ENVT/AGRO/HORT electives.

Admission to advanced study programs at certain universities may require the completion of courses at a higher level than those required for graduation in this program.

**Program Learning Outcomes:** Upon completion of the program, and according to the particular concentration of this major, a successful graduate will be able to:

- Describe the state of the natural resources profession and potential transfer and career opportunities.
- Conduct himself/herself in a manner consistent with an embodied sense of conservation stewardship.
- Deal professionally and ethically with clients, the public, and agency personnel.
- Utilize oral and computer communication skills necessary to interact in the profession.
- Demonstrate advanced knowledge and competency in taxonomy and natural history.
- Demonstrate hands-on experience in natural resource sampling, inventory and measurement techniques.

Apply critical thinking and problem-solving skills in natural resource conservation.

Utilize existing technology, products, and services to maximize work efficiency and success. Practice a collaborative spirit in team-efforts and project coordination.

## CURRICULUM REQUIREMENTS

Required Courses	Credits
BIOL 102	Botany: Form and Function of Seed Plants 3

ENVT 100	Introduction to Environmental Technology	3
NATR 100	Introduction to Forestry & Natural Resources	3
NATR 144	Seminar in Environmental Resources	1
	Technical Electives‡ (as advised)	9
CITA 101 or 110	Computer Applications elective	3
BIOL 120	General Biology I	4
	-or-	
BIOL 260	Principles of Zoology	4
	Chemistry/Physics Elective (as advised) (CHEM 101 excluded)	8
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
COMM 111	Introduction to Speech	3
MATH	*Mathematics (as advised, 103 or higher)	3
	Open Electives (as advised)	6
SUNY Gen Ed Credits		9
<b>TOTAL PROGRAM CREDITS</b>		<b>61</b>

\*Math Proficiency: Proficiency through MATH 103 – College Algebra with Trigonometry

\*\*A student must take 9 credits in 3+ categories from the following list: Social Sciences, American History, Western Civilizations, Foreign Language, the Arts and Other World Civilizations

‡ Technical Elective must be selected from subject areas: AGBS, AGEN, AGSC, BIOL, BSAD, CHEM, CJUS, ENSC, ENVT, HORT, NATR, RENG, RREN

## Pre-Environmental Science and Forestry

Students planning to transfer to State University College of Environmental Science and Forestry (ESF) should develop an individualized course of study with their Environmental and Natural Resources Conservation transfer advisor to choose appropriate technical electives. Transfer articulation guidelines for twenty-two majors at ESF exist. For specific transfer requirements visit: <http://www.esf.edu/admissions/transfer/tags/morrisville.htm>

## EQUINE SCIENCE & MANAGEMENT A.A.S. – CODE #0687

Equine Science and Management is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

The strengths of the Equine Science and Management program are mainly twofold: first in the range of courses, which offer practical experience in handling horses. The program provides the student with the opportunity to concentrate on breeding, training, nutrition, and management specifically with horses, rather than with a generalized group of livestock. The second strength of the program is the quality of the faculty, staff and facilities available to the student. The college has two new 100-foot by 200-foot indoor arenas, an 80-foot by 264-foot indoor riding arena, two 100-foot by 200-foot outdoor arenas, a half-mile racing track, three horse barns, a 34,000 square foot breeding and training facility, two hot walkers, Eurociser, paddocks, and all of the associated equipment and supplies necessary for a suitable educational experience. Additionally, there are more than 250 horses on site.

The SUNY Morrisville Equine Rehabilitation Center (SUNY MorrisvilleERC) facility includes a 22,000 square foot rehabilitation center building with classroom and administrative offices, a large rehabilitation treatment area, and ten stalls. A 31-stall barn for the thoroughbred Racing Program and a 140 by 300 foot indoor riding arena are also located at this facility. Therapeutic modalities available at the Equine Rehabilitation Center include aquatic therapies (underwater treadmill, cold salt water spa therapy, indoor swimming pool), therapeutic ultrasound, laser therapy (Class IIIB), cold compression therapy, solariums, and therapeutic exercises.

SUNY Morrisville employs 14 full-time faculty and staff, with a wide range of professional experience, in the Equine Science program area. The curriculum provides for the development of skills including care and training of horses, riding,

driving, breeding and business and stable management. Students who major in Equine Science have varied objectives. Many intend to pursue a career in some aspect of the horse industry, while others may take technical courses from other areas of study to expand their employment base.

The career option prepares students to directly enter the industry upon graduation or to continue their equine education in one of the options in the bachelor of technology in Equine Science. The general option enables students to experience the horse industry while preparing for an allied field of employment. Both options are very flexible and can be developed based on individual interests and goals.

**Career Opportunities:** Horse breeding, breaking and training, riding instruction, horse sales, stable management. Students will be expected to treat horses with kindness, respect and compassion at all times and ensure the health and well-being of animals in their care.

**Graduation Requirements:** Students in the Equine Science and Management curriculum must complete a minimum of 64 credit hours of course work with a minimum GPA of 2.0, and all of the requirements listed in one of the following two options (Career Option or General Option). Minimum of 20 credit hours in Liberal Arts and Sciences (recommend meeting at least 7 of 10 SUNY General Education Requirements). Math Proficiency: Demonstrated proficiency through MAGN 101 - Elementary Algebra is required for this program.

Students considering advancing to the Equine Science and Management Bachelors of Technology degree should consider the SUNY General Education Requirements described in this catalog when selecting General Education courses during their associate degree program.

Students in the general option who are planning to transfer must select a mix of appropriate equine electives and other electives to prepare them for transfer.

**Program Learning Outcomes:** Upon completion of the program, and according to the particular concentration of this major, a successful graduate will be able to;

Demonstrate safe procedures, sound judgment and critical thinking skills in human and horse interactions when handling on the ground, astride or driving.

Develop and/or recognize proper body position and effective use of seat, leg, hands and/or voice aids for ground-handling, riding or driving.

Conduct the necessary research, analysis, evaluation, and critical thinking skills required of equine management and demonstrate the ability to develop a well organized approach to address common problems related to equine training and management.

Demonstrate an understanding of equine behavior and how it relates to developing trained responses.

Understand the importance of providing a balanced ration and be able to apply principles of nutrition to meet the needs of horses that is commensurate with varied uses and workloads.

Understand the principles and techniques of modern equine reproduction and how utilization of sound breeding management practices can improve breeding efficiency.

Utilize a systematic method of evaluating conformation and observing performance to accurately gauge individual improvement and to make qualified comparisons between horses.

Develop and implement health management practices and skills to recognize signs of lameness and a fundamental understanding of treatment therapies.

Develop a positive, confident outlook and a responsible work ethic that is likely to attract success as an equine professional.

Develop sound ethical principles and judgment when dealing with employers, employees, and clients.

## CURRICULUM REQUIREMENTS

### Career Option Requirements

#### Required Courses

	Credits
AGBS 100	3
Agricultural Economics (equine)	

AGBS 240	Farm Management and Finance	4
AGRO 110	Soil Science	3
	OR	
ENSC 101	Agricultural Science	3
COMP	English (as advised)	6

#### 2 credits toward computer science requirement:

CITA 101	Principles of Computers and Applications	3
	OR	
OFFT 110	Introduction to Spreadsheet Software	1

#### AND a choice of 1 of the following:

OFFT 100	Introduction to Word Processing Software	1
	OR	
OFFT 109	Introduction to Presentation Software	1
ERID 102/104	Western Equitation I Intermediate or Advanced	2
ERID 109/110	Hunt Seat Equitation I Intermediate or Advanced	2
ERID 103/105	Equitation II Western Horsemanship Int/Adv	1
ERID 111/112	Hunt Seat Equitation II Int/Adv	1
ERID 250	Breaking and Training	3
	OR	
ERID 240	Introduction to Training of Hunters and Jumpers	4
ERID 210	English Dressage	2
	OR	
ERID 220	Western Dressage	2
ERID 200	Western Riding	1
ESCI 110	Equine Anatomy and Physiology	3
ESCI 130	Equine and Stable Management	3
ESCI 140	Equine Judging	2
ESCI 150	Farm Practicum I (equine)	2
	And	
ESCI 151	Farm Practicum II (equine)	2
ESCI 210	Equine Nutrition	3
ESCI 235	Fitting and Marketing of the Equine	1
ESCI 305	Equine Reproduction and Breeding Management	3
ESCI 312	Equine Health and Lameness	3

#### Electives (MUST include one of the following)

ERID 255	Intermediate Breaking and Training	4
	OR	
ESCI 170	Draft and Driving Horse Management	2
	OR	
ESCI 225	Equine Artificial Insemination	1
	OR	
ERID 260	Int. Training of Hunters and Jumpers	4

Additional SUNY General Education Credits Required	9
--	---

<b>TOTAL PROGRAM CREDITS</b>	<b>67</b>
------------------------------	-----------

#### Suggested Electives in Career Option

ESCI 313	Laboratory in Equine Health and Lameness	1
AGBS 200	Marketing Agricultural Products	3
AGEN 110	Small Power Equipment	2
AGEN 101	Equipment Care and Maintenance	2
AGEN 102	Equipment Operation (when offered)	2
AGEN 140	Welding	2
AGEN 145	Agricultural Building Systems	3
AGRO 110	Soil Science	3
AGRO 210	Field Crops	3
AGRO 310	Pasture and Management Forages Production	3
BIOL	Biology with lab (as advised)	4
CHEM	Chemistry with lab (as advised)	4
MATH	Mathematics (as advised)	3

ESCI 410	Equine Exercise Physiology	2
ESCI 300	Internship in Equine Science	3
SPPR	Special Projects	

ERID 260	Int. Training of Hunters and Jumpers	4
ESCI 410	Equine Exercise Physiology	2
	Special Projects	3

## CURRICULUM REQUIREMENTS

General Option Requirements		Credits
AGBS 100	Agricultural Economics (equine)	3
AGBS 240	Farm Management and Finance	4
AGRO 110	Soil Science	3
	-or-	
ENSC 101	Agricultural Science	3
2 credits toward computer science requirement:		
CITA 101	Principles of Computers and Applications	3
	-or-	
OFFT 110	Introduction to Spreadsheet Software	1
AND a choice of 1 of the following:		
OFFT 100	Introduction to Word Processing Software	1
	-or-	
OFFT 109	Introduction to Presentation Software	1
ESCI 110	Equine Anatomy and Physiology	3
ESCI 130	Equine and Stable Management	3
ESCI 140	Equine Judging	2
ESCI 150	Farm Practicum I (equine)	2
ESCI 151	Farm Practicum II (equine)	2
ESCI 210	Equine Nutrition	3
ESCI 235	Fitting and Marketing of the Equine	1
ESCI 305	Equine Reproduction and Breeding	
	Management	3
ESCI 312	Equine Health and Lameness	3
Additional SUNY General Education Credits Required		12
Additional General Education Credits		18
<b>TOTAL PROGRAM CREDITS</b>		<b>67</b>

## Suggested Electives in General Option

		Credits
ESCI 313	Laboratory in Equine Health and Lameness	1
AGBS 200	Marketing Agricultural Products	3
AGBS 220	Agricultural Finance	3
AGEN 110	Small Power Equipment	2
AGEN 101	Tractor Care and Maintenance	2
AGEN 102	Equipment Operation (when offered)	2
AGEN 140	Welding	2
AGEN 145	Agricultural Building Systems	3
AGRO 110	Soil Science	3
AGRO 210	Field Crops	3
AGRO 310	Pasture Management and Forages Production	3
BIOL	Biology with lab (as advised)	4
BSAD 225	International Business	3
BSAD 226	International Marketing	3
BSAD 116	Marketing	3
CHEM	Chemistry with lab (as advised)	4
MATH	Mathematics (as advised)	3
ERID 102/104	Western Equitation I Intermediate or Advanced	2
ERID 109/110	Hunt Seat Equitation I Intermediate or Advanced	2
ERID 103/105	Equitation II Western Horsemanship Int/Adv	1
ERID 111/112	Hunt Seat Equitation II Int/Adv	1
ERID 250	Breaking and Training	3
ERID 240	Introduction to Training of Hunters and Jumpers	4
ERID 210	English Dressage	2
ERID 220	Western Dressage	2
ERID 200	Western Riding	1
ERID 255	Intermediate Breaking and Training	4
ESCI 170	Draft and Driving Horse Management	2
ESCI 225	Equine Artificial Insemination	1
OR		

All students should seek advisement concerning the proper sequence of courses related to their area of interest.

## EQUINE RACING MANAGEMENT

### A.A.S. – CODE #0698

Equine Racing Management is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

This program prepares students for work as assistant trainers or grooms at race tracks with an emphasis on harness and thoroughbred racing. It also prepares students for the examination for licensure.

Students enrolled in the thoroughbred racing option will have their riding abilities and weight evaluated if exercise rider or jockey are of primary interest.

Facilities for practical experience include an all-weather half-mile training track, stabling, turnout paddocks, two round pens, an 80-foot by 264-foot indoor arena, and a new 100-foot by 200-foot indoor arena. The college has more than 250 horses on site. During the first two years, five credit hours each semester are concentrated in practical work at the college track. Students continue work on the horses with emphasis placed on racing and on areas such as shoeing, training problems, breaking yearlings, and preparation for the annual sale.

The SUNY Morrisville Equine Rehabilitation Center (SUNY MorrisvilleERC) facility includes a 22,000 square foot rehabilitation center building with classroom and administrative offices, a large rehabilitation treatment area, and ten stalls. A 31-stall barn for the thoroughbred Racing Program and a 140 by 300 foot indoor riding arena are also located at this facility. Therapeutic modalities available at the Equine Rehabilitation Center include aquatic therapies (underwater treadmill, cold salt water spa therapy, indoor swimming pool), therapeutic ultrasound, laser therapy (Class IIIB), cold compression therapy, solariums, and therapeutic exercises.

In addition, horse-related courses such as anatomy and physiology, breeding, nutrition, equine farm management and general horse care (health and lameness) are taken throughout the two-year program. General Education courses in science, math, English, and social science round out the requirements (20 credit hours minimum).

Part of the uniqueness of this program is the summer option where students have the opportunity to compete in actual races.

**Career Opportunities:** Assistant trainer or groom at race tracks, training tracks or on breeding farms. Licensure as a trainer or harness racing driver.

Students will be expected to treat horses with kindness, respect and compassion at all times and ensure the health and well-being of animals in their care.

**Graduation Requirements:** Students in the Equine Racing Management curriculum must complete a minimum of 64 credit hours of course work with a minimum cumulative GPA of 2.0 and all of the requirements listed in the requirements column. Minimum of 20 credit hours in Liberal Arts and Sciences (recommend meeting at least 7 of 10 SUNY General Education Requirements). Proficiency through MAGN 101 – Elementary Algebra is required.

**Program Learning Outcomes:** Upon completion of the program, and according to the particular concentration of this major, a successful graduate will be able to;

Demonstrate safe procedures, sound judgment and critical thinking skills in human and horse interactions when handling on the ground, astride or driving.

Develop and/or recognize proper body position and effective use of seat, leg, hands and/or voice aids for ground-handling, riding or driving.

Conduct the necessary research, analysis, evaluation, and critical thinking skills required of equine management and demonstrate the ability to develop a well organized approach to address common problems related to equine training and management.



Demonstrate an understanding of equine behavior and how it relates to developing trained responses.

Understand the importance of providing a balanced ration and be able to apply principles of nutrition to meet the needs of horses that is commensurate with varied uses and workloads.

Understand the principles and techniques of modern equine reproduction and how utilization of sound breeding management practices can improve breeding efficiency.

Utilize a systematic method of evaluating conformation and observing performance to accurately gauge individual improvement and to make qualified comparisons between horses.

Develop and implement health management practices and skills to recognize signs of lameness and a fundamental understanding of treatment therapies.

Develop a positive, confident outlook and a responsible work ethic that is likely to attract success as an equine professional.

Develop sound ethical principles and judgment when dealing with employers, employees, and clients.

Students considering advancing to the Equine Science and Management Bachelors of Technology degree should consider these general education requirements.

Bachelor of technology students must take one course from each of the following groups:

COMP 101 or COMM 111

COMP 102 or MUSI 102 or PHIL 201 or PHIL 211 or PHIL 311

\*\*HIST 161 or HIST 162 or HIST 182

\*\*HIST 101 or HIST 102 or HIST 103 or HIST 220 or HIST 225

\*\*PSYC 101 or SOCI 101 or ECON 101 or ECON 140 or ANTH 101 or AGBS 225

## CURRICULUM REQUIREMENTS

Required Courses		Credits
AGBS 100	Agricultural Economics (equine)	3
AGBS 240	Farm Management and Finance	4
AGRO 110	Soil Science	3
	-or-	
ENSC 101	Agricultural Science	3
CITA 101	Principles of Computers and Applications	3
	-or-	
OFFT 110	Introduction to Spreadsheet Software	1
	AND (a choice of 1 of the following):	
OFFT 100	Introduction to Word Processing Software	1
	-or-	
OFFT 109	Introduction to Presentation Software	1
COMP	English (as advised)	6
ESCI 110	Equine Anatomy and Physiology	3
ESCI 130	Equine and Stable Management	3
ESCI 210	Equine Nutrition	3
ESCI 235	Fitting and Marketing of the Equine	1
ESCI 305	Equine Reproduction and Breeding	
	Management	3
ESCI 312	Equine Health and Lameness	3
ESTB 100	Care and Training of the Race Horse I	5
ESTB 101	Care and Training of the Race Horse II	5
ESTB 210	Advanced Equine Racing	4
ESTB 220	Equine Racing Capstone	4

Additional General Elective Credits 11

**TOTAL PROGRAM CREDITS 64**

Suggested Electives		Credits
ESCI 225	Artificial Insemination	1
ESCI 313	Laboratory in Equine Health and Lameness	1
AGBS 220	Agricultural Finance	3
AGEN 105	Principles of Farm Machinery	2
AGEN 101	Equipment Care and Maintenance	3

AGEN 130	Agricultural Structures	3
AGRO 110	Soil Science	3
AGRO 210	Field Crops	3
AGRO 310	Pasture Management and Forages Production	3
BIOL	Biology with lab (as advised)	4
BSAD 116	Marketing	3
CHEM	Chemistry with lab (as advised)	4
COMP 111	Introduction to Speech 3	3
COMP 310	Advanced Technical Communications	3
MATH	Mathematics (as advised)	3
PSYC 304	Industrial Organizational Psychology	3

All students should seek advisement concerning the proper sequence of courses related to their area of interest.

## SUMMER PROGRAM

The summer program is designed for those students who wish to gain industry experience to increase their skills and employability potential upon graduation.

To qualify for the summer program a student must receive a minimum of a B grade (3.0) in ESTB 100 and ESTB 101, maintain a cumulative grade point average of at least 2.0, and receive permission of the instructor.

The course in which the student will enroll is:

ESTB 200	Racing	5 credits
----------	--------	-----------

## FOOD SERVICE ADMINISTRATION

### A.A.S. – CODE #0570

Food Service Administration is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

Food Service Administration emphasizes a sequence of management courses which includes food service and hotel operations. In addition, students take food and beverage merchandising as well as several national certification courses. Students also work in The Copper Turret Restaurant operated in the village of Morrisville during the fourth semester. The Copper Turret is a full service tavern and upscale dining facility where the students rotate through positions in the front of the house.

This program has been designed for students who seek entry-level management positions in the Food Service field, or who have the desire to obtain a baccalaureate degree in this area. The program contains state-of-the-art facilities, top-rated instructors, and provides an emphasis on the customer service philosophy in all types of hospitality operations. Students are required to purchase a uniform.

**Career Opportunities:** Entry-level management positions in restaurants, schools, public and private colleges, other noncommercial and private food service organizations including hotels, resorts, casinos, and convention venues.

**Graduation Requirements:** Students graduating from this program must complete a minimum of 62 credit hours earned and maintain at least a 2.0 GPA. Students must also complete at least 20 credit hours in Liberal Arts and Sciences (recommend meeting 7 of 10 SUNY General Education Requirements). Also, a residency requirement of 30 credit hours at SUNY Morrisville should be met.

### Program learning Outcomes:

Students completing the Food Service Administration Curriculum will:

Understand and define basic management theories common to all types of foodservice operations.

Identify and illustrate the basic elements of equipment design and layout in food service facilities.

Possess an extensive business portfolio that displays an up to date resume, cover letter, skill set, work philosophy, career goals and shows extensive work samples.

Demonstrate basic culinary skills and apply those skills in a commercial kitchen operation



- Recognize proper food handling procedures and demonstrate through a national certification exam, a high level of knowledge regarding foodservice safety and sanitation.
- Explain basic concepts involved in marketing and how they can be applied to food service operations to facilitate financial objectives.
- Demonstrate the ability to work in a full-service restaurant setting in positions in both the front of the restaurant, and back of the restaurant.
- Calculate recipe and menu cost, create work schedules, order products, and demonstrate the delivery of exceptional customer service.
- Exhibit a comprehensive working knowledge of restaurant operations management.
- Demonstrate an understanding of purchasing in the hospitality industry by writing food and non-food specifications, applying purchasing practices, interpreting market trends, using new technology applications, and analyzing operational cost control.

CURRICULUM REQUIREMENTS

Required Courses		Credits
FSAD 101	Quantity Food Preparation & Service	3
FSAD 102	Applied Food Service Sanitation	1
FSAD 153	Fundamentals of Hospitality Management	3
FSAD 154	Equipment Selection & Layout	3
FSAD 201	Summer Co-op	2
-or-		
TOUR 251	Cooperative Work Experience	2
FSAD 205	Food & Beverage Merchandise & Management	4
-or-		
CAS 240	Hospitality Sales & Marketing	3
FSAD 255	Food Purchasing & Cost Control	4
FSAD 257	Senior Seminar	1
FSAD 258	Restaurant Management & Operations	6
TOUR 106	Introduction to the Travel/Tourism & Hospitality Industry	3
TOUR 153	Hotel Operations	3
NUTR 108	Nutrition I	3
School Elective (as advised)		3
ACCT 100	Accounting Information & Management Decisions	3
OFFT 110	Introduction to Spreadsheet Software	1
COMP	(as advised)	3
SUNY Ged Ed Credits		17
TOTAL PROGRAM CREDITS		62/63

Seventeen additional Gen Ed credits in at least four general education categories

GAMING & CASINO MANAGEMENT  
A.A.S. – CODE #1361

Gaming and Casino Management is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

Approved by the New York State Education Department, the Gaming and Casino Management degree program provides students with the managerial, technical and operational expertise that is integral to pursuing a career in the casino and entertainment segments of the hospitality industry.

Focusing on the latest technology, the program targets the legal/regulatory issues vital to protecting the integrity of casino gaming operations such as licensing, table game protection, surveillance operations and casino/hotel security. Students will learn about leadership, technology, the need for appropriate security in the casino business, biometrics, the particular functions of the different games, and retail operations in a casino.

The relationship of gaming to the growing tourism and destination industry is also a key component of our program. Using state-of-the-art equipment, students

- receive hands-on experience and the personal instruction necessary to develop the knowledge, skills, marketing and management techniques essential to securing a position in the gaming industry.
- Program Highlights**
- Computer applications are integrated throughout the curriculum to prepare graduates with workplace competencies
  - Live gaming laboratory experiences
  - All students complete an internship
  - Majors participate in visits to casino resorts
- Faculty are members of the Casino Management Association, the New York State Hospitality and Tourism Association, the Council on Hotel, Restaurant, Institutional Education, the American Hotel & Lodging Association, the National Restaurant Association, and the International Food Service Executives' Association.
- Career Opportunities:** Entry-level management positions in the global casino industry including casino operations and management, casino marketing, human resources, security and surveillance, gaming regulations, convention/special event sales, regional tourism development, hotel operations, food, beverage and catering management, as well as transfer opportunities to bachelor's degree programs in Casino Management , Resort and Recreation Service Management and related fields.
- Graduation Requirements:** Students graduating from this program must complete a minimum of 65 credit hours earned and maintain at least a 2.0 GPA. Students must also complete 20 credit hours in Liberal Arts and Sciences (recommend completing 7 of 10 SUNY General Education Requirements) Also, a residency requirement of 30 credit hours at SUNY Morrisville should be met.
- Program Learning Outcomes:**
- Students completing the Gaming and Casino Management Curriculum will:
- Demonstrate a familiarity with the various games found in the casino environment
  - Identify and interpret the rules of the games found in the casino environment
  - Identify the lack of procedure in the gaming environment
  - Understand and define basic management theories common to all types of hospitality operations.
  - Possess an extensive business portfolio that displays an up to date resume, cover letter, skill set, work philosophy, career goals and shows extensive work samples.
  - Analyze the importance of facility layout
  - Review and discuss regulatory compliance issues found in the gaming industry
  - Compare and contrast the differences found in casino surveillance verses casino security
  - Collaborate with team members to conduct research and team projects
  - Demonstrate the use of the technology used in the casino resort

CURRICULUM REQUIREMENTS

Required Courses		Credits
FSAD 100	Global and Ethnic Foods	3
-or-		
FSAD 101	Quantity Foods	3
FSAD 153	Fundamentals of Hospitality Management	3
-or-		
CAS 104	Contemporary Issues in Human Resource Management for Hospitality Industry	3
FSAD 201	Summer Co-op	2
-or-		
TOUR 251	Cooperative Work Experience	2
CAS 240	Hospitality Sales & Marketing	3

FSAD 257	Senior Seminar	1
TOUR 106	Introduction to the Travel/Tourism & Hospitality Industry	3
TOUR 153	Hotel Operations	3
CAS 102	Introduction to Gaming	3
CAS 103	Casino Security	3
BSAD 107	Legal and Regulatory Aspects of the Gaming Industry	3
CAS 230	Technology and Controls in Gaming	3
TOUR 250	Tourism Planning and Development	3
CAS 280	Leadership Development Strategies for Hospitality Industry	3
TOUR 252	Meeting and Convention Services	3
ACCT 100	Accounting Information & Management Decisions	3
OFFT	100 & OFFT 109 & OFFT 110	3
	-or-	
CITA 101	Principles of Computer Applications	3
ECON 100	Intro to Macroeconomics	3
	English (as advised)	3
	Math/Sciences (as advised)	
SUNY Gen Ed Credits		14
<b>TOTAL PROGRAM CREDITS</b>		<b>65</b>

Fourteen additional SUNY General Education courses are needed to fulfill the seven categories requirement

\* Specific courses in the curriculum feature the value-added enhancement of national certification by the American Hotel/Motel Association.

## HEALTH-RELATED STUDIES

### A.S. — CODE #1451

**Program Description:** The Health Related Studies degree will prepare students for transfer into bachelor's degree programs that prepare graduates to work in the health care industry. The curriculum provides a strong foundation in the sciences including courses in the areas of Biology, Anatomy and Physiology and Chemistry. Most transfer institutions have unique entrance requirements (information that should be acquired as soon as possible). The Health Related Studies program offers a degree of flexibility that allows students to satisfy the different entrance requirements at the various transfer institutions.

**Career Opportunities:** The Health-Related Studies program includes course offerings that articulate with higher-division institutions in all of the following career options: nuclear medicine, physical therapy, health information management, health services management, physician assistant, diagnostic medical sonography (ultrasound), occupational therapy, respiratory care, medical technology, cytotechnology, and cardio vascular perfusion, addictions counseling sciences, emergency medical services, mental health technology, occupational and environmental health, and science intensive, pre-professional (Medical, Dental, Chiropractic, Veterinarian).

**Transfer Options:** Local transfer opportunities include CUNY-Hunter College (B.S. in Community Health Education; B.S. in Medical Laboratory Studies; B.S. in Physical Therapy); CUNY – The Sophie Davis School of Biomedical Education (B.S. in Physician Assistant); SUNY Upstate Medical University (B.S. in Cardiovascular Perfusion; B.S./M.P.S. Physical Therapy); B.S. in Respiratory Care; B.S. in Medical Technology; B.S. in Cytotechnology; B.S. in Medical Imaging Sciences; B.S. in Radiation Therapy); SUNY Institute of Technology (B.S. in Health Services Management; B.S. in Health Information); SUNY University at Buffalo (B.S. in Nuclear Medicine Technology; B.S. Medical Technology); College of Mount Saint Vincent (B.S. in Pre-Physical Therapy); D'Youville College (B.S. in Physician Assistant); Rochester Institute of Technology (B.S. in Biochemistry; B.S. in Diagnostic Medical Sonography [Ultrasound]; B.S. in Nuclear Medicine Technology; B.S. in Medical Technology); SUNY Brockport (B.S. in Medical Technology); SUNY Fredonia (B.S. in Medical Technology); SUNY Plattsburgh (B.S. in Medical Technology); SUNY Stony Brook University (B.S. in Clinical Laboratory Sciences; B.S. in Respiratory Care); Allegheny University of Health

Sciences (Cardiovascular Perfusion, Addictions Counseling Services, Clinical Laboratory Sciences, Emergency Medical Services, Mental Health Technology, Occupational and Environmental Health, Physician Assistant)

**Program Learning Outcomes:** Upon successful completion of the program, students will be able to:

Apply selected biologic and chemical concepts to biological problems.

Solve scientific problems using algebra, trigonometry, and statistics.

Display both written and oral communication skills using scientific terminology

Collaborate and cooperate as a group member in a culturally diverse scientific environment.

Use available research tools including, but not limited to, the internet to find answers to scientific questions.

Critically evaluate and integrate scientific literature, principles, and concepts.

Practice safe laboratory techniques, including adherence to all safety rules and regulations.

**Graduation Requirements:** All AS programs require a minimum of 60 credit hours including 30 credit hours from SUNY general education, courses with courses in seven of the ten SUNY general education categories. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher

## CURRICULUM REQUIREMENTS

Required Courses		Credits
BIOL 120*	General Biology I	4
BIOL 121*	General Biology II	4
BIOL 150*	Human Anatomy and Physiology I	4
BIOL 151*	Human Anatomy and Physiology II	4
CHEM 121*	General College Chemistry I	3
CHEM 121L*	Lab for CHEM 121	1
CHEM 122*	General College Chemistry II	3
CHEM 122L*	Lab for CHEM 122	1
SCIENCE	(as advised)	6
COMP 101*	Composition and Research	3
MATH 103*	College Algebra with Trigonometry	3
(or higher in the algebra sequence after placement and consultation with the academic program advisor)		
MATH 141*	Statistics	3
PSYC 101*	Introduction to Psychology	3

Additional General Elective Credits

SUNY Gen Ed Credits

**TOTAL PROGRAM CREDITS**

Nine additional SUNY General Education credits are needed to fulfill the 7 categories requirement

## REQUIRED ADDITIONAL SCIENCE COURSES ELECTIVES (minimum of two courses) TO INCLUDE

BIOL 135	3
BIOL 136	3
BIOL 127	4
BIOL 285	4
BIOL 300	3
BIOL 301	3
BIOL 302	3
BIOL 405	3
CHEM 241	4
CHEM 242	4
PHYS 107	4
PHYS 108	4
PHYS 127	4
PHYS 128	4

HORTICULTURE A.A.S. – CODE #0610

**Program Description:** Students choose between the following options: Horticulture Production, Landscape Management, or General Transfer. Horticulture is a diverse field and students are provided with a wide range of training to prepare for a career in various disciplines. Some choose to enter the industry after two years. Others transfer to upper division horticulture and landscape programs at colleges like Cornell, SUNY-ESF, and many others. Horticulture is one of the largest industries in the state and offers many professional options.

**Career Opportunities:** Greenhouse operator/grower, floral designer, flower shop manager, wholesale florist, farm and garden store owner or manager, nursery operator/grower, landscape contractor, salesperson of horticultural products or greenhouse equipment, maintenance supervisor of public grounds, public gardener, golf course superintendent, representative for wholesale growers and equipment suppliers, landscape/lawn technician, and more.

**Program Learning Outcomes:** Upon completion of the program, and according to the particular concentration of this major, a successful graduate will be able to demonstrate:

- Knowledge of green industry practices such as plant materials and their landscape uses, plant physiology, plant protection, and pesticide use & handling;
- Problem-solving skills in the fields of landscape management and greenhouse production.

**Graduation Credit Requirements:** 64 credit hours including 20 credit hours, in 5 categories (one category must be Basic Communications), of General Education (GenEd) courses. The program requirements are outlined in the following concentration requirement lists. Overall GPA of 2.00 or higher.

**Math Proficiency:** Demonstrated proficiency through MATH 102 Intermediate Algebra with Trigonometry is required for the General Transfer option.

Horticulture Production

Prepares students for practical, real-life situations in areas such as crop production, greenhouse operations, and integrated pest management. Students have opportunities to participate in income-generating and community service projects.

CURRICULUM REQUIREMENTS

Required Courses		Credits
AGRO 110	Soil Science (Natural Science GedEd) or as advised	3
BIOL 102	Botany (Natural Science GenEd)	3
BSAD 116	Business Organization and Management	3
ENSC 106	Pesticide Use and Handling	2
ENSC 107	Integrated Pest Management	1
HORT 101	Plant Materials	3
HORT 108	Herbaceous Plant Materials	2
HORT 110	Horticulture Practices I or as advised	2
HORT 200	Greenhouse Management	3
HORT 201	Plant Propagation (Natural Science GenEd)	3
HORT 202	Greenhouse Production	3
HORT 206	Sustainable Landscapes	3
HORT 210	Horticulture Practices II or as advised	2
HORT 241	Plant Protection (Natural Science GenEd)	3
	ACCT, BSAD 102 or 221, MAGN or MATH as advised	3
	Basic Communications GenEd *	3
Additional General Elective Credits		13
SUNY Gen Ed Credits		9
TOTAL PROGRAM CREDITS		64

Additional GenEds credits from three additional categories: Arts, American History, Humanities, Other World Civilization, Social Science, Western Civilization, Foreign Language \*

Landscape Management

Provides students with the foundational knowledge, hands-on skills, and experience that enable them to successfully pursue a career in the landscape industry.

CURRICULUM REQUIREMENTS

Required Courses		Credits
BIOL 102	Botany (Natural Science GenEd)	3
BSAD 116	Business Organization and Management	3
ENSC 106	Pesticide Use and Handling or as advised	2
HORT 101	Plant Materials	3
HORT 103	Landscape Planning and Design I	3
HORT 105	Landscape Planning and Design II	3
HORT 206	Sustainable Landscapes	3
ENSC 107	Integrated Pest Management	1
HORT 108	Herbaceous Plant Materials	2
HORT 109	Landscape and Turf Management	3
HORT 110	Horticulture Practices I or as advised	2
OR		
HORT 210	Horticulture Practices II or as advised	2
HORT 201	Plant Propagation (Natural Science GenEd) *	3
HORT 240	LandCADD	3
HORT 241	Plant Protection (Natural Science GenEd) *	3
NATR 160	Principles of Arboriculture (Natural Science GenEd) *	2
NATR 161	Practices of Arboriculture *	1
ACCT, BSAD 102 or 221, MAGN, or MATH as advised *		3
Basic Communication GenEd *		3
Additional General Elective Credits *		9
SUNY Gen Ed Credits *		9
TOTAL PROGRAM CREDITS		64

Nine additional GenEds credits from two additional categories: Arts, American History, Humanities, Other World Civilization, Social Science, Western Civilization  
\* Choice of course based on a consultation with the student's advisor

General Transfer

A science-based course of study for transfer to a four year program.

CURRICULUM REQUIREMENTS

Required Courses		Credits
BIOL 102	Botany, Form and Function of Seed Plants	3
CHEM 121	General Chemistry I	3
CHEM 121L	Lab for CHEM 121	1
CHEM 122	General Chemistry II	3
CHEM 122L	Lab for CHEM 122	1
COMP 101	Composition and Research	3
COMP 102	Writing about Literature	3
COMP 111	Introduction to Speech	3
ENSC 107	Integrated Pest Management	1
HORT 101	Plant Materials	3
HORT 110	Horticulture Practices 1 *	2
HORT 210	Horticulture Practices II *	2
HORT 241	Plant Protection	3
MATH	As advised to meet SUNY GenEd	6
Additional General Elective Credits *		21
SUNY Gen Ed Credits *		6
TOTAL PROGRAM CREDITS		64

Additional GenEds credits from at least one category: Arts, American History, Foreign Language, Other World Civilization, Social Science, Western Civilization  
\* Choice of course based on a consultation with the student's advisor

## HUMAN PERFORMANCE & HEALTH PROMOTION

### A.S. – CODE #1450

**Program Description:** The Human Performance and Health Promotion Associates Degree will prepare students to find employment in general fitness positions in wellness facilities and general fitness facilities. The curriculum includes a strong foundation in math and science, along with fitness-related classes in general fitness and wellness and exercise physiology. The program is unique in its inclusion of two exercise physiology classes to ensure the complete and comprehensive understanding, by the student, of the body's response to exercise. Students are taught to handle a diverse set of exercise and fitness situations to strengthen their confidence and marketability in the field. Students are well equipped for immediate entry into the workforce, but are especially prepared for transfer to other programs in the following areas: Human Performance and Health Promotion, B.S. at SUNY Morrisville, Exercise Physiology, Physical Education, Kinesiology, Athletic Training, and Health Education.

**Career Opportunities:** The Human Performance and Health Promotion program prepares graduates for employment in fitness centers, recreational facilities, or corporate wellness programs and for certification from the American College of Sports Medicine.

**Transfer Options:** The Human Performance and Health Promotion program prepares graduates for transfer to upper division programs in sports medicine, physical education, athletic training, or community health education. Local transfer opportunities include SUNY Morrisville (B.S. Human Performance and Health Promotion); East Stroudsburg University (Physical Education); Ithaca College (B.A. in Exercise Science or Fitness & Cardiac Rehabilitation); SUNY Brockport (Physical Education and Sport major options include Teacher Certification, Sport Management, Exercise Physiology and Athletic Training); SUNY Cortland (Adult Physical Fitness, Exercise Science); SUNY Institute of Technology (Health Services Management); Slippery Rock University (Physical Education); Springfield College (Health/Fitness); Syracuse University (Physical Education; Health & Exercise Science)

**Program Learning Outcomes:** Upon successful completion of the program, students will be able to:

Describe the role of physical activity in the prevention of and treatment of five common chronic diseases: heart disease, diabetes, cancer, osteoporosis, and metabolic syndrome.

Describe the chronic and acute responses of the body to physical activity.

Distinguish between aerobic and anaerobic physical exercise and recommend activities to specifically test or to train either system.

Model proper attire and behavior in an exercise-related profession

Accurately assess a client's heart rate and blood pressure at rest and during physical activity.

**Graduation Requirements:** All AS programs require a minimum of 60 credit hours including 30 credit hours from SUNY general education, courses with courses in seven of the ten SUNY general education categories. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
HPHP 100	Introduction to Wellness and Fitness	4
HPHP 101	Fieldwork in HPHP (45 hrs)	1
HPHP 200	Exercise Physiology I	4
HPHP 201	Exercise Physiology II	4
BIOL 120*	General Biology I	4
BIOL 150*	Human Anatomy and Physiology I	4
BIOL 151*	Human Anatomy and Physiology II	4
NUTR 110	Nutrition I	3
PHYS 107*	Introductory Physics I	4

COMP 101*	Composition and Research	3
COMM 111*	Introduction to Speech	3
MATH 103*	College Algebra with Trigonometry	3
(or higher in the algebra sequence after placement and in consultation with the academic program advisor)		
MAST 100	CPR for Health Professionals	1
SOCI 250*	Social Gerontology	3
PSYC 101*	Introduction to Psychology	3
MATH 141*	Statistics	3
PHIL 201*	Introduction to Philosophy	3
Additional General Elective Credits		6
<b>TOTAL PROGRAM CREDITS</b>		<b>60</b>

\*Courses on the SUNY General Education list

1 MATH, BC, HUMN, NAT SCI and SS categories are fulfilled in the required courses

Two additional SUNY General Education courses are needed to fulfill the 7 categories requirement

## HUMAN SERVICES

### A.A.S. – CODE #0604

The Human Services program is available only at the Norwich Campus. The program is designed to prepare students for employment as Human Services professionals.

The Human Services program has been designed to meet the needs of students interested in immediate employment while still keeping the transfer option open for those who wish to pursue further education following completion of the A.A.S. degree. The curriculum gives considerable attention to self-exploration, continued personal growth, and lifelong learning. Students will develop a "theory to practice" approach to prepare for entry level employment with individuals, families, groups, and communities in a range of human service organizations. The program offers students the opportunity to explore a variety of professional focus areas within human services through practical field placements.

**Program Accreditation:** None

**Career Opportunities:** Employment opportunities abound with local and regional employers including: Opportunities for Chenango, Chenango County Department of Social Services, Catholic Charities, Area Agencies for the Aging, Springbrook, Pathfinder Village, and many other health and human services agencies statewide.

**Transfer Opportunities:** Although this program is not designed as a transfer program, conversations with representatives of area institutions suggest that graduates of the Human Services program are likely to receive favorable consideration for admission to bachelor degree programs. Norwich Campus students often report feeling well prepared to continue their education beyond their associate degree studies. In fact, many students have successfully completed a bachelor degree and graduate study following their studies at Norwich. Binghamton University, SUNY Oneonta, and Cortland are the largest "receiving" institutions for Norwich Campus graduates due to their proximity.

Students who have not met these requirements must pass prerequisite courses before being admitted to the program.

**Graduation Requirements:** A minimum of 64 credits of required coursework, a GPA of 2.0 or higher, and a grade of C or better in Practicum/Field Experience.

**Program Learning Outcomes:**

Upon successful completion of this degree program, students will be able to:

Recount historical context and current trends of the human service profession (Council for Standards in Human Service Education - CSHSE Standard 11, 13).

Evaluate skills and strategies that influence change (CSHSE Standard 13, 14).

Integrate human service competency skills and theory into the helping



process (CSHSE Standard 12, 13).

Analyze personal styles, attributes, values, ethics, biases, and prejudices (CSHSE Standard 20).

Demonstrate understanding of interpersonal skills necessary to effective helping (CSHSE Standard 17).

Develop a plan of action and implementation techniques with the client (CSHSE Standard 14, 16).

Monitor and assess effectiveness of interventions (CSHSE Standard 14, 16).

Exhibit professionalism in relation to the values and ethics of Council for Standards in Human Service Education (CSHSE Standard 19).

Recognize the impact of biological, psychological, and social forces on human behavior and the impact these forces have on implementing change (CSHSE Standard 12).

Demonstrate an understanding of diversity and cultural influences (CSHSE Standard 12).

Illustrate skills associated with the collection and dissemination of information including issues of confidentiality (CSHSE Standard 15).

Display recognition of organizational theories and administrative aspects of human service delivery (CSHSE Standard 18).

## CURRICULUM REQUIREMENTS

Required Courses		Credits
HUMS 100	Careers in the Helping Profession	1
HUMS 101	Introduction to Human Services	3
HUMS 200	Helping Process & Crisis Intervention	3
HUMS 141	Internship in Human Service I	1
HUMS 142	Internship in Human Service II	1
HUMS 143	Internship in Human Service III	1
HUMS 201	Counseling & Case Management	3
HUMS 202	Management & Administration of Humans Services	3
HUMS 250	Human Service Practicum	3
COMM 111	Introduction to Speech	3
PSYC 101	Introduction to Psychology	3
SOCI 101	Introduction to Sociology	3
PSYC 225	Psychology of Personal Adjustment	3
PSYC 251	Abnormal Psychology	3
PSYC/SOCI	Electives (as advised)	6
CITA 101	Principles of Computers and Applications	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
MATH 102	Intermediate Algebra with Trigonometry	3
BIOL 105	Human Biology with Lab	4
HIST	U.S. History, World History, or European History	3
Additional General Elective Credits		5
<b>TOTAL PROGRAM CREDITS</b>		<b>64</b>

## INDIVIDUAL STUDIES A.S.

### A.A. A.A.S. – CODE #0688

This program is also offered at the Norwich Campus. Individual Studies is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

The Individual Studies degree program provides flexible educational opportunities to students who are uncertain of their academic major and career goals or who have unique educational goals. Students are provided with academic advisement and counseling to explore various academic and career options. Students may eventually transfer into a specific academic program or they may graduate with an Individual Studies degree.

Students enrolled in the Individual Studies program may take elective courses

from other academic programs on campus. Students must also fulfill the general requirements for graduation in the humanities, mathematics, science and social science.

## A.S. DEGREE PROGRAM

**Graduation Requirements:** Minimum 64 credit hours; minimum 2.0 GPA; 30 credit hours of SUNY General Education credits as listed below, including credits in seven of the ten SUNY General Education categories, and 34 credit hours of general electives.

### Program Learning Outcomes:

Upon leaving this program, the student will:

Have identified their educational and career goals.

Have transferred to the academic program of their choice or have graduated with an ISP degree.

## CURRICULUM REQUIREMENTS

Required Courses*	Credits
COMP 101	Composition and Research
COMP 102	Writing About Literature
MATH	(as advised)
	3

Two courses (in any combination) from the SUNY General Education Categories listed below:

American History  
Other World Civilization  
Social Science  
Western Civilization

One course from any of the SUNY General Education categories listed below:

American History  
The Arts  
Basic Communication  
Foreign Language  
Humanities  
Other World Civilization  
Social Science  
Western Civilization

Three courses from Natural Science and/or Mathematics (as advised)

Additional SUNY General Education Credits  
Additional General Elective Credits  
**TOTAL PROGRAM CREDITS**

\*Students completing an AS must complete at least three credits from seven out of the ten SUNY General Education categories

## A.A. DEGREE PROGRAM

**Admission Requirements:** Minimum high school average in the C to C+ range. Desired: completion of 1 unit of defined math and 1 unit of science.

**Graduation Requirements:** Minimum 64 credit hours; minimum 2.0 GPA; 48 credit hours of SUNY General Education and Liberal Arts and Sciences (LAS) credits as listed below, including credits in seven of the ten SUNY General Education categories, and 16 credit hours of general electives.

### Program Learning Outcomes:

Upon leaving this program, the student will:

Have identified their educational and career goals.

Have transferred to the academic program of their choice or have graduated with an ISP degree.



**CURRICULUM REQUIREMENTS****Required Courses\***

		Credits
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
MATH	(as advised)	3

Two courses (in any combination) from the SUNY General Education categories listed below: 6

The Arts  
Basic Communication  
Foreign Language  
Humanities

Three courses (in any combination) from the SUNY General Education categories listed below: 9

American History  
Other World Civilization  
Social Science  
Western Civilization

Two courses from Natural Science and/or Mathematics (as advised) 6  
Additional 18 credits from any SUNY General Education category or Liberal Arts and Sciences (LAS) elective: 18

Additional General Elective Credits 16  
**TOTAL PROGRAM CREDITS 64**

\*Students completing an AA must complete at least three credits from seven out of the ten SUNY General Education categories

**A.A.S. DEGREE PROGRAM**

**Admission Requirements:** Required: minimum high school average in the C to C+ range. Desired: completion of unit of defined math and 1 unit of science.

**Graduation Requirements:** Minimum 64 credit hours; Minimum 2.0 GPA; 21 credit hours of SUNY General Education and Liberal Arts and Sciences (LAS) credits as listed below, and 34 credit hours of general electives.

**Program Learning Outcomes:** Upon leaving this program, the student will:

Have identified their educational and career goals.

Have transferred to the academic program of their choice or have graduated with an ISP degree.

**CURRICULUM REQUIREMENTS****Required Courses**

		Credits
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3

Two courses (in any combination) from the SUNY General Education categories listed below: 6

American History  
Other World Civilization  
Social Science  
Western Civilization

Two courses from Natural Science and/or Mathematics (as advised) 6  
One course from any SUNY General Education category or a Liberal Arts and Science (LAS) elective 3

Additional General Elective Credits 43  
**TOTAL PROGRAM CREDITS 64**

**JOURNALISM STUDIES****A.A. – CODE #2092**

Journalism Studies is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

The Journalism Studies program is designed for students to begin their education in many different fields related to public communication. The vast majority of graduates transfer to four-year programs, either at Morrisville in Journalism & Communication for Online Media (JCOM), or other institutions in programs of communication, journalism, advertising, broadcasting, public relations or other related fields.

This program places a strong emphasis on improving a student's skills as a writer. It is writing that is the cornerstone for success in any public communication field, and students will find their own styles as writers within a system that allows for use of complex concepts and ideas in terms an audience will understand.

At the same time, the associate of arts degree program in Journalism Studies allows students to explore many fields related to public communication. Production labs are designed to give hands-on experience in journalism, broadcasting, Web content production, desktop publishing, and digital still and video photography.

**Transfer:** B average in college-level writing courses.

**Transfer/ Career Opportunities:** Transfer to a bachelor degree program for preparation to enter careers as reporters, photographers, copywriters and editorial staff. Other careers include advertising, public relations, industrial publications, newspapers, commercial radio and television broadcast content production, Internet content production, and Internet broadcasting, technical writing, and graphic communications.

**Graduation Requirements:** Students must complete a minimum of 64 semester hours with a 2.0 or greater GPA. Liberal Arts and Science Local Distribution Requirement; Minimum 12-18 semester hours of Humanities, minimum 12-18 semester hours of Social Science, minimum 9 semester hours of Math and/or Science. Students must complete 24 credit hours of SUNY General Education courses.

**CURRICULUM REQUIREMENTS****Required Courses**

		Credits
JOUR 101	Introduction to Mass Communication	3
JOUR 111	News Writing and Editing	3
JOUR 112	Advanced News Writing and Reporting	3
	-or-	
JOUR 126	Broadcast Writing	3
JOUR 185	Production Lab I	1
JOUR 186	Production Lab II	1
JOUR 214	Specialized Writing	3
	-or-	
JOUR 280	Broadcast Management, News & Production	3
JOUR 285	Production Lab III	1
	-or-	
JOUR 287	WCVM	1
JOUR 286	Production Lab IV	1
JOUR 121	Photography	3
	-or-	
JOUR 220	Mass Media & Society	3
	-or-	
JOUR 272	Public Relations and Publicity Management	3
	-or-	
JOUR 280	Broadcast Management, News, & Promotion	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Liberal Arts Electives (as advised)	9
	Humanities/Social Science Electives (as advised)	9
MATH/SCI	Math or Science (as advised)	3

**Required SUNY General Education Courses**

	Credits
Gen. Education Requirement in American History	3
Gen. Education Requirement in Social Sciences	3

Gen. Education Requirement in Other	
World Civ	3
General Education Requirement in Western Civ	3
Gen. Education Requirement in Mathematics	3
Gen. Education Requirement in Natural	
Sciences	3

**TOTAL PROGRAM CREDITS** 64

## LANDSCAPE ARCHITECTURAL STUDIES - A.S. – CODE #1600

**Program Description:** The mission of this program is to offer students a solid foundation in the study of landscape architecture design, preparing them for higher levels of study, and propelling them further into the requirements of a successful career so they can achieve meaningful personal and professional lives. The primary goal of the Landscape Architectural Studies program is to meet the needs of students planning to continue their education in a Bachelor of Landscape Architecture (BLA) program or related discipline. A secondary goal is to provide students with both the academic knowledge and hands-on skills necessary for entry-level employment in a variety of fields within the landscape industry and other related fields. Quality as it relates to the program is defined by the demonstration of problem-solving skills expressed with sensitivity to natural and built environments and to visual aesthetics. This rigorous program offers students a solid foundation in landscape design and horticulture. The core curriculum is a four-semester design sequence that is supplemented with courses in the humanities, the natural and social sciences, written and oral communication, and computer technology.

*\*This program will not accept students after fall 2018*

**Career Opportunities:** Upon successful completion of this program, students can seek entry-level employment in fields such as landscape design, landscape development, landscape horticulture, parks management, recreational planning, and environmental design.

**Transfer Opportunities:** Graduates of this program have excellent opportunities for transfer to in-state and national programs offering the Bachelor of Landscape Architecture degree.

**Program Learning Outcomes:** Successful graduates of this program meet or exceed the standard in the following performance criteria:

### KNOWLEDGE

**Design Vocabulary:** use appropriate design vocabulary in written and oral presentations.

**Design Elements & Principles:** apply design principles and elements in design solutions.

**Design Process:** engage in the various stages of the design process and exhibit an evolution of design thinking.

### SKILLS

**Creative Problem-solving:** develop imaginative and functional solutions in design programming, concept & form development, and landscape planning.

**Graphic Communication:** depict ideas and design solutions using effective 2-d graphic media in the drafting and rendering of illustrative plans, section elevations, freehand sketches, and perspectives.

**Model Craftsmanship:** construct 3-d models using appropriate scale, techniques, and materials.

**Computer Assisted Drafting & Design:** use computer technology such as AutoCAD and Google Sketch Up to depict designs and models.

**Project & Time Management:** plan and organize project requirements; collaborate effectively in team projects; meet project deadlines.

### VALUES

**Sustainable principles:** apply the principles of landscape sustainability as they relate to energy and water conservation, pollution control, and environmental benefits.

**Sustainable practices:** select native plant species where appropriate; choose hardscape materials with a regional fit; protect and create wildlife habitat; and reduce water runoff.

**Graduation Requirements:** All AS programs require a minimum of 60 credit hours including 30 credit hours from SUNY general education courses, with courses in seven of the ten SUNY general education categories. To fulfill these requirements along with required courses for this program 64 credits in total must be completed. These requirements are fulfilled in the following list for this program.

**GPA:** Overall GPA of 2.00 or higher.

### CURRICULUM REQUIREMENTS

Required Courses	Credits
HORT 101 Plant Materials	3
HORT 103 Landscape Planning & Design I	3
HORT 105 Landscape Planning & Design II	3
HORT 109 Landscape & Turf Management	3
HORT 206 Sustainable Landscapes	3
HORT 240 LANDCADD	3
HORT Electives	6
Additional General Elective Credits	10
SUNY Gen Ed Credits	30
<b>TOTAL PROGRAM CREDITS</b>	<b>64</b>

\*Proficiency through MATH 103 & COMP 102 is recommended for transfer.

## LANDSCAPE DESIGN & MANAGEMENT - A.S. – CODE # 2910

**Program Description:** The mission of this program is to provide students with a solid foundation in the study of landscape design and management, to prepare them for higher levels of study, and to propel them toward a successful career where they can achieve meaningful personal and professional lives. Quality as it relates to the program is defined by the demonstration of problem-solving skills expressed with sensitivity to natural and built environments and to visual aesthetics. The curriculum is both rigorous and diverse as it includes course requirements in design, horticulture, sustainability, environmental science, and natural resources. In order to qualify our graduates for entry into the landscape industry and other related fields, the program engages students in applied learning experiences gained outside the classroom and during summer internships.

\*Enrollment in this program will not begin until Spring 2019.

**Career Opportunities:** Upon successful completion of this program, students can seek entry-level employment in fields such as landscape design, landscape contracting, landscape horticulture, parks & estate management, recreational planning, and environmental design.

**Transfer Opportunities:** Graduates of this program have excellent opportunities to continue their education in a bachelor program of Landscape Architecture, Horticulture Business Management, or any related discipline.

**Program Learning Outcomes:** Successful graduates of this program meet or exceed the standard in the following performance criteria:

### KNOWLEDGE

- Design Vocabulary: use appropriate design vocabulary in written and oral presentations.
- Design Elements & Principles: apply design principles and elements in design solutions.
- Design Process: engage in the stages of the design process with an evolution of design thinking.

### SKILLS

- Creative Problem-solving: develop imaginative and functional solutions

in design programming, concept & form development, and landscape management.

- Graphic Communication: depict ideas and design solutions using effective 2-d graphic media in the drafting and rendering of illustrative plans, section elevations, freehand sketches, and perspectives.
- Project & Time Management: plan and organize project requirements; collaborate effectively in team projects; meet project deadlines.

### VALUES

- Sustainable principles: demonstrate knowledge of landscape sustainability principles as they relate to energy and water conservation, pollution control, and environmental benefits.
- Sustainable practices: select native plant species where appropriate; choose landscape materials with a regional fit; protect and create wildlife habitat; and reduce water runoff.

**Graduation Requirements:** All AS programs require a minimum of 60 credit hours including 30 credit hours from SUNY general education courses, with courses in seven of the ten SUNY general education categories. To fulfill these requirements along with required courses for this program 64 credits in total must be completed. These requirements are fulfilled in the following list for this program.

- GPA: Overall GPA of 2.00 or higher.

Required Courses		28 credits
HORT 101	Plant Materials	3
HORT 103	Landscape Planning & Design I	3
HORT 105	Landscape Planning & Design II	3
HORT 109	Landscape & Turf Management	3
HORT 206	Sustainable Landscapes	3
HORT 240	LANDCADD	3
HORT	Electives (as advised)	4
ENSC 106	Pesticide Use and Handling	2
ENSC 107	Integrated Pest Management	1
NATR 160	Principles of Arboriculture (GER NS)	2
NATR	161 Practices of Arboriculture	1

Gen Ed (as advised)\* min. 30 credits

Required Gen Ed	
SUNY GER MATH	3
SUNY GER Basic Communication	3
SUNY GER Natural Science	
BIOL 102 Botan	3
Free Electives	6
Total Program Credits	64

\*Proficiency through MATH 103 & COMP 102 is recommended for transfer.

## LIBERAL ARTS & SCIENCES: HUMANITIES & SOCIAL SCIENCE A.A. – CODE #1120

This program is also offered at the Norwich Campus.

This is a university-parallel program that gives the student a solid foundation in the Liberal Arts and Sciences similar to the first two years of the curriculum at a four-year liberal arts college or university. It provides a basis for further study leading to a bachelor degree in a variety of liberal arts areas, among them: psychology, sociology, anthropology, education, human services, English, history, philosophy, communication and the arts.

**Career Opportunities:** Primarily a degree that prepares students for transfer to a bachelor degree program, the associate in arts could provide career opportunities in business or social service fields.

**Transfer Opportunities:** Most students, on finishing the associate in arts degree,

opt to apply to a bachelor-degree program at SUNY Morrisville or transfer to such a program in other institutions in the SUNY and CUNY systems or to private schools in the northeast and throughout the United States.

### Graduation Requirements:

#### A.A. DEGREE PROGRAM

Students enrolled in the Associate in Arts (A.A.) degree program are required to complete a minimum of 45 semester hours of liberal arts courses, of which a minimum of 18 credits must be in the humanities, a minimum of 18 credits must be in the social sciences, and a minimum of 9 credits must be in math or science. Students need a total of 60 credit hours with a minimum GPA of 2.0 to complete this degree. The A.A. degree program is part of the SUNY-guaranteed admission program to four-year, state-operated campuses.

#### SUNY General Education Requirements:

Students completing this degree as outlined below will have completed all SUNY General Education requirements. SUNY Morrisville courses that meet SUNY General Education requirements are listed in the academic information area of this catalog and are identified in the course description area of this catalog. Several requirements in the degree program are met by selecting the appropriate course(s) from these lists.

#### Program Learning Outcomes:

On successful completion of the program, students will be able to:

- Think critically, and utilize information to support reasoning in writing.
- Communicate ideas effectively orally.
- Recognize a variety of literary and artistic forms of expression.
- Develop a foundation of ethical awareness in academic life.
- Give concrete examples of a major theme across time and/or cultures.
- Differentiate institutions, social groups, and cultures and recognize how diversity and change in the human experience contributes to identities.

#### Curriculum Requirements (\*designates courses from the appropriate General Education area)

Required Humanities Courses		(18 Credits)
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
COMM 111	Introduction to Speech	3
One course in Foreign Languages* or the Arts*		3
One 200-level or above LTTR course		3
One 200-level or above course in: The Arts*, Basic Communications*, Foreign Languages*, or Humanities*		3

Required Social Science Courses		(18 Credits)
One 100-level course in American History*		3
One 100-level course in Western Civilization*		3
One 100-level course in Other World Civilization*		3
One 100-level course in Social Science*		3
Two 200-level or above courses in: American History*, Other World Civilizations*, Social Science*, or Western Civilization*		6

Required Mathematics and Natural Science Courses		(9 Credits)
One course in Natural Science, with a lab*		3
One course in Mathematics (min, MATH 102 or MATH 123)*		3
One course in Mathematics* or Natural Sciences*		3

**Additional Requirements:** A total of 60 credits are required for the A.A. degree. Credits beyond the 45 credit hours required above may be from any discipline, including the Liberal Arts.

## LIBERAL ARTS & SCIENCES: MATHEMATICS & SCIENCES A.S. – CODE #0645

**Program Description:** This associate in science degree program is intended for students interested in pursuing career opportunities in Biology or transfer to a baccalaureate degree program.

The A.S. degree program provides students with a solid background in biology, chemistry and mathematics. Students may transfer directly into four-year baccalaureate degree programs such as medical specialties, teaching, marine biology, biotechnology and environmental science. In addition to excellent transfer options, the Biology program enables students to seek employment in a variety of laboratory-based occupations.

Students can decide after their first semester which biological science program suits them best: Liberal Arts and Sciences: Mathematics and Science- Biology Option, or Health-Related Studies.

**Career Opportunities:** In addition to excellent transfer options, the Biology program enables students to find opportunities in research facilities, environmental and analytical labs.

**Transfer Options:** Students may transfer directly into four-year baccalaureate degree programs such as medical specialties, teaching, marine biology, biotechnology and environmental science. A bachelor's degree or advanced degree will allow a student to go into pure research, industrial applications, research and development, or a management career in the technical industries. There are also opportunities for teaching, and a student can satisfy requirements for entrance into a pre-law, pre-med, or pre-dental program.

Local transfer opportunities include Cornell University (B.S. in Biology and Society; B.S. in Biological Sciences, B.S. in Nutritional Sciences); Alfred University (B.S. in Molecular Life Sciences); SUNY Oneonta (B.S. in Biology, B.S. in Secondary Education, B.S. in Biology with Ecology or Field Biology); SUNY Plattsburgh (B.S. in Biology).

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

Identify the components of cells and their function.

Articulate the unified theory of evolution and how it explains the similarities and diversity of living things.

Properly apply morphologic criteria to accurately identify and classify prokaryotic life.

Properly apply morphologic criteria to accurately identify and classify eukaryotic life.

Apply the principles of chemistry, specifically organic chemistry, to the biological sciences.

Apply the principles of mathematics, specifically calculus, to the biological sciences.

Demonstrate the proper use of instruments and laboratory techniques used in biological research.

Collaborate and cooperate on a team (performing biological experiments) that reflects the diversity of the SUNY Morrisville student body.

Critically evaluate, integrate and apply scientific literature, principles and concepts

**Graduation Requirements:** All AS programs require a minimum of 60 credit hours including 30 credit hours from SUNY general education, courses with courses in seven of the ten SUNY general education categories. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher

### CURRICULUM REQUIREMENTS

Required Courses		Credits
BIOL 120*	General Biology I	4
BIOL 121*	General Biology II	4
BIOL 150*	Human Anatomy and Physiology I	4
BIOL 151*	Human Anatomy and Physiology II	4
BIOL 260*	Principles of Zoology	4
BIOL 285*	Microbiology I	4
CHEM 121*	General College Chemistry I	3
CHEM 121L*	Lab for CHEM 121	1
CHEM 122*	General College Chemistry II	3
CHEM 122L*	Lab for CHEM 122	1
CHEM 241*	Organic Chemistry I	3
CHEM 241L*	Lab for CHEM 241	1
CHEM 242*	Organic Chemistry II	3
CHEM 242L*	Lab for CHEM 242	1
COMP 101*	Composition and Research	3
MATH 151*	General Calculus A	3
<b>REQUIRED COURSE CREDITS</b>		<b>46</b>
SUNY GENERAL EDUCATION CREDITS*1		12
GENERAL ELECTIVE CREDITS*3		2
ELECTIVE COURSE CREDITS NEEDED		14
<b>TOTAL PROGRAM CREDITS</b>		<b>60</b>

\*Courses on the SUNY General Education list

\*1 MATH, BC and NAT SCI categories are fulfilled in the required courses

Four additional SUNY General Education courses are needed to fulfill the 7 categories requirement

\*3 two additional credits are needed to fulfill the 60 credit requirement for an AS program

### RECOMMENDED ELECTIVES TO INCLUDE:

BIOL 300	2
BIOL 405	3
CHEM 361	3
CITA 101	3
COMP 112	3
ENVT 100	3
PHYS 127	4
PHYS 128	4

## LIBERAL ARTS & SCIENCES: TEACHER EDUCATION TRANSFER—CHILDHOOD, EARLY CHILDHOOD & ADOLESCENCE A.S., A.A. – CODE #1802, 1803, 1804

The Teacher Education Transfer program is designed to help students explore their interest in a career in teaching at the elementary or secondary levels. Students have the opportunity to become familiar with current issues and employment opportunities in this field and to do forty hours of guided fieldwork in area schools beginning in their first semester in the program.

Students choose one of three programs, depending on the grade level of the students they will eventually become certified to teach: Early Childhood (birth through grade 2), Childhood (Grades 1-6), or Adolescence (Grades 7-12).

Students in these degree programs also have a concentration. SUNY Morrisville offers six concentrations: English, History (Early Childhood/Childhood), Social Studies (Adolescence), (each leading to the Associate in Arts degree); Math, Biology, Chemistry (each leading to the Associate in Science degree).

### Admissions Requirements:

#### Biology Concentration

Required: minimum high school average of B- (at least a 79), two years of high



school math (through New York state Math B or algebra and geometry) with at least a 75. General biology with at least an 80 and successful completion of chemistry. Desired: Pre-calculus and physics.

### Chemistry Concentration

Required: minimum high school average of B- (at least an 83); chemistry, biology, and physics; three years of math. Desired: pre-calculus.

### English, History, or Social Studies Concentration

Required: minimum high school average of B- (at least an 83); Math B or Algebra and Geometry score of at least 70; two years of science (earth science, biology, chemistry, or physics); English average of at least 83; History average of at least 83.

### Math Concentration:

Required: high school average of at least 73; 4-year high school average in Math of at least 78; pre-calculus. Desired: AP calculus.

**Career Opportunities:** This degree is designed to give students an introductory exposure to the profession of teaching at the primary and secondary levels. On completion of the associate degree, program graduates will go on to complete a bachelor degree in education at a transfer institution and to work in the field as a teacher.

**Transfer Opportunities:** Students who successfully complete this program transfer to a variety of education programs both with the SUNY system and in private colleges and universities.

### Graduation Requirements:

**Total Hours:** 64 -67, depending on concentration

**GPA:** 2.7

**Local Distribution:** 30 credits minimum (AS options); 30 credits minimum (AA option)

**SUNY General Education:** 31 credits minimum

**Math Proficiency:** MATH 102 or higher

Upon successful completion of the program a graduate will be able to:

Demonstrate pedagogical content knowledge and skills necessary to be a successful teacher education student

Demonstrate professional knowledge, skills and dispositions necessary to be a successful teacher education student

Demonstrate a critical understanding of the American educational system, the roles and responsibilities of teachers, and diverse student populations.

Analyze how learning occurs in real-world contexts.

## CURRICULUM REQUIREMENTS

Required Courses	Credits
Professional courses (11 credits)	
PSYC 101 Introduction to Psychology	3
EDU 101 Introduction to Teaching	1
EDU 201 Foundations of Education	3
EDU 202 Guided Fieldwork in Education	1
<b>Early Childhood and Childhood options:</b>	
PSYC 241 Child Development	3
<b>Adolescence option:</b>	
PSYC 242 Adolescent Development	3
Core courses required in the concentration	(9-22 credits)
ENGLISH (AA, Early Childhood, Childhood, Adolescence)	(9 Credits)
One course from the following:	
LITR 203 American Literature to 1900	3
LITR 204 American Literature 1800 to the Present	3

One course from the following:	
LITR 205 English Literature to 1800	3

LITR 206 English Literature 1800 to the Present	3
One course from the following:	
LITR 211 Black American Writers	3
HUMN 231 Native American Studies	3
HISTORY (AA, Early Childhood and Childhood)	(12 Credits)
Two courses from the following:	
HIST 101 United States History to 1800	3
HIST 102 U.S. History 1800 to 1900	3
HIST 103 U.S. History from 1900-Present	3
One course from the following:	
HIST 161 European History to 1648	3
HIST 162 European History from 1500	3
One course from the following:	
HIST 220 African American History	3
HIST 225 Women in the United States	3
SOCIAL STUDIES (AA, Adolescence) (15 Credits)	
POLI 101 American National Government	3
ECON 100 Introduction to Macroeconomics	3
ECON 140 Introduction to Microeconomics	3
Two courses from the following:	
HIST 101 United States History to 1800	3
HIST 102 U.S. History 1800 to 1900	3
HIST 103 U.S. History from 1900-Present	3
MATH (AS, Early Childhood, Childhood, Adolescence)	(12 Credits)
MATH 145 Discrete Mathematics	3
MATH 149 Elementary Linear Algebra	3
MATH 151 General Calculus A	3
MATH 152 General Calculus B	3
*Note: Math concentration requires that students place into MATH 103. If placement is lower, extra courses will be required.	
BIOLOGY (Early Childhood, Childhood, Adolescence)	(20 Credits)
BIOL 120 General Biology I + lab	4
BIOL 121 General Biology II + lab	4
BIOL 285 Microbiology	4
CHEM 121 General College Chemistry + lab	4
CHEM 122 General College Chemistry II + lab	4
CHEMISTRY (AS, Early Childhood, Childhood, Adolescence)	(22 Credits)
CHEM 121 General College Chemistry I + lab	4
CHEM 122 General College Chemistry II + lab	5
CHEM 241 Organic Chemistry I + lab	4
CHEM 242 Organic Chemistry II + lab	3
MATH 151 General Calculus A	3
MATH 152 General Calculus B	3
Required Other	(3 credits)
Foreign Language in addition to SUNY General Education Requirement	3
SUNY General Education Requirements	(31 Credits)
(may be fulfilled in Core Courses Required for Concentration)	
Mathematics	
Natural Sciences	
Social Sciences PSYC 101	
American History	
Western Civilization	
Other World Civilizations	
Humanities COMP 102	
The Arts	
Foreign Language	
Basic Communication COMP 101	



# MASSAGE THERAPY

## A.A.S. – CODE #1342

**Program Description:** This program is specifically designed to meet the New York State Licensure requirements for massage therapy training, including a minimum of 150 hours in a clinical setting. Massage therapy technique classes are hands on experiences that offer students the experience to work with various populations and pathologies. These experiences allow students to enter the massage therapy profession with the skills and confidence necessary to succeed. Students also receive instruction in general studies, sciences and massage history. To progress through the program a student must achieve a minimum grade of C in all massage therapy and biology courses. The associate in applied science degree in Massage Therapy is designed to prepare students for the practice of the profession of Massage Therapy. Licensed massage therapists are independent health care professionals who provide services through the skilled manipulation of the soft structures of the body focusing on both prevention and treatment.

**Career Opportunities:** Massage therapists may be self-employed or employed in a variety of settings including the offices of chiropractors and physical therapists, destination and day spas, wellness centers, hospitals, hospice programs, long-term care facilities, corporations, cruise ships, professional athletic teams and performing arts companies.

Students completing the A.A.S. degree will be academically prepared to meet the licensure requirements as specified by the New York State Education Department.

Graduates seeking licensure in New York State must apply for and pay an examination fee. Licensure is based upon the successful completion of the massage therapy exam and the ability to answer questions to establish “good moral character.” Anyone who has been convicted of/and or charged with a felony or misdemeanor in any state or country, surrendered a license or been found guilty or charged with professional misconduct, unprofessional conduct, incompetence or negligence, will be subject to a review by an investigator for the Office of Professional Discipline and may experience problems or delays with the licensing process. Inquiries should be directed to the Division of Professional Licensing Services, Office of the Professions, New York State Education Department.

**Transfer Options:** The New York State Department of Education allows the transfer of 250 hours of previously completed massage therapy course work. A transfer student will be expected to submit comprehensive course descriptions and transcripts from his/her previous massage school(s) to be evaluated.

**Program Requirements:** Students accepted into the program must submit a complete physical examination and proof of immunizations as required by the Public Health Law due to affiliations with area health care facilities. Students are to adhere to the same requirements as employees. Students must demonstrate the strength, mobility and manual dexterity to perform in all laboratory/clinical settings in order to maintain the safety of clients and meet performance standards. All students must be covered by a health insurance policy in order to participate in the laboratory/clinical portion of the program. If a student does not have valid health insurance, the college provides information about procuring health insurance.

Each student must provide documentation of having one western and one eastern bodywork session prior (massage) to enrolling in the program-failure to do so will result in massage therapy courses being removed from the students schedule prior to the start of classes. This will delay enrollment in the massage therapy classes for a year.

Students will not be eligible for admission or continuation in the massage therapy program if they repeat any of the following courses twice without earning a grade of C or higher, including dropping/withdrawal or failing, at this institution or another college: all MAST courses, BIOL 150, BIOL 151, BIOL 135, BIOL 136, BIOL 137

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

- Demonstrate effective and safe delivery of therapeutic massage utilizing a variety of techniques
- Identify and analyze pathologies
- Develop appropriate treatment plans based on client assessment

- Communicate in a professional and effective manner with clients and the general public
- Demonstrate professional and ethical behaviors related to massage therapy
- Document massage therapy sessions accurately and professionally utilizing accepted formats and terminology
- Demonstrate the ability to adapt to various practice settings
- Develop a treatment plan

**Program Outcomes:**

The pass rate for graduates will meet or exceed the NYS pass rate (+ or -5%) for those taking the examination for the first time.

75% of those students progressing to the second semester will complete the program within the time identified on the sample study plan.

Students completing the A.A.S. degree will be academically prepared to meet the licensure requirements as specified by the New York State Education Department.

**Graduation Requirements:** All AAS programs require a minimum of 60 credit hours including 20 credit hours from Liberal Arts and Science courses. These requirements are fulfilled in the following list of courses for this program. A grade of C or higher is required for all BIOL and MAST courses that are used as prerequisite courses in the MAST program.

**GPA:** Overall GPA of 2.00 or higher

**CURRICULUM REQUIREMENTS**

Required Courses		Credits
MAST 100	CPR for Healthcare Providers	1
MAST 101	Eastern Anatomy and Physiology	3
MAST 102	Western Massage I	4
MAST 103	Western Massage II	2
MAST 104	Eastern Massage	2
MAST 201	Western Medical Massage	4
MAST 202	Eastern Medical Massage	4
MAST 203	Professional Issues	1
MAST 204	Massage Clinical Experience	5
MAST 205	Senior Seminar	3
MAST 206	Professional Practice Issues	2
BIOL 135^	Myology I	3
BIOL 136^	Myology II	3
BIOL 137	Neurology	4
BIOL 150^	Human Anatomy and Physiology I	4
BIOL 151^	Human Anatomy and Physiology II	4
COMP 101^	Composition and Research	3
COMP 110	Technical Communications	
-or-		
COMM 111^	Introduction to Speech	3
PSYC 101^	Introduction to Psychology	3
Additional General Elective Credits		2
<b>TOTAL PROGRAM CREDITS</b>		<b>60</b>

DEMONSTRATED PROFICIENCIES THROUGH MAGN 101 IS REQUIRED

^Courses on the Liberal Arts and Science list  
Two additional credits are needed to fulfill the 60 credit requirement for an AAS degree

# MECHANICAL ENGINEERING

## TECHNOLOGY A.A.S. — CODE #0493

Mechanical Engineering Technology is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** Mechanical Engineering Technology applies almost universally to industry and engineering technology. It is oriented to production and is concerned with such areas as product design, manufacturing technology,

product and material testing, and quality control.

The curriculum emphasizes three technical streams: technical graphics communication, manufacturing processes, and mechanical design. It is a laboratory oriented program that provides a wide selection of courses in CAD, machining, mechanical design and manufacturing processes. A hands-on equipment philosophy applies from drafting to machining to hydraulics. Theory and practical work are coordinated to give a thorough but broad understanding of the skills required by industry.

The program, which is ETAC of ABET accredited, prepares the student to enter manufacturing or allied industries as a draftsman, designer, engineering technician aide, laboratory technician, quality and production control technician or as a technician in plant operation.

**Accreditation:** This program is accredited by the Engineering Technology Accreditation Commission of ABET.

**Career Opportunities:** The Mechanical Engineering Technology program prepares students for careers in design and drafting, engineering aide, laboratory technician, quality and production control, plant engineering technician, mechanical design, metal working, and foundry industries.

**Transfer Options:** Most Mechanical Engineering Technology graduates pursue a four-year degree in Mechanical Engineering Technology, Manufacturing Engineering Technology, or Computer-Integrated Manufacturing Technology.

**Program Learning Outcomes:** Upon successful completion of the program, students will be have:

- Apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities;
- Apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge;
- Conduct standard tests and measurements, and to conduct. Analyze, and interpret experiments;
- Function effectively as a member of a technical team;
- Identify, analyze, and solve narrowly defined engineering technology problems;
- Apply written, oral, and graphical communication in both technical and non-technical environment; and an ability to identify and use appropriate technical literature;
- Understand the need to engage in self-directed continuing professional development;
- Show a commitment to address professional and ethical responsibilities, including a respect for diversity; and
- Show a commitment to quality, timeliness, and continuous improvement.

**Graduation Requirements:** All AAS programs require a minimum of 60 credit hours including 20 credit hours from Liberal Arts and Science courses. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher and the average of all grades in the program core courses must be 2.0 or higher.

## CURRICULUM REQUIREMENTS

Required Courses		Credits
CAD 184	Computer-Aided Drafting for Mechanical Design	2
CAD 186	3D Parametric Solid Modeling	2
DRFT 151	Engineering Drawing	2
DRFT 252	Geometric Dimensioning and Tolerancing	2
MFG 110	Dimensional Metrology	2
MFG 206	CNC Machining	3
MFG 207	Quality Control	2
MFG 208	Computer Aided Manufacturing – Mastercam	2
MFG 221	Manufacturing Processes I	3
MFG 240	Design/Manufacture Capstone	3
MECH 101	Machine Tools	3

MECH 120^	Engineering Materials	3
MECH 211^	Analytical Mechanics	3
MECH 212	Mechanical Design	4
MECH 213^	Strength of Materials	4
MECH 233	Fluid Power and Control	4
PHYS 107^	Introductory Physics I	4
COMP 101^	Composition and Research	3
MATH 151^	General Calculus A	3
COMP 110^	Technical Communications	3

Additional General Elective Credits	3
<b>TOTAL PROGRAM CREDITS</b>	<b>60</b>

^Courses on the Liberal Arts and Science list

3 Three additional credits are needed to fulfil the 60credit requirement for an AAS degree

## MEDICAL OFFICE ADMINISTRATION A.A.S. – CODE #2200

Medical Office Administration is a ThinkPad University curriculum using laptop computers integrated into courses. This program is offered at the Morrisville Campus only.

The Medical Office Administration program is designed to give the student a background for medical office work in this electronic age. To supplement the regular program of study, special features emphasize medical coding and billing as well as medical transcription, information processing and/or the opportunity to acquire specialized knowledge working within the front end of a medical office. Students in the Medical Office Administration program will have the opportunity to work with up-to-date computers and software. Students are introduced to the various exams that may be required of them upon graduation in relation to the transcription and coding occupations. Should a student be interested in completing these exams, faculty may advise students to enroll in some of Morrisville's upper level courses (OFFT 301 – Advanced Medical Coding and OFFT335 – Advanced Medical Transcription) to enhance their success within these exams. Students are required to participate in an internship program their second year where they combine their education and interpersonal skills. Various required courses listed in the Proposed Curriculum structure (below) may be earned through articulation agreements between various high schools and SUNY Morrisville. Distance learning courses are currently in place for all of the medical courses as well as some of the general education requirements and electives. No previous business education is required. Scheduling is flexible, with students being placed in courses according to the level of proficiency achieved in high school. Students are placed in the curriculum with the appropriate courses that challenge their skills and enhance their learning experience. Graduates of the two-year Medical Office Administration program receive the associate in applied science (AAS) degree. Credits may be transferred into any one of the following, four-year degree programs in the School of Business to School of Agriculture, Sustainability, Business and Entrepreneurship at Morrisville (Entrepreneurship, Business Administration or the Tech Management degree). This program is fully accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

**Career Opportunities:** Employment available as a front-end office manager in health care facilities; billing and/or coding specialist in medical offices, hospitals, and insurance companies; and medical transcriptionist for medical facilities. Many students completing this degree decide to outsource their expertise to health care offices and work from home. They, therefore, have a variety of offices in which they work for simultaneously.

**Graduation Requirements:** A total of at least 20 credit hours are required in humanities, mathematics or sciences and social sciences areas. A minimum average of C in all Medical Office Administration courses as well as an overall 2.0 GPA is required for graduation. A minimum of 62 credit hours is required.

**Program Learning Outcomes:** Upon successful completion of the Medical Office Administration Degree, students will be able to:

Transcribe a dictated letter or report into a mail-ready document using a

computer and transcribing equipment;

Apply appropriate critical thinking skills and identify human relation skills in structured case settings;

To analyze medical language using prefixes, suffixes, root words, and combining forms;

To identify and practice legal and ethical responsibilities of an administrative medical specialist, (i.e., HIPAA mandates, medical records, health information, and consents and disclosures as well as telephone etiquette);

Code diagnoses and procedures using ICD-9-CM and CPT 4 coding systems;

Identify and apply technological skills including: operating systems, spreadsheets, database management

## CURRICULUM REQUIREMENTS

Required Courses		Credits
OFFT 116	Medical Keyboarding	2
OFFT 117	Office Administration Orientation	1
OFFT 120	Document Design for Effective Communications	3
OFFT 130	Data Entry	1
OFFT 135	Machine Transcription	2
OFFT 200	Medical Coding	3
OFFT 201	Outpatient Billing	2
OFFT 202	Inpatient Billing	2
OFFT 216	Office Practice Simulation	3
OFFT 218	Medical Office Procedures	3
OFFT 220	Document Design for Business Analysis	3
OFFT 235	Medical Transcription	3
OFFT 250	Medical Terminology	3
OFFT 291	Office Technology Internship I	1
OFFT 292	Office Technology Internship II	1
ACCT 100	Accounting Info and Mgmt. Decisions	3
BSAD 102	Business Math	3
BSAD 140	Business Communications	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
Math	(as advised)	3
BIOL 150	Human Anatomy and Physiology I	3
BIOL 150L	Human Anatomy and Physiology I Lab	1
Additional General Elective Credits		7
<b>TOTAL PROGRAM CREDITS</b>		<b>62</b>

Seven additional credits are needed to fulfill the 20 credit Liberal Arts and Sciences requirement. Please chooses at least two of the remaining SUNY Gen Ed Categories: Am Hist, West Civ, World Civ, Arts, Foreign, Language, Natural Science, Social Science

## NATURAL RESOURCES CONSERVATION A.A.S. —CODE #0617

The Natural Resources Conservation curriculum provides fundamental training in ecology, fish and wildlife, forestry, outdoor recreation and related subjects. Students receive a broad-based education with an emphasis on practical, hands-on experience. College, state and county properties provide a wide assortment of opportunities for field experiences such as fish surveys, trail building, wildlife habitat improvement and forest surveys and management.

**Career Opportunities:** Parks, forestry, arboriculture, fisheries and wildlife management. Soil conservation service, conservation officer, forestry technician, forest ranger, environmental consultant, water and wastewater treatment plant operator.

**Graduation requirements:** Students in the Natural Resources Conservation major must complete a minimum of 61 credit hours of course work (with no less than 20 hours in Liberal Arts and Sciences) with a minimum cumulative GPA of

2.0 and all of the requirements listed below.

**SUNY General Education Requirements:** The SUNY general education requirements do not apply for students in AAS degrees. However, students who intend to transfer to another SUNY institution or pursue the B. Tech. program in Renewable Resources Technology should work with their academic advisor to complete at least five of the general education requirement areas (see catalog section titled Academic Information: SUNY General Education Requirements).

**Math Proficiency:** demonstrated Proficiency through MAGN 101 - Elementary Algebra

**Program Learning Outcomes:** Upon completion of the program, and according to the particular concentration of this major, a successful graduate will be able to:

Describe the state of the natural resources profession and potential career opportunities.

Conduct himself/herself in a manner consistent with an embodied sense of conservation stewardship.

Deal professionally and ethically with clients, the public, and agency personnel.

Utilize oral and computer communication skills necessary to interact in the profession.

Demonstrate advanced knowledge and competency in taxonomy and natural history.

Demonstrate hands-on experience in natural resource sampling, inventory, and measurement techniques.

Demonstrate competency in utilizing geospatial technologies (Global Positioning System – GPS, Geographic Information System – GIS, and remote sensing).

Apply critical thinking and problem-solving skills in natural resource conservation.

Utilize existing technology, products, and services to maximize work efficiency and success.

Practice a collaborative spirit in team-efforts and project coordination.

## CURRICULUM REQUIREMENTS

Required Courses		Credits
NATR 100	Introduction to Forestry and Natural Resources	3
NATR 101	General Ecology	3
NATR 110	Natural Resources Measurements	3
NATR 115	Forest Ecology	3
NATR 120	Introduction to Recreation Area Management	3
NATR 142	Plane Surveying	3
NATR 144	Seminar in Environmental Resources	1
NATR 210	Dendrology	3
NATR 213	Basics of Geospatial Technology	1
NATR 250	Aquatic Ecology	3
BIOL 102	Botany-Form and Function of Seed Plants	3
ENVT 100	Introduction to Environmental Technology	3
NATR 103	Natural Resource Equipment Operation	2
AGRO 110	Soil Science	3
OFFT 110	Introduction to Spreadsheet Software	1
MATH	(as advised)	3
Basic Communications*	(as advised)	6
American History/The Arts/Other World Civilizations/Social Science/Western Civilization/Foreign Languages	(as advised)	3
Technical Elective†		2

Three of the following five capstone elective courses:

NATR 221	Invasive Species Management	3
NATR 232	Wildlife Ecology and Management	3
NATR 252	Fish Ecology and Management	3
NATR 215	Practices of Silviculture	3
NATR 211	Forest Protection	3
<b>GENERAL EDUCATION REQUIREMENTS</b>		<b>(20 credits minimum)</b>

**TOTAL PROGRAM CREDITS**

61

\*Basic Communications must include COMP 101 and COMP 102, 110 or COMM 111

‡ Technical Elective must be selected from subject areas: AGBS, AGEN, AGSC, BIOL, BSAD, CHEM, CJUS, ENSC, ENVT, HORT, NATR, RENG, RREN  
Student in the Natural Resources Conservation major may specialize in technical concentrations.

**SOCIETY OF AMERICAN FORESTERS ACCREDITED FOREST TECHNOLOGY CONCENTRATION:**

The educational program in the Natural Resources Conservation program, Forest Technology concentration leading to the AAS is accredited by the Society of American Foresters (SAF).

Students wishing to specialize in Forestry and Silviculture may complete the Forest Technology Concentration Minor in the Natural Resources Conservation A.A.S. program by taking: as their three capstone electives:

NATR 211	Forest Protection
NATR 215	Practices of Silviculture
NATR 232	Wildlife Ecology and Management
BSAD 116	Organizational Behavior and Management

as their fourth semester technical elective, and then completing the four credit hour NATR 246 Internship in Natural Resources at an approved forest industry internship site.

**NURSING A.A.S. – CODE #0622**

**Program Description:** The mission of the SUNY Morrisville Department of Nursing is to foster the development of the intentional learner who is prepared to transition to practice as a member of the interdisciplinary health care team. The nursing program will provide educational opportunities that promote student learning across the lifespan, cultures, and the health/wellness continuum. The nursing faculty are committed, collaborative partners with students and healthcare agencies, supporting nursing workforce needs and interests in our communities while striving to meet its continual and changing health care needs. The focus of the program is mastery of graduate level competencies reflecting the knowledge, skills, and attitudes required for the delivery of safe, quality care.

This program prepares individuals for entry into practice as a professional nurse. Upon completion of the program students receive the A.A.S. degree and are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

The Norwich campus is a day/evening program. Students should be advised that evening clinical experiences are dependent upon enrollment and the schedule is subject to change.

**Accreditation:** The program is accredited by the Accreditation Commission for Education in Nursing, 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326 (404-975-5000), [www.acenursing.org](http://www.acenursing.org)

**The State Education Department**

Division of Professional Education  
89 Washington Avenue, 2nd Floor  
West Wing, Albany, NY 12234  
(518)-486-2967, [OPPROGS@nysed.gov](mailto:OPPROGS@nysed.gov)

**Career Opportunities:** The Nursing program prepares the graduates for careers in a variety of settings such as: acute care hospitals, long-term care facilities, home care, community-based agencies, and rehabilitative facilities.

Candidates for licensure must meet all requirements as determined by the State Education Department. In addition to meeting the educational requirements for the NCLEX-RN; applicants must also answer questions establishing “good moral character”. Anyone who has been convicted of/and or charged with a

- felony
- misdemeanor professional misconduct
- unprofessional conduct and/or

• negligence, in any state or country, may experience problems or delays with the licensing process

Inquiries should be directed to the Division of Professional Licensing Services, Offices of the Professions, New York State Education Department ([www.nysed.gov/nurse.htm](http://www.nysed.gov/nurse.htm)). The application fees for licensure, due at the time of application (NURS 250) are approximately a total of \$ 375 payable to the testing vendor and State Education Department.

**Transfer Options:**

**Advanced Standing** - Graduate practical nurses and other qualified individuals seeking advanced standing status must schedule an advisement meeting with the Director of Nursing to determine readiness for entry and placement into the nursing program. Students seeking advanced standing may choose to take the Excelsior College examinations for anatomy and physiology, microbiology and developmental psychology for transfer credit.

**Transfer and Non-Traditional Students** - Prospective students should arrange an advisement meeting with the Director of Nursing to determine readiness for entry into the program. Transcripts will be evaluated on an individual basis. Transfer students are required to complete 30 credit hours for degree completion per college policy.

Any student who has repeated two nursing courses or repeated the same nursing course twice (dropping/withdrawal or failing grade) at another college/nursing program will not be eligible for admission to the associate degree nursing program.

Prior to admission, students who have been enrolled in nursing courses at another institution must submit a letter of reference from the Dean or Associate Dean or Chairperson of that program to Director of Nursing at SUNY Morrisville in order to determine the applicant's past performance and potential.

There are established enrollment numbers for each course. Transfer students will be admitted until the defined enrollment number is met.

**Program Agreements:** The nursing program has agreements with SUNY Polytechnic Institute (formerly SUNY IT), Utica/Rome, SUNY Upstate Medical University College of Nursing, Syracuse; and LeMoyne College, Syracuse. Information is available from the school office in Bailey Hall.

Students who were unsuccessful in other nursing programs may not be eligible for admission

**Program Requirements**

Applicants must meet the following Requirements:

Minimum HS average B in Biology, Chemistry and Math

Minimum Regents score 65 in Biology, Chemistry and Math

Minimum GPA: 2.75 for transfer students

Completion of MAGN 101 or placement testing in MATH 102

TEAS test with a minimum composite score of 58.7. (Maximum 2 attempts)

Students who do not meet the admission requirements for the Nursing program may be admitted to the Individual Studies curriculum. A minimum cumulative average of 2.75 is required for admission to Nursing.

**Health Requirements:**

All health clearance requirements must be on file at the Student Health Center three weeks prior to the start of the semester.

Annual physical examination

Tuberculin Skin Test (TST) or follow up X-Ray

Influenza vaccination

2 MMR's

Rubella Titer

Chicken Pox (documented history of disease, vaccination and or a varicella titer)

Hepatitis B Vaccine or signed waiver

Meningitis Vaccine or signed waiver



### Tetanus/diphtheria

Current certification in CPR – Basic Life Support (BLS) for Health Care Providers through the American Heart Association is required and must be maintained for the clinical components of all nursing courses. Certification must be obtained prior to enrollment in any clinical course.

Nursing students are to adhere to the same public health laws and facility regulations as employees. Students must meet the facility health requirements and have the ability to meet clinical outcomes with or without reasonable accommodations students must demonstrate:

The strength and manual dexterity to perform in all laboratory and clinical settings and to maintain the safety of clients without posing a threat to himself/herself.

The visual, hearing and speech skills requisite to client assessment and professional performance including reading, recording client information, performing auscultatory exams, and performing any and all other diagnostic and therapeutic procedures.

Students with a suspected or documented latex hypersensitivity are responsible for being tested (Latex IgE) prior to entering the program.

**Transportation Information:** Transportation is available from the SUNY Morrisville campus to area hospitals and other health care facilities. Throughout the program, clinical experience is correlated with the theoretical content presented in the classroom. Each of these experiences is planned to meet the learning needs of the students. Students will need to provide their own transportation to clinical for the preceptor experience; the second half of NURS 250.

### Additional Expenses:

The following are approximate additional expenses: uniforms/special equipment \$150, lab kits \$50-\$100/ course in the first year, achievement tests \$140-200/ semester (this includes the cost for NCLEX-RN review materials).

A student may only repeat any nursing course once, for a maximum of two repeats for the entire curriculum. Repeats include instances of dropping/withdrawing/ failing. When a student fails to complete any/all course(s) required to progress to the next semester, they will not be scheduled for the nursing sequence until documentation of completion has been received and approved. Following approval, scheduling will occur on a space available basis. This may delay the student's time to degree completion. Readmission to the program is on a "space available" basis. In some instances a student seeking readmission will be required to meet with the Director of Nursing to describe remedial actions undertaken and to address the factors that will enhance their success. It is the responsibility of the student to prove their behaviors have changed in a substantive fashion.

### End-of-Program Student Learning Outcomes:

The curriculum is compatible with the philosophy and conceptual framework of the Division of Nursing and provides educational experiences that prepare a graduate to:

Advocate for the patient and their families to promote a partnership in providing compassionate and coordinated care based on respect for patient's preferences, values, and needs.

Use their clinical reasoning ability to integrate nursing science in the provision of safe and quality care necessary to minimize risk of harm to patients, family, and providers.

Integrate best current evidence with clinical expertise based on the patient and the family's values and preferences for delivery of optimal healthcare..

Examine the evidence that supports clinical practice and question underlying assumptions necessary to improve the quality and safety of health care systems.

Make judgements in practice based on information and technology to communicate, manage knowledge, mitigate error, and support decision making.

Conduct self in a way that reflects integrity, responsibility, and ethical practices necessary to function effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, and shared decision-making to achieve safe and quality patient care.

### Program Outcomes:

Eighty percent (80%) of the graduates of the first time test takers will meet or exceed the National Council Licensure Exam (NCLEX-RN).

Ninety percent (90%) of the program graduates will be employed in nursing and/ or will be enrolled in a baccalaureate program within six (6) months of graduation.

Sixty percent (60%) of students will complete the program within three (3) years of matriculation into the nursing programs.

**Graduation Requirements:** All AAS programs require a minimum of 60 credit hours including 20 credit hours from Liberal Arts and Science courses. To fulfill these requirements along with the required courses for this program, 64 credits are required for this program. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher

A student must maintain a 2.0 grade point average to remain in good standing. To progress to the next sequential nursing course, a student must achieve a minimum grade of C+ in each nursing course and a minimum of a C in anatomy and physiology courses. A mathematics course is not required, however, all nursing courses (through NURS 250) require that each student pass mandatory medication mathematic proficiency exams.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
NURS 105	Fundamentals in Nursing IA	3
NURS 110	Fundamentals in Nursing IB	4
NURS 150	Nursing Care of the Individual with Common Health Problems	9
NURS 152	Pharmacology I	1
NURS 210	Nursing Care of the Individual with Common Complex Health Problems	9
NURS 212	Pharmacology II	1
NURS 250	Nursing Care of the Individual with Multiple Common Complex Health Problems	8
NURS 251	Transition into Practice	1
NURS 252	Pharmacology III	1
BIOL 150^	Human Anatomy and Physiology I	4
BIOL 151^	Human Anatomy and Physiology II	4
BIOL 285^	Microbiology I	4
COMP 101^	Composition and Research	3
COMP 102^	Writing About Literature	3
NUTR 108	Basic Nutrition	3
PSYC 101^	General Psychology	3
PSYC 241^	Child Development	3
<b>TOTAL PROGRAM CREDITS</b>		<b>64</b>

DEMONSTRATED PROFICIENCIES THROUGH MAGN 101 IS REQUIRED

^Courses on the Liberal Arts and Science list

## OFFICE ADMINISTRATION

### A.A.S. – CODE #1906

Office Administration is a ThinkPad University curriculum using laptop computers integrated into courses. This program is also offered at the Norwich Campus.

The Office Administration program is designed to give the student a background for office work in this electronic age. To supplement the regular program of study, special features emphasize word processing, information processing and/or the opportunity to acquire strong teamwork and communication skills. This program is fully accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

Students in the Office Administration program will have the opportunity to



work with up-to-date computers and software. Students are prepared to take the Mous certification tests, as well as State and Civil Service tests for keyboarding specialists or other more advanced clerical state positions. Students are encouraged to participate in an internship program their second year where they combine their education and interpersonal skills. Various keyboarding, computer, and business math courses may be earned through articulation agreements between various high schools and SUNY Morrisville.

Distance learning courses are currently in place for most of the core Office Administration courses as well as some of the general education requirements and electives. No previous business education is required. Scheduling is flexible, with students being placed in courses according to the level of proficiency achieved in high school. Opportunities exist for students who wish to take the Expert MOUS certifications. Students are placed in the curriculum with the appropriate courses that challenge their skills and enhance their learning experience. Graduates of the two-year Office Administration program receive the associate in applied science degree (AAS). Credits may be transferred to Morrisville's BBA (Business Administration Degree), our B. Tech. – Medical Office Administration Degree or any other four-year degree programs.

**Career Opportunities:** Employment available in industry, small business, banking and finance, medicine, law, civil service, airlines, insurance, communications and foreign service.

**Graduation Requirements:** Minimum 60 credit hours with a cumulative GPA of 2.0 or higher. A minimum average of C in all Office Administration courses. Twenty credit hours are required in humanities, mathematics or sciences and social sciences areas.

#### Program Learning Outcomes:

To evaluate, create and communicate professional and effective oral and written means of communication (memorandums, letters, fax cover sheets, reports, PowerPoints, spreadsheets, agendas/itineraries)

To apply appropriate critical thinking skills and analyze effective strategies for solving various situations that arise in today's office workforce (including ethical practices and prof. telephone/customer service etiquette, as well as demonstrating chain of command and effective time management strategies)

To receive and transcribe from oral dictation letters, reports, statistical data and calculations into a mail-ready formats (stressing grammatically correct and professional formatted documents from such dictation; involving plugging in data from a variety of sources, filling in missing pieces, meeting with others to gain critical info)

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
OFFT 111/112	Keyboarding 1A and Keyboarding 1B	2
OFFT 112/113	Keyboarding 2A and Keyboarding 2B	2
OFFT 117	Office Administration Orientation	1
OFFT 120	Document Design for Effective Communications	3
OFFT 130	Data Entry	1
OFFT 135	Machine Transcription	2
OFFT 210	Administrative Support State Procedures	3
OFFT 216	Professional Office Practice	3
OFFT 220	Document Design for Business Analysis	3
OFFT 291	Office Technology Internship I	1
OFFT 292	Office Technology Internship II	1
ACCT 100	Accounting Info and Mgmt. Decisions	3
-or-		
ACCT 101	Principles of Accounting I	3
BSAD 102	Business Math	3
BSAD 116	Business Organization and Management	3
BSAD 140	Business Communications	3
BSAD	Business Elective	3
CITA 101	Principles of computer applications	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Math (as advised)	3
	Additional General Elective Credits	11
<b>TOTAL PROGRAM CREDITS</b>		<b>60</b>

Eleven additional credits are needed to fulfill the 20 credit Liberal Arts and Sciences requirement. Please choose at least two of the remaining SUNY Gen Ed Categories: Am Hist, West Civ, World Civ, Arts, Foreign, Language, Natural Science, Social Science

## OFFICE TECHNOLOGY- INFORMATION PROCESSING A.A.S. – CODE #0457

Office Technology - Information Processing is a ThinkPad University curriculum using laptop computers integrated into courses.

The Information Processing program combines the Office Technology-Administrative Option curriculum courses with the Computer Information Systems curriculum to provide career training within an area of increasing employment opportunities in information processing. This program is fully accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

**Career Opportunities:** Office positions in industry, small businesses, banking and finance, medical, legal, civil service, airlines, communications, and insurance. Employment duties emphasize word processing, database management, spreadsheets, graphics and electronic communication.

**Graduation Requirements:** A minimum of 60 credit hours with a cumulative GPA of 2.0 or higher. A total of 20 credit hours is required in humanities, mathematics or sciences and social sciences areas. A minimum average of C in all Office Administration courses.

#### Program Learning Outcomes:

To evaluate, create and communicate professional and effective oral and written means of communication (memorandums, letters, fax cover sheets, reports, PowerPoint, spreadsheets, agendas/itineraries).

To design, implement and evaluate strategies for solving various situations that arise in today's office workforce (including ethical practices and professional telephone/customer service etiquette, chain of command and effective time management strategies).

To receive and input/transfer data in appropriate and most effective application software.

To prepare students to work in a fast paced, multitasked position within a busy office environment.

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
OFFT 111/112	Keyboarding 1A and Keyboarding 1B	2
OFFT 113/114	Keyboarding 2A and Keyboarding 2B	2
OFFT 117	Office Administration Orientation	1
OFFT 120	Document Design for Effective Communications	3
OFFT 130	Data Entry	1
OFFT 135	Machine Transcription	2
OFFT 210	Administrative Support Staff Procedures	3
OFFT 216	Office Practice Simulation	3
OFFT 220	Document Design for Business Analysis	3
OFFT 291/292	Office Technology Internship I & II	2
ACCT 100	Accounting Info and Mgmt. Decisions	3
-or-		
ACCT 101	Principles of Accounting I	3
BSAD 102	Business Math	3
BSAD 116	Business Org. Management	3
BSAD 140	Business Communications	3
CITA 110	Introduction to Information Technology	3
CITA 120	Computer Concepts & Op System	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Math (as advised)	3
Additional General Elective Credits		11

**TOTAL PROGRAM CREDITS****60**

Eleven additional credits are needed to fulfill the 20 credit Liberal Arts and Sciences requirement. Please chooses at least two of the remaining SUNY Gen Ed Categories: Am Hist, West Civ, World Civ, Arts, Foreign, Language, Natural Science, Social Science

## OFFICE ADMINISTRATION: MANAGEMENT A.A.S. – CODE #1905

Office Administration: Management is a ThinkPad University curriculum using laptop computers integrated into courses. This program is also offered at the Norwich Campus.

The leadership and organizational skills required to succeed as an office manager in today's electronic office are taught in this program. Electronic mail, voice mail, teleconferencing, networking, and on-line computer services, are emphasized. Students in this program also take Business Administration courses and may transfer to a four-year program in areas such as management and/or human resource management, among other degree areas.

**Graduates of the Office Administration:** Management program receive the Associate in Applied Science (AAS) degree.

**Accreditation:** The Office Administration: Management program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

**Career Opportunities:** Positions in office as supervisor or manager of employees.

**Graduation Requirements:** A minimum of 60 credit hours with a cumulative GPA of 2.0 or higher is required. An average of C or above in all OFFT courses is required for graduation. OFFT 216 is the highly recommended business elective for this major.

**Program Learning Outcomes:**

To evaluate, create and communicate professional and effective oral and written means of communication (memorandums, letters, fax cover sheets, reports, PowerPoint, spreadsheets, agendas/itineraries).

Students will compose a well-written, grammatically correct, 3-5 page research thesis, using a minimum of three courses, regarding current trends in the office environment, such as "The Virtual Office" or "The Changing Role of the Secretary due to technological advancement," and others.

Students will create a business letter, mailing labels, and envelopes using a mail merge software application utilizing a self-created database including a minimum of ten contacts.

**CURRICULUM REQUIREMENTS**

Required Courses		Credits
OFFT 111/112	Keyboarding 1A and Keyboarding 1B	2
OFFT 113/114	Keyboarding 2A and Keyboarding 2B	2
OFFT 117	Office Administration Orientation	1
OFFT 120	Document Design for Effective Communications	3
OFFT 130	Data Entry	1
OFFT 135	Machine Transcription	2
OFFT 210	Administrative Support State Procedures	3
OFFT 220	Document Design for Business Analysis	3
OFFT 251	Office Management	3
OFFT 291/292	Office Technology Internship I and II	2
ACCT 100	Accounting Info and Mgmt. Decisions	3
	-or-	
ACCT 101	Principles of Accounting I	3
BSAD 102	Business Math	3
BSAD 116	Business Organization and Management	3
BSAD 108	Business Law I	3
BSAD 140	Business Communications	3
BSAD 215	Human Resource Management	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Math (as advised)	3

**Additional General Elective Credits****11****TOTAL PROGRAM CREDITS****60**

Eleven additional credits are needed to fulfill the 20 credit Liberal Arts and Sciences requirement. Please chooses at least two of the remaining SUNY Gen Ed Categories: Am Hist, West Civ, World Civ, Arts, Foreign, Language, Natural Science, Social Science

## RENEWABLE ENERGY TECHNOLOGY A.A.S. – CODE #2098

Renewable Energy Technology is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

The Renewable Energy Technology Associate in Applied Science (RET A.A.S.) degree provides students with a broad and comprehensive technical education in the rapidly growing field of renewable energy. The RET A.A.S. program focuses on developing skilled technicians who are prepared to enter the job market as entry-level installers, operators, or maintenance technicians for renewable energy technologies including grid-tied solar photovoltaic, solar thermal, small wind, micro hydroelectric and multiple bioenergy systems. The degree program has the flexibility to train students directly out of high school, as well as displaced workers who already possess a mechanical or electrical technical background.

The Renewable Energy Technology A.A.S. is a demanding curriculum for incoming students as there are strong math, biology, chemistry, physics, and electrical engineering components to the program. SAT scores, combined with math and science units, and their high school average will help to ensure that incoming students will be able to handle a rigorous curriculum.

Required tools/equipment: Laptop, clipboard (with built in storage recommended), 11-in-1 screwdriver, safety glasses, work gloves, work boots (steel/safety toe), waterproof rubber boots (recommended), hard hat, and rain gear (coat and pants/bibs).

**Career Opportunities:** Graduates from the RET A.A.S. have been successfully employed entry-level installers or maintenance technicians for renewable energy technologies including grid-tied solar photovoltaic, small wind, micro hydroelectric and bioenergy systems. Graduates are currently working in several states across the country and abroad within their chosen renewable energy field.

**Transfer opportunities:** Students completing the RET A.A.S. can seamlessly transfer into the Renewable Energy Bachelors of Technology degree at SUNY Morrisville. Additional transfer opportunities and articulation agreements are being developed with other 4-year institutions in New York.

**Graduation Requirements:** A minimum of 60 credit hours is required for graduation with an A.A.S. in Renewable Energy Technology, including all of the courses listed as "major requirements."

GPA of 2.0 or higher required.

**Liberal Arts and Science Local Distribution Requirement:**

At least 20 credit hours of Liberal Arts and Sciences (recommend completing 7 of 10 SUNY General Education categories).

Minimum of 8 credits of lab-based Natural Sciences.

**Program Learning Outcomes:**

Upon successful completion of the A.A.S. in Renewable Energy Technology, students will be able to:

Interpret electrical system schematics and designs to safely connect renewable energy circuit components

Install, maintain, and troubleshoot renewable energy systems by developing problem-solving skills through critical thinking in both hands-on and written technical environments

Work safely and responsibly in groups with diverse individuals

Describe basic social, political, and economic driving forces impacting renewable energy resources and systems regionally, nationally and abroad

**CURRICULUM REQUIREMENTS**

Required Courses		Credits
RENG 101	Electrical Theory for Renewable Resources	4
RENG 102	Renewable Energy Resources	3
RENG 103	Renewable Energy Seminar	1
RENG 150	Analysis Techniques for Renewable Energy	1
AGEN 151	Applied Hydraulics for Hydropower Generation	3
RENG 310	Biomass Energy Resources	3
RENG 221	Introduction to Small Wind Systems	3
RENG 231	Introduction to Solar Photovoltaics	3
AGEN 125	Residential Electrification	3
NATR 213	Basics of Geospatial Technology	1
-or-		
CAD 181	Intro to Computer-Aided Drafting	1
OFFT 110	Introduction to Spreadsheet Software	1
Natural Science	(as advised)	8
COMP 101	Composition and Research	3
	Humanities (as advised)	3
HIST, WC, OW	(as advised)	3
Social Science	(as advised)	3
Additional General Elective Credits		14
<b>TOTAL PROGRAM CREDITS</b>		<b>60</b>

**RESIDENTIAL CONSTRUCTION****A.O.S. – CODE #0463**

Residential Construction is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** The Residential Construction curriculum is designed to provide students with an educational background that will prepare them for a career in the residential building industry, including the retail sales of building materials.

Practical hands-on experience is emphasized through course work in construction techniques, energy systems, sanitation, masonry systems, foundation concepts, and surveying. In addition to the technical skills, the program is designed to develop business skills by exposing students to course work in business law, accounting, employee supervision and public speaking.

**Career Opportunities:** Employment opportunities are as numerous as the various segments of the home-building industry. Employment related directly to residential construction could include working with a contractor as an estimator, job scheduler, job supervisor, materials purchasing agent or material distribution agent. The area of sales will offer opportunities in several categories. Real estate and development is another area needing people with construction knowledge to prepare custom housing proposals.

General contractors of housing developments and subdivisions also need qualified people with those same skills. Building materials sales will offer the best entry-level opportunities for the qualified graduate. Retail building materials sales, contractor sales, the wholesale segment of the material business, and product manufacturers are all in quest of employees with knowledge of residential construction techniques and accepted practices.

**Program Learning Outcomes:** Upon successful completion of the program, students will be able to:

Develop estimates, construction contracts, and material lists for typical residential structures.

Design and build masonry systems including foundations, concrete and masonry unit structures for residential applications.

Estimate, plan schedule and complete building projects with minimal supervision for residential construction.

Demonstrate best practices and safety while constructing wood framing for residential structures.

Apply a working knowledge of a rough-in and devise installation for utilities for residential dwellings.

Interpret and interpolate working drawings used for construction of residential commercial structures.

Estimate the major material components and standards of workmanship for the home building industry.

**Graduation Requirements:**

All AOS programs require a minimum of 60 credit hours. This requirement is fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher

**CURRICULUM REQUIREMENTS**

Required Courses		Credits
RESC 106	Graphic Communication	3
RESC 130	Light Framing	3
RESC 160	Introduction to Building Material and Estimating	3
RESC 201	Estimating and Planning	3
RESC 211	Masonry and Foundations	3
RESC 221	Plumbing	3
RESC 260	Heating and Energy Systems	3
RESC 270	Construction Planning and Management	4
CAD 181	Introduction to CAD	1
WOOD 101	Wood Products and Processes	3
WOOD 260	Production Maintenance & Supervision	2
AGEN 125	Electrification	3
AGEN 135	Construction Surveying	3
BSAD 108	Business Law I	3
BSAD	Business As Advised	3
ACCT 100	Accounting Info & Management Decisions	3
COMP 101^	Composition and Research	3
COMP 110^	Technical Communications	3

**DEMONSTRATED PROFICIENCIES THROUGH SKLS 091**

Additional General Elective Credits	8
<b>TOTAL PROGRAM CREDITS</b>	<b>60</b>

^Courses on the Liberal Arts and Science list

3 Eight additional credits are needed to fulfill the 60 credit requirement for an AOS degree

**RESTAURANT MANAGEMENT****A.A.S. – CODE #0572**

Restaurant Management is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

Restaurant Management emphasizes a sequence of management courses which includes food service and hotel operations. In addition, students take food and beverage merchandising, purchasing and cost control and are serve safe certified. Students also work in The Copper Turret Restaurant operated in the village of Morrisville during the fourth semester. The Copper Turret is a full service tavern and upscale dining facility where the students rotate through positions in both front and back of the house.

Graduates of this program are prepared to work as entry-level managers in hotels, restaurants, clubs, fast food units, airlines, catering, theme parks, casinos, resorts, and various entertainment complexes.

The hospitality field offers graduates mobility to positions such as food and beverage director, bar manager, food production supervisor, and general manager/owner. Graduates also transfer to the college's BBA in Resort and Recreation Service Management or other bachelor degree programs.

**Career Opportunities:** Manager or assistant, food and beverage director, banquet and catering manager, purchasing agent, food production supervisor and dining room supervisor in restaurants, hotels, colleges, schools, resorts, convention centers, major sporting events, and entertainment facilities.

**Graduation Requirements:** Students graduating from this program must complete a minimum of 62 credit hours earned and maintain at least a 2.0 gpa. Students must also complete at least 20 credit hours in Liberal Arts and Sciences. Also, a residency requirement of 30 credit hours at SUNY Morrisville should be met.

#### Program Learning Outcomes:

Students completing the Restaurant Management Curriculum will:

Understand and define basic management theories common to all types of foodservice operations.

Identify and illustrate the basic elements of equipment design and layout in food service facilities.

Possess an extensive business portfolio that displays an up to date resume, cover letter, skill set, work philosophy, career goals and shows extensive work samples.

Demonstrate basic culinary skills and apply those skills in a commercial kitchen operation

Recognize proper food handling procedures and demonstrate through a national certification exam, a high level of knowledge regarding foodservice safety and sanitation.

Explain basic concepts involved in marketing and how they can be applied to food service operations to facilitate financial objectives.

Demonstrate the ability to work in a full-service restaurant setting in positions in both the front of the restaurant, and back of the restaurant.

Calculate recipe and menu cost, create work schedules, order products, and demonstrate the delivery of exceptional customer service.

Exhibit a comprehensive working knowledge of restaurant operations management.

Demonstrate an understanding of purchasing in the hospitality industry by writing food and non-food specifications, applying purchasing practices, interpreting market trends, using new technology applications, and analyzing operational cost control.

#### CURRICULUM REQUIREMENTS

Required Courses		Credits
FSAD 101	Quantity Food Preparation and Service	3
FSAD 102	Applied Food Service Sanitation*	1
FSAD 153	Fundamentals of Hospitality Management	3
FSAD 154	Equipment Selection and Layout	3
FSAD 201	Summer Cooperative Employment	2
	-or-	
TOUR 251	Cooperative Work Experience	2
FSAD 205	Food and Beverage Merchandising and Management I	4
	-or-	
CAS 240	Hospitality Sales & Marketing	3
FSAD 255	Food Purchasing and Cost Control*	4
FSAD 257	Senior Seminar	1
FSAD 258	Restaurant Management and Operations	6
TOUR 106	Introduction to Travel/Tourism and Hospitality Industry	3
TOUR 153	Hotel Operations	3
NUTR 108	Basic Nutrition	3
School Elective (BSAD, FSAD, TOUR, CUL, CAS, BREW, RRMT)		3
ACCT 100	Accounting Information and Management	3
OFFT 110	Introduction to Spreadsheet Software	1
COMP	(As Advised)	3
Additional General Elective Credits		17
<b>TOTAL PROGRAM CREDITS</b>		<b>62/63</b>

Seventeen additional credits are needed to fulfill the 20 credit Liberal Arts and Science requirement

## TRAVEL/TOURISM HOSPITALITY MANAGEMENT A.A.S. – CODE #0680

Travel/Tourism Hospitality Management is a ThinkPad University curriculum in which the use of a laptop computer is integrated into courses.

This program takes a global approach to exploring the many segments of the travel/tourism-hospitality industry. Computer applications are integrated throughout the curriculum and computerized reservation systems are used to prepare graduates with the required competencies.

Graduates of this program are prepared for entry-level management positions in the travel/tourism-hospitality industry. They work at various jobs in the following organizations and agencies: food and beverage establishments throughout various segments of the industry, hotels or motels, bed and breakfast facilities, country clubs, conference centers, corporations in the office of travel or special events, travel agencies, transportation suppliers, national, state or local conference and convention bureaus, and resorts of various types throughout the world.

Students will need to purchase a travel agency uniform shirt. A laboratory fee is required for FSAD 100, TOUR 250, and TOUR 252.

As a unique feature of the program, SUNY Morrisville operates an on-campus travel agency which features live SABRE. All students complete an agency internship. Majors also develop a cruise each year, typically to the Caribbean.

**Career Opportunities:** Entry-level manager of travel/tourism-hospitality businesses, meeting and convention management services, corporate travel, hotel-resort management, tourism agencies, convention bureaus, travel agencies, conference centers, and entertainment facilities.

**Transfer Opportunities:** Many students graduating in the Travel & Tourism curriculum transfer into SUNY Morrisville's Resort & Recreation Service Management BBA program. In order to more readily transfer into the BBA students may opt to take ACCT 101 rather than ACCT 100, Spanish as a General Education elective, a HIST course as a Social Science elective and BSAD 107 or 108 as a School Elective.

**Graduation Requirements:** Students graduating from this program must complete a minimum of 61 credit hours earned and maintain at least a 2.0 gpa. Twenty credit hours are required in humanities, mathematics or sciences and social sciences areas. Also, a residency requirement of 30 credit hours at SUNY Morrisville should be met.

#### Program Learning Outcomes:

Students completing the Travel & Tourism Curriculum will:

Understand and define basic management theories common to all types of foodservice operations.

Possess an extensive business portfolio that displays an up to date resume, cover letter, skill set, work philosophy, career goals and shows extensive work samples.

Demonstrate basic culinary skills and apply those skills in a commercial kitchen operation

Demonstrate a basic comprehension of global geography

Explain and describe various aspects of the travel and tourism industry including air transportation, ground transportation, cruising, lodging, gaming, food service, and tourism attractions and events.

Exhibit the ability to work successfully in the travel and tourism industry for 320 hours; students will receive documentation from an employer, create a written report on their know-how and will conduct an oral presentation on their experience.

Demonstrate the ability to be a cohesive and productive member of the campus run travel agency, displaying customer service skills, competencies on the phone, and displaying sales techniques.

Illustrate through the use of presentations and simulations an understanding of the hotel industry including front office operations, hierarchy of hotel operations; check-in and check-out procedures, and reservations.



Identify key terminology utilized in a hotel setting.

Recall and describe history and culture of several foreign countries as well as the United States as they relate to food.

## CURRICULUM REQUIREMENTS

Required Courses		Credits
CAS 240	Hospitality Sales and Marketing	3
FSAD 100	Global and Ethnic Foods	3
FSAD 153	Fundamentals of Hospitality Management	3
FSAD 257	Senior Seminar	1
TOUR 101	Tourism and Geography	3
TOUR 106	Intro Travel/Tourism & Hospitality Industry	3
TOUR 151	Computerized Reservations System	3
TOUR 152	Travel Industry Operations and Administration	3
TOUR 153	Hotel Operations	3
TOUR 250	Tourism Planning and Development	3
TOUR 251	Summer Co-op	2
	-or-	
FSAD 201	Summer Cooperative Employment	2
TOUR 252	Meeting and Convention Services	3
TOUR 253	Travel Agency Operations	2
TOUR 255	Tourism Agency Operations	2
ACCT 100	Accounting Information & Mgt. Decisions	3
OFFT 100	Introduction to Spreadsheet Software	1
	-or-	
OFFT 106	Personal Computer Keyboarding I	1
	-or-	
OFFT 109	Introduction to Presentation Software	1
	-or-	
OFFT 110	Introduction to Spreadsheet Software	1
	Basic Communication (as advised)	3
SPAN 101		3
Additional General Elective Credits		14
<b>TOTAL PROGRAM CREDITS</b>		<b>61</b>

Fourteen additional credits are needed in at least three general education categories to fulfill the 20 credit Liberal Arts and Science requirement

### Suggested Electives

FSAD 200	Internship in Customer Service	3
BSAD 107	Legal and Regulatory Aspects of Gaming and Hospitality	3
PSYC 101	Introduction to Psychology	3
ECON 100	Introduction to macro-economics	3
CAS 280	Leadership Development Strategies for the Hospitality Industry	3

## WOOD PRODUCTS TECHNOLOGY A.A.S. – CODE #0618

Wood Products Technology is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.

**Program Description:** Wood Products Technology is a one-of-a-kind program in the State of New York, designed to train students for employment in finish carpentry, cabinet-making and furniture production, while using cutting edge technology like computer numerical controlled machinery to enter wood manufacturing industries.

The major begins with a survey of the industry and an introduction to the use of commercial cabinet-making equipment. Students learn wood properties and identification, manufacturing and grading at the sawmill and apply this knowledge to the seasoning or kiln drying of lumber. Students also learn both in theory and practice about adhesives, finishes and wood laminates.

Students can choose either the Finish Carpentry option which includes the electrical, plumbing or light framing trades, or the Furniture Production and

Business option that concentrates on the business aspects where the students learn accounting, marketing and human resource management.

Students following the Finish Carpentry option take all of the wood courses while an introduction to electrical, plumbing and light framing is gained to allow the student to enter the building trades

Students following the Furniture Production and Business option also take all of the traditional wood courses with a concentration of business classes for the student interested in starting their own business or working for a large furniture manufacturer.

The facility is a 14,000 square foot fully-equipped wood center where the students can start with a log and use the same wood to complete a finished project. The technologically advanced equipment includes a WoodMizer LT300 sawmill, SII Dry Kiln with state-of-the-art drying software, a Weinig Profimat #26 five head molder with knife grinding equipment, a modern woodshop with four planers, Sawstop table saws, a Kreg Face frame clamping table and a General 5 hp. Shaper with self-feed.

**Career Opportunities:** The Wood Products Technology program prepares students for supervision and self-employment in the lumber, furniture, cabinet making, and finish carpentry industry. This includes fields like kitchen and bath construction and re-modeling and architectural millwork. Sales and services of related machinery and supplies is another option.

**Transfer Options:** The Wood Products Technology program graduates has many transfer options such as a baccalaureate program in construction technology or wood science and engineering or for a BA at a Business School for students wishing to start their own business.

**Program Requirements:** There is a laboratory fee of \$100 for Wood 101 and Wood 241 courses. For each of these courses the students will complete a wood furniture project that they can keep.

**Program Learning Outcomes:** Upon successful completion of the program, students will be able to:

- Dry any species of lumber with minimal defects.
- Identify defects that will cause degrade during drying.
- Collect data, create and present a professional laboratory report.
- Demonstrate current safety precautions in a manufacturing setting.
- Operate technological advanced manufacturing equipment.
- Describe the finishing procedure that best fits the application.
- Inspect lumber according to NHLA grading rules and determine best use.

### FINISH CARPENTRY Option

The Finish Carpentry option provides students with wood working skills and construction skills including electrification, plumbing and light framing.

### Graduation Requirements:

All AAS programs require a minimum of 60 credit hours including 20 credit hours from Liberal Arts and Science courses. To fulfill these requirements along with the required courses for this program, 61 credits are required for this program. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher.

## CURRICULUM REQUIREMENTS

Required Courses		Credits
WOOD 101	Products and Processes	3
WOOD 160	Wood Technology	3
WOOD 170	Lumber Manufacturing and Grading	3
WOOD 180	Furniture Design and Construction	3
WOOD 211	Wood Industry Field Trip	1
WOOD 221	Wood Glues, Laminates and Finishes	3
WOOD 231	Seasoning and Preservation	3
WOOD 241	Secondary Wood Processing	4
WOOD 271	Cabinet Design and Manufacturing	3
RESC 130	Light Framing	3
RESC 106	Graphic Communications	3
RESC 221	Plumbing	3



DRFT 151	Engineering Drawing I	2
CAD 181	Introduction to Auto CAD	1
AGEN 125	Electrification	3
COMP 101^	Composition and Research	3
MATH^	As advised to meet SUNY General Education	3
NATR SCI^	Science as advised to meet SUNY GER	3

Additional General Elective Credits	11
<b>TOTAL PROGRAM CREDITS</b>	<b>61</b>

^Courses on the Liberal Arts and Science list

2Eleven additional credits are needed to fulfill the 20 credit Liberal Arts and Science requirement

### FURNITURE PRODUCTION AND BUSINESS Option

The furniture production and business option Prepares students to work in furniture manufacturing and cabinet shops and gives them skills in business including accounting, marketing and human resources. Students that choose this option could operate a small business in wood products.

**Graduation Requirements:** All AAS programs require a minimum of 60 credit hours including 20 credit hours from Liberal Arts and Science courses. To fulfill these requirements along with the required courses for this program, 61 credits are required for this program. These requirements are fulfilled in the following list of courses for this program.

**GPA:** Overall GPA of 2.00 or higher.

### CURRICULUM REQUIREMENTS

Required Courses		Credits
WOOD 101	Products and Processes	3
WOOD 160	Wood Technology	3
WOOD 170	Lumber Manufacturing and Grading	3
WOOD 180	Furniture Design and Construction	3
WOOD 211	Wood Industry Field Trip	1
WOOD 221	Wood Glues, Laminates and Finishes	3
WOOD 231	Seasoning and Preservation	3
WOOD 241	Secondary Wood Processing	4
WOOD 260	Production Maintenance Supervision	2
WOOD 271	Cabinet Design and Manufacturing	3
BSAD 112	Marketing	3
BSAD	Business As Advised	3
DRFT 151	Engineering Drawing I	2
CAD 181	Introduction to Auto CAD	1
ACCT 100	Accounting Info and Management Decisions	3
COMP 101^	Composition and Research	3
MATH^	As advised to meet SUNY General Education	3
NATR SCI^	Science as advised to meet SUNY GER	3

Additional General Elective Credits	11
<b>TOTAL PROGRAM CREDITS</b>	<b>60</b>

^Courses on the Liberal Arts and Science list

2Eleven additional credits are needed to fulfill the 20 credit Liberal Arts and Science requirement

## CERTIFICATE PROGRAMS

### AGRICULTURAL MECHANICS – CODE #0912

The program provides one year of college-level subjects in specialized farm mechanics areas. It is designed for the student who for one reason or another can only find time for one year of college study. Included are many different phases of agricultural mechanization from machinery to electricity and refrigeration.

Student must demonstrate proficiency through MAGN 101 Elementary Algebra  
Sample Study Plan

Course Requirements		Credits
AGEN 100	Tractor Care and Maintenance	3
AGEN 103	Natural Resources Equipment Operation	2
AGEN 105	Principles of Farm Machinery	2
AGEN 115	Agricultural Engineering - Industry Overview	1
AGEN 145	Agricultural Building Systems	3
AGEN 125	Rural and Residential Electrification	3
AGEN 140	Welding	3
AGEN 210	Small Power Equipment II	3
AGEN 220	Maintenance, Repair, and Performance Tuning of Arctic Cat Power Equipment	4
AUTO 103	Internal Combustion Engines	3
AUTO 260	Automotive Air Conditioning	1
DTEC 105	Powertrains I	4
		33

## CASINO CAREERS PROFESSIONAL DEVELOPMENT PROGRAM – CODE #1200

The purpose of the Casino Careers Professional Development certificate program is to provide a unique career opportunity for individuals to gain employment and subsequent advancement within the gaming and entertainment segment. The certificate program has been developed to provide individuals with an opportunity to learn the casino industry business, to learn about the legal and regulatory aspects of gaming, to appreciate the need for appropriate security in the casino business, to understand the particular functions of gaming in a casino, to recognize the relationship of the casino industry to the overall tourism environment in New York state, and to understand the importance of a customer service philosophy.

TOUR 106	Introduction to the Hospitality Industry	3
CAS 102	Introduction to Gaming	3
CAS 103	Casino Security	3
BSAD 107	Legal and Regulatory Aspects of Gaming	3
CAS 240	Hospitality Sales and Marketing	3
TOUR 250	Tourism Planning and Development	3
		18

Courses are offered on an alternating basis.

## WORD PROCESSING – CODE #0996

The Word Processing program is designed for the student who wishes to develop new office skills, particularly in the areas of current office technology (computer software) and office communications, or to refine existing skills. This program is especially appropriate for a person who has been out of high school for a period and is planning to enter or re-enter the office field.

The majority of this Certificate program has online courses which offer the flexibility for those students who work full time or who may be "stay at home parents" and cannot attend classes during the day. This certificate program is offered both at the Morrisville main campus and/or at the Norwich campus.

Students are trained in proper keyboarding and machine transcription techniques, computer software skills and procedures, data entry techniques, letter and report writing, English grammar and spelling, basic accounting principles, telephone operation, mail procedures, reprographics, filing and office machines. The program appeals to the individual desiring skills in operating personal computers and other automatic office equipment. Faculty background includes practical office work experience. Students can easily continue into one of the associate degree programs in Office Administration.

**COURSE REQUIREMENTS****Credits**

BSAD 102	Business Mathematics	3
BSAD 140	Business Communications	3
OFFT 108	Intro. to Personal Management Software	1
OFFT 117	Office Administration Orientation	1
OFFT 120	Document Design for Effective Communication	3
OFFT 130	Data Entry	1
OFFT 113*	Keyboarding 2A	1
OFFT 114	Keyboarding 2B	1
OFFT 210	Administrative Support Staff Procedures	3
OFFT 135	Machine Transcription	2
ACCT 100	Accounting Info. & Mgmt. Decisions	3
OFFT 216	Professional Office Practice Simulation	3
OFFT 220	Document Design for Business Analysis	3
OFFT 291	Office Tech Internship I	1
OFFT 292	Office Tech Internship II	1
		30

\* Keyboarding 1A and 1B (OFFT 111 and 112) may be required of a student when the student lacks basic keyboarding and computer skills.

# COURSE LISTINGS

This section is arranged alphabetically by program titles. The three-digit number is a code keyed to student records including transcripts. Courses indicated by an asterisk (\*) are offered at off-campus sites.

## ACCOUNTING

### ACCT 100 - ACCOUNTING INFORMATION & MANAGEMENT DECISIONS

This course, recommended for non-business majors, is an accounting approach to measuring and reporting upon the economic activity, resources, and obligations of a business. Also discussed is the accounting approach to the application of accounting information to performance evaluation and the decision making process. Basic accounting processes, evaluation of financial position earnings, measurement in retailing and manufacturing, basic cost accounting and budgeting are discussed. This course is not available to accounting, business administration or computer information systems majors.

3 credits (3 lecture hours), fall or spring semester

### ACCT 101 - PRINCIPLES OF ACCOUNTING I

An introduction to accounting theory and principles as applied to a business enterprise is covered in Principles of Accounting I. Principles and procedures as applied to the accumulation, processing and reporting of financial information resulting from business transactions are discussed. Students are exposed to manual and electronic media for the preparation of journals, ledgers, financial statements. Inventories, receivables, payables, plant assets and payroll accounting are also covered.

Prerequisite: MAGN 101

3 credits (3 lecture hours), fall or spring semester

### ACCT 102 - PRINCIPLES OF ACCOUNTING II

This course covers the methods of accounting for corporate organization and operation including equity-related transactions, corporate income statement, and statement of cash flows. Financial statement analysis is also covered. Managerial accounting is also included and covers such topics as product costing, short-run decision making, budgeting, and CVP analysis.

Prerequisite: ACCT 101 minimum grade of C

3 credits (3 lecture hours), fall or spring semester

### ACCT 103 - COMPUTERIZED ACCOUNTING

Introduces students to the advanced automated accounting system used in today's business environment. Teaches skills to convert accounting data into a format that can be processed through contemporary accounting software packages. Exposure to advanced accounting problems incorporates knowledge from the Financial and Managerial Accounting courses. Students will work with spreadsheets, databases, Internet, presentation software, and general ledger programs.

Prerequisite: ACCT 102, minimum grade of C

3 credits (3 lecture hours)

### ACCT 105 - MANAGERIAL ACCOUNTING

This course continues the presentation of managerial accounting topics from Principles of Accounting II. Emphasizes use of accounting data within an organization by its managers. The purpose of this course is to define the information needed, identify sources of information and explain how managers use the information in planning, control, and making decisions. A sampling of relevant articles from recent professional publications will focus on new management techniques necessary in today's changing business environment.

Prerequisite: ACCT 102, minimum grade C

3 credits (3 lecture hours), spring semester

### ACCT 201 - INTERMEDIATE ACCOUNTING I

This course covers advanced accounting principles, practices of corporations, and current trends using publications of the leading accounting organizations such as the Financial Accounting Standards Board and AICPA. Topics include financial statements, current assets, investments, plant assets and current

liabilities.

Prerequisite: ACCT 102 minimum grade of C

3 credits (3 lecture hours), spring semester

### ACCT 205 - COST ACCOUNTING

Topics covered include elements of production cost, material, labor and overhead. Also covered are the job cost system, process cost system, standard cost system, and other miscellaneous cost accounting topics.

Prerequisite: ACCT 102 minimum grade of C

3 credits (3 lecture hours), spring semester

### ACCT 212 - FEDERAL INCOME TAX ACCOUNTING

Basic principles of federal income taxation are covered. Topics include: federal and state income taxation for the individual including filing requirements exemptions, deductions, determination of taxable income, computation of tax, tax credits and tax payments. A project is required.

Prerequisite: ACCT 100 or ACCT 101

3 credits (3 lecture hours), fall semester

### ACCT 301 - INTERMEDIATE FINANCIAL ACCOUNTING I

An extension of financial accounting to include advanced topics related to revenue recognition and measuring and reporting of assets that include cash, investments, receivables, inventories, plant, property, and equipment, and intangible assets. The course will emphasize both accounting theory and practice and the development of professional judgment and critical thinking skills. Designed to help achieve an in-depth understanding of financial accounting sufficient to practice the profession of accounting and to solve problems at the level tested on the Uniform CPA Examination, by the end of the semester, students are expected to understand the principles, assumptions, and constraints that guide financial reporting (as outlined in the FASB's conceptual framework), and to apply US GAAP in several settings. The International Financial Reporting Standards (IFRS) will be emphasized as there is an increasing convergence between US GAAP and IFRS.

Pre-requisite: Enrolled in the Bachelor of Business Administration in Business Administration program, have completed 18 credit hours in 300 level or above business or business related course work, ACCT 101 with a grade of C or above or permission of instructor.

3 credits, fall

### ACCT 302 - INTERMEDIATE ACCOUNTING II

Continuation of ACCT 301. Liabilities and equities, accounting for income taxes, pensions, leases, revenue recognition and statement of cash flows.

Prerequisite: Enrolled in the Bachelor of Business Administration in Business Administration program, ACCT 301 with a grade of C or above, BSAD 350 with a grade of C or above or permission of instructor.

3 credits, fall or spring semester

### ACCT 303 - COST ACCOUNTING

Introduction to managerial accounting and methods used to report information to decision makers internal to the firm. Course topics include cost concepts and behavior, cost estimation, activity-based costing, job-order costing, process costing, joint product costing, budgeting, performance measures, transfer pricing, CVP analysis, customer profitability analysis, and linear programming.

Pre-requisite: ACCT 102 with a C or above or permission of the instructor.

3 credits, fall or spring semester

### ACCT 401 - AUDITING

Study of audit standards and techniques in the conduct of an audit examination. Theory and practice of auditing is studied from both internal and external audit points of view.

Prerequisites: ACCT 302 with a grade of C or above and MIS 375 with a grade of C or above or permission of instructor

3 credits, fall or spring semester

## AGRICULTURAL BUSINESS

### AGBS 100 – AGRICULTURAL ECONOMICS

In this course, fundamental economic principles keyed to agriculture are discussed. Emphasis is placed on specialization and exchange, the commercial banking system, monetary and fiscal policy, and supply and demand. Units on gross national product and the consumer price index, Global international trade, United States and New York state economics are also discussed.

*3 credits (3 lecture hours), fall and spring semester*

### AGBS 110 – INTRODUCTION TO AGRICULTURAL BUSINESS MANAGEMENT

AGBS 110 is a dual-credit course with designated high schools to acquaint selected high school students with the basic principles of agricultural business. Students will have the opportunity to gain valuable career planning skills through job shadowing experiences, resume writing and interviews. Students will learn about the various forms of business organizations, agriculture marketing, sales; consolidated and diversified agriculture business opportunities. Students will also be exposed to the financial management and decision making process of owning and operating an agriculture business.

*Prerequisites: Junior or senior level standing*

*3 credits (3 lecture hours), spring semester*

### AGBS 200 – MARKETING AGRICULTURAL PRODUCTS

Supply and demand analysis, elasticity of demand, commodity futures exchange with emphasis on individual projects in futures trading are included in this course. Market structure, marketing orders, pricing, advertising, and approaches to studying marketing problems are also covered as well as units on cooperatives and marketing alternatives.

*3 credits (3 lecture hours), spring semester*

### AGBS 225 - ENVIRONMENTAL ECONOMICS

This course covers application of basic economic principles to environmental problems, pareto optimality, efficiency, price theory, perfect competition, market intervention and failure, and how the neoclassical theory affects policy decisions regarding the environment. Economic concepts are presented in an environmental context.

*3 credits (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### AGBS 230 – AGRICULTURAL BUSINESS MANAGEMENT

Fundamentals of small agricultural business operation. Forms of business organization. Sources and uses of long and short term credit and extending credit. Capital budgeting and investment analysis.

*2 credits (2 lecture hours)*

### AGBS 240- FARM MANAGEMENT AND FINANCE

This course is designed to give students a broad understanding of the management skills required to be successful in 21st century agriculture. Students will study organizational behavior, human resource management and financial decision making as they relate to agricultural businesses with a particular emphasis on: dairy, equine, vegetable and fruit production. Major emphasis is on the fundamental principles underlying sound farm organizational and operational decision making. The principles and techniques developed are general enough to have validity through time, in any geographic area under any conditions. On the other hand, they are specific enough to be applied to an individual farm at a given time. This course requires a 15 page research paper (APA format) applying sound theoretical and practical research to an agricultural business of choice.

*Prerequisite: ABGS 100 or permission of the instructor*

*4 credits: fall and spring*

### AGBS 250 – DECISION MAKING FOR AGRICULTURAL MANAGERS

Using economic models and managerial decision making processes, students will be responsible for completing weekly analysis of farm operations, identifying and solving problems and/or creating opportunities for improving farm operations.

Students will be actively involved in the process of gathering, organizing, and analyzing financial, production, and labor efficiency data. Upon completion of data analysis, evaluation of alternatives and making final recommendations to management, students will be actively involved in the implementation and monitoring processes. Each semester, students will complete a comprehensive case study analysis.

*3 credits, (2 lecture hours, 2 laboratory hours), spring and fall semesters*

### AGBS 305 – AGRICULTURAL FINANCIAL DECISION MAKING

This course involves case work and on-farm consulting with the Farm Credit System. All lectures will be taught at Morrisville State College. Most laboratory assignments will be completed at First Pioneer Farm Credit (the largest agricultural lender in the United States) in Sangerfield, NY, or at selected farms in which students will act as agricultural leaders.

*Prerequisites: ACCT 101, AGBS 240*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### AGBS 350 – AGRICULTURE BUSINESS DEVELOPMENT

This course provides basic economic theories to help students understand issues related to agribusiness development. Following the study of economic theories, empirical issues will be discussed including agricultural tourism, pollution and environment, the green revolution and the new trends in alternative energy focusing on the economic impact of utilizing bio diesel and ethanol. Students will learn how to look at issues related to agribusiness development from an economic perspective, and will learn how to apply the basic tools of economic analysis to a wide range of issues relating to renewable and non-renewable natural resource use.

*Prerequisites: AGBS 240 or permission of the instructor*

*3 credits (3 lecture hours), fall semester*

### AGBS 400 – DISTRIBUTION & MARKETING OF AGRICULTURAL PRODUCTS

Through a series of six modules--cooperatives in agriculture; agriculture commodity purchasing and selling; food processing; product distribution; consumer retail relations; and financial feasibility--students will gain valuable experience and insight into the rapidly developing value added sector of the agriculture industry. Students are required to take a field trip to New York City and numerous other consumer markets to meet course requirements. All laboratory exercises will be conducted at either Nelson Farms, the Agribusiness Dairy Processing facility or established off-campus collaborating businesses. Students will rotate through each module.

*Prerequisites: AGBS 100 Agricultural Economics or ECON 100 Introduction to Macroeconomics or ECON 140 Introduction to Microeconomics, AGBS 200 Marketing of Agriculture Products or BSAD 112 Marketing, AGBS 240*

*4 credits (1 lecture hour, 6 laboratory hours), fall or spring semester*

### AGBS 405 – CAPSTONE FOR FARM MANAGERS & RURAL ENTREPRENEURS

Students will be introduced to successful rural entrepreneurs. They will work in teams and act as consultants to evaluate farm and rural agriculturally based businesses financial, human resources, and strategic management practices. Students interested in food and agricultural entrepreneurship will evaluate food processing techniques, packaging and food safety procedures. Upon identifying key problems, students will present their finding to both class and entrepreneur. All lectures will be taught at Morrisville State College. Most of the laboratory assignments will be completed at the farm or rural business in which the students will be serving as consultants.

*Prerequisites: AGBS 100, AGBS 240, 305, ACCT 100 or ACCT 101*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### AGBS 450 – AGRICULTURE POLICY & DEVELOPMENT

This course will provide students with a foundation in the principles and practices of agricultural policy and the policy process. Students will develop an understanding for the policy process as it relates to agriculture, its interaction with other institutional arrangements, and an awareness of policy analysis. Specific emphasis will be placed on the National Farm Bill, New York State Agriculture Policy and its impact on the rural economy as well as the individual producer. Students are required to participate in field trips to the National



Agriculture Outlook Conference in Arlington, Virginia, and Agriculture Awareness day in Albany, New York.

Prerequisites: AGBS 100 Agricultural Economics or ECON 100 Introduction to Macroeconomics or ECON 140 Introduction to Microeconomics  
3 credits (3 lecture hours), spring semester

#### **AGBS 460 – INTERNATIONAL AGRICULTURE MARKETING**

The globalization of markets for food and agricultural products makes it essential to understand how international food and agricultural markets function and how they influence the options and choices of food and agribusiness firms. This course examines emerging globalization issues, the global food and agribusiness environment, potential markets, global agribusiness strategy, and global agribusiness operations. The course will also examine the impact of our changing social demographics on domestic product sales. Students will be required to prepare and present an analysis of barriers to international trade and opportunities for emerging national and international markets, as well as develop an international marketing plan for a product of their choice.

Prerequisites: AGBS 100

3 credits (3 lecture hours), spring semester

#### **AGBS 470 – INTERNSHIP IN AGRICULTURAL MARKETING AND MANAGEMENT**

In this course, students will participate in supervised fieldwork in a selected agriculture business or agriculture service organization. Students carry out a planned program of educational experiences under direct supervision of an owner, manager, or supervisor of the agriculture business/organization. Each intern will be advised and monitored by a member of the faculty on a regular basis. Requirements include a journal, interim reports, supervisor evaluations, a summary report and an oral presentation.

15 credits

#### **AGBS 480 – RETAILING AGRICULTURE PRODUCTS**

This course provides students with a comprehensive view of retailing and direct marketing of agriculture products. Students will study and analyze current multi-channel retail strategies among box stores, roadside/farms stands, farmer's markets, grocery stores and ecommerce activities. Students will be required to research and track the life of a value added product from the farm to the table, prepare and present a plan to market a value-added agriculture product to a box store of their choice, as well as obtain experience working in a retail setting.

Prerequisites: AGBS 240

3 credits (3 lecture hours), spring semester

## **AGRICULTURAL ENGINEERING**

#### **AGEN 100 - EQUIPMENT CARE & MAINTENANCE**

Care, adjustments and overall maintenance of gasoline and diesel power applications. Servicing, fuel systems, lubrication, cooling, exhaust systems, clutch and brake adjustments and hydraulic systems will be covered. Principles of safety as applied to mobile machinery are emphasized. The course is designed for basic competency skills in care and maintenance.

3 credits (2 lecture hours, 2 laboratory hours)

#### **AGEN 102 - AGRICULTURAL EQUIPMENT OPERATION**

Familiarize students with the safe and proper methods of operating, performing maintenance, managing and selecting equipment in an economically viable way. Equipment that will be covered includes stationary and mobile machines such as feed mixers, equipment normally found on dairy farm, and forestry and construction industries. Lectures highlight management considerations whereas laboratories emphasize proper machine operation.

2 credits (1 lecture hour, 3 laboratory hours), fall semester

#### **AGEN 104 - ESTATE & SMALL FARM EQUIPMENT OPERATION**

This course will familiarize the student with safe and proper methods of operating, performing maintenance, managing and selecting equipment in an economically viable way. Equipment covered will include stationary and mobile machines such as auxiliary power units and equipment found on small farms and horticultural applications. It does not include the in-depth study into any specific machine, but covers the basics.

2 credits (1 lecture hour, 3 laboratory hours), fall semester

#### **AGEN 105 - PRINCIPLES OF FARM MACHINERY**

Care, adjustment, operation and repair of tillage, planting and harvesting field machinery common to New York state farms with special attention to adjustment and maintenance in the laboratory are covered in this course. Efficient machinery selection and use is also investigated.

2 credits (1 lecture hour, 2 laboratory hours), fall semester

#### **AGEN 110 - SMALL POWER EQUIPMENT**

Principles of operation, service and repair of 2 and 4 cycle small engines and the equipment which they operate such as lawn and garden equipment, chain saws, small power generators and outboard motors. Laboratory practice in testing, servicing and rebuilding the equipment.

2 credits (1 lecture hour, 2 laboratory hours), fall semester

Non-majors only

#### **AGEN 115 - AGRICULTURAL ENGINEERING—INDUSTRY OVERVIEW**

This course will expose the student to the many and varied opportunities that exist for graduates in Agricultural Engineering Technology and Agricultural Mechanics. The course will present a broad spectrum of speakers to describe their careers and the linkages that exist to their educational background.

1 credit (1.5 lecture hours), first 10 weeks of fall semester

#### **AGEN 120 - WATER SUPPLY & SANITATION**

Development of sources of water. Selection, servicing, installation of pumping equipment, and treatment of water. Designing and installing supply plumbing and sanitary disposal systems.

2 credits (1 lecture hour, 2 laboratory hours), spring semester

This course satisfies the Liberal Arts and Sciences requirement.

#### **AGEN 125 - RESIDENTIAL ELECTRIFICATION**

Design, installation, and troubleshooting of alternating current circuits used in residential construction. Circuit planning and layout as per national electrical code is emphasized. A set of hand tools is required for this course.

3 credits (2 lecture hours, 2 laboratory hours), spring semester

#### **AGEN 131 – FUNDAMENTALS OF HYDRAULICS**

Students will develop a foundation of hydraulic principles and system operation as found on mobile hydraulic systems. Topics studied will include the principles of flow and pressure and how force can be multiplied within a mobile hydraulic system. The student will be introduced to components used in hydraulic systems: pumps (gear, vane and piston), valves, cylinders and accumulators. Students will also develop an understanding of how an open center hydraulic system functions.

3 credits (2 lecture hours, 2 laboratory hours), fall semester

#### **AGEN 135 - CONSTRUCTION SURVEYING**

Basic concepts of construction surveying as it specifically relates to agriculture and conservation applications, including field work in land drainage, pipeline stakeout, building stakeout and road construction. Survey planning and associated survey computations. Emphasis is on the operation of modern land measurement equipment including dumpy, laser and automatic levels, theodolite and EDM.

3 credits (2 lecture hours, 3 laboratory hours), fall semester

#### **AGEN 140 - WELDING**

Operation of oxyacetylene and electric welders. Laboratory practice in welding and cutting of ferrous metals by processes common and current to the industry.

3 credits (1 lecture hour, 1 recitation, 2 laboratory hours), spring semester

#### **AGEN 145 - AGRICULTURAL BUILDING SYSTEMS**

The design of agricultural production facilities as an integration of unique structural, environmental, and waste management systems is studied along with the principles of design and construction of the structure and associated environmental systems with emphasis on coordination of various systems. Laboratory exercises include construction of an exemplary structure on site.

3 credits (2 lecture hours, 3 laboratory hours), spring semester



### AGEN 151 – APPLIED HYDRAULICS FOR HYDROPOWER GENERATION

This course covers the basic concepts of water hydraulics as applied to hydropower generation. The course is introductory in nature and is intended to provide basic review of fluid static and hydrodynamic conditions as applied to micro- and mini-hydro power generation systems. Focus will be on the utilization of the conservation of energy principle to establishing the conditions that will impact the selection of a hydropower generation system along with the assessment of how to harness energy from flowing fluids (water).

*Prerequisites:* MATH 102

*3 credit (2 lecture hour, 2 laboratory hours), spring semester*

### AGEN 161 - BASIC HYDRAULICS

This course will present the fundamental principles of hydraulic and pneumatic systems as used on mobile agri-cultural, construction and on-highway machinery. Disassembly and inspection of the various components in hydraulic systems will be completed throughout the course. Introduction to ISO graphic symbols and how they are represented in actual systems will be stressed. Additionally, diagnostics and testing of equipment will be discussed.

*Prerequisite:* AGEN 131 or permission of instructor

*Pre- or Co-requisite:* MAGN 101 or permission of instructor

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### AGEN 210 - ADVANCED SMALL POWER EQUIPMENT

Students will learn technical and business aspects of operating a small engine repair business and technical theory covering design characteristics of different types of compact power units for lawn and garden, recreational vehicle, and commercial and industrial applications. Laboratory classes simulate repair shop conditions. Students are re-sponsible for scheduling, servicing, performing repairs of equipment for the college community. A basic set of tools is required.

*Prerequisite:* AGEN 100 or AGEN 110

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

### AGEN 220 – MAINTENANCE, REPAIR, & PERFORMANCE TUNING OF ARCTIC CAT RECREATIONAL EQUIPMENT

This course will cover the maintenance, repair, and performance tuning of Arctic Cat Snowmobiles and All-Terrain Vehicles. The concepts taught will be common to many other sport equipment manufacturers' products. The systems studied will include; Suspension, EFI, Drivetrain, Electrical, Fuel, and 2 and 4 stroke engines. The course will include mandatory testing that will allow the student to be certified at the basic level of Arctic Cat CatMaster Technician Certification.

*Prerequisite:* AGEN 210 and successful completion of EETC 4-Stroke Cycle Test

*4 credits (2 lecture hours, 4 laboratory hours), spring semester*

### AGEN 240 - ADVANCED WELDING

Bonding and fusion of metals including alloy steels and nonferrous metals. Metallurgical changes which accompany welding and the fabrication of metals, TIG, MIG, Flux-cored and plasma-arc processes are stressed.

*Prerequisite:* AGEN 140 or AUTO 102

*2 credits (1 recitation, 2 laboratory hours), fall semester*

### AGEN 261 - ADVANCED HYDRAULICS

This course will be an application of previously mastered principles of hydraulic systems to both farm and light industrial equipment. Inspection, testing and servicing hydraulic circuits, systems and components, such as pumps, lift systems, hydraulic transmissions and motors will be emphasized. Appropriate testing procedures and equipment will be used. System difficulties and common service problems will be diagnosed.

*Prerequisite:* AGEN 131, AGEN 161, MAGN 101 or permission of instructor.

*4 credits (2 lecture hours, 1 recitation hour, 2 laboratory hours), fall semester*

### AGEN 270 - TRACTOR OVERHAUL & REPAIR

In this course, students study principles, overhaul and repair of multi-cylinder internal combustion engines and various types of engines used in farm and light

industrial power applications. Design and construction of engine components and systems and fundamentals and principles of systems of power transmission are covered. There is a laboratory practice in which students may use their own machines.

*Prerequisites:* AGEN 100, AGEN 261, DTEC 250, or permission of instructor, agricultural engineering majors only

*5 credits (2 lecture hours, 4 laboratory hours), spring semester*

### AGEN 300 - INTERNSHIP IN AGRICULTURAL ENGINEERING

Students work in an approved job in the agricultural engineering industry. Comprehensive written report required at the end of the work period. Employer and staff evaluation are due upon completion of internship.

*Prerequisite:* Completion of one semester in Agricultural Engineering and permission of staff, overall GPA of 2.0.

*4 credits (12-Week, 480-hour minimum), fall or spring semester*

## AGRICULTURE & NATURAL RESOURCES

### AGNR 200 – JOB PREPARATION SKILLS & RESOURCES

This course investigates career opportunities in the field of agriculture. Students learn how to prepare for a job interview in their specific field. They will prepare resumes, cover letters, and practice various types of interview skills.

*Prerequisite:* Senior Standing

*1 credit (2 hours lecture/seminar)*

### AGNR 400 – INSTRUCTIONAL ASSISTANCE EXPERIENCE

Designed to concentrate students' knowledge in an Agriculture Science or Natural Resource discipline to the extent that they can convey that knowledge to associate degree level students. As part of their course work they will re-search class topics, lead discussions for 100 or 200 level course work, demonstrate practical applications during laboratory sessions, and assist the professor with class and lab preparation. Student is expected to meet regularly with a discussion or laboratory section, to gain instructional experience, and to regularly discuss course objectives, techniques, and subject matter with the Lead Faculty member.

*Prerequisite:* "B" or better in the required course or by permission of the Instructor.

*1-4 credits (as arranged with the Professor)*

*fall or Spring Semester*

## AGRONOMY (CROPS & SOILS)

### AGRO 105 - SOIL & WATER CONSERVATION

Principles of soil and water conservation are covered in this course as well as practical application through land use, runoff and erosion control and soil management practices.

*2 credits (3 lecture hours, 2 laboratory hours), spring semester (8 weeks)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### AGRO 110 - SOIL SCIENCE

This course covers the fundamentals of soil science, origin, nature and formation of soils, physical and chemical properties and soil management practices.

*3 credits (2 lecture hours, 2 laboratory hours), fall and spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### AGRO 210 - FIELD CROPS

Production of field crops, their importance, adaptation, varieties and cultural practices are covered in this course.

*Prerequisite:* AGRO 110 or permission of instructor

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### AGRO 215 - SOIL FERTILITY & FERTILIZERS

Principles involved in supplying essential elements for growing plants. Soil and tissue analysis, nutrient deficiency symptoms. Factors in manufacture, applications and economics of fertilizers, amendments and organic materials.

*Prerequisite: AGRO 110*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **AGRO 310 - PASTURE MANAGEMENT & FORAGES**

#### **PRODUCTION**

Fundamentals of pasture management and forages production for maximum yield, quality, and longevity.

*Prerequisite: AGRO 110*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

## **AGRICULTURAL SCIENCE**

### **AGSC 120 - DOMESTIC ANIMAL BEHAVIOR**

This course is designed to provide the student with an introduction to, and a general understanding of domestic animal behavior. The evolutionary aspects of behavior, learning theory, normal and abnormal behaviors will be studied. Material will be presented concerning dogs, cats, sheep, goats, hogs, cattle and horses with an emphasis on cattle and horses.

*3 credits (3 lecture hours), spring semester*

### **AGSC 132 - INTRODUCTION TO COMPUTER APPLICATIONS IN PRECISION FARMING I**

Application of computer software in agricultural business, crop production, and dairy management as it relates to precision farming including: GPS, GIS, fertilizer recommendation, dairy ration software, dairy genetic software, and farm management software.

*2 credits, fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **AGSC 135 - COMPUTER APPLICATIONS IN AGRICULTURAL RESEARCH I**

Application of computer software in agricultural research including: statistical packages which include ANOVA, Duncan Multiple range test, correlation, etc.

*1 credit, spring semester*

### **AGSC 137 - ANALYSIS & INTERPRETATION OF AGRICULTURAL DATA**

This course encompasses an introduction to statistical methods to agricultural students using examples and applications. It focuses on teaching students basic statistical analysis using spreadsheet programs and other pertinent computer tools.

*2 credits, spring semester*

### **AGSC 140 - COMPUTER APPLICATIONS IN PRECISION FARMING II**

The student will pursue research projects in the area of GPS, GIS and other precision farming-related areas and then make presentations using PowerPoint.

*Prerequisite: AGSC 132 & 135 or consent of instructors*

*1 credit, spring semester*

### **AGSC 145 - COMPUTER APPLICATIONS IN AGRICULTURAL RESEARCH II**

The student will pursue projects in the areas of basic and applied research and then make presentations on the project using PowerPoint.

*Prerequisite: AGSC 130 & 135 or consent of instructors*

*1 credit, fall semester*

### **AGSC 246 - INTERNSHIP IN AGRICULTURAL SCIENCE**

This internship involves students working in an approved job in agriculture. A journal, written report, and employer and faculty evaluation are required upon completion of the internship.

*4 credits (12 weeks, 480 hours minimum), fall semester*

### **AGSC 350 - ANIMAL GENETICS**

This course provides an application of the principles of genetic selection for

the improvement of dairy cattle and horses. The basic concepts of inheritance from both mathematical and biological perspectives are emphasized. Progeny and performance testing programs, pedigree analysis, mating systems and their application to selection and production of genetically superior animals are discussed.

*Prerequisites: DAS 100 or ESCI 305 and DANS 120 or ESCI 110 with a C or better (prerequisite or co-requisite)*

*3 credits (3 lecture hours), spring semester for equine or fall semester for dairy students, alternate years, even years*

## **AMERICAN SIGN LANGUAGE**

### **AMSL 101 - AMERICAN SIGN LANGUAGE I**

American Sign Language may be used to satisfy the SUNY General Education requirement for Foreign Language only by students in programs leading to certification in elementary and secondary education and in programs leading to careers where there is likely to be significant contact with the hearing impaired. This is an introductory course for students in American Sign Language with basic vocabulary, structure, syntax and grammar. Conversational skills will be emphasized from an expressive and receptive perspective, as well as the manual alphabet, numbers, colors and facial grammar. Exposure to Deaf Culture and culturally appropriate behaviors will be included in the course.

*3 credits (3 lecture hours); fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Foreign Language.*

### **AMSL 102 - American Sign Language II**

A continuation of AMSL I involves the study of advanced ASL vocabulary, linguistic structures, and Deaf culture. Students will develop advanced levels of receptive and expressive conversational skills.

*Prerequisite: AMSL I or permission of instructor*

*3 credits (3 lecture hours); fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Foreign Language.*

## **ANIMAL SCIENCE**

### **ANSC 100 - ANIMAL SCIENCE & INDUSTRY**

Concurrent Enrollment

This is a concurrent enrollment course with designated high schools to acquaint high school students with animal science and industry. It offers an introduction to farm and companion animal production and its affiliated industries with emphasis on the biological nature of animals, infrastructures and economic uniqueness of affiliated industries, animal products and services, and the management of animal enterprises.

*3 credits (minimum of 45 lecture hours), spring semester*

## **ANTHROPOLOGY**

### **ANTH 101 - INTRODUCTION TO ANTHROPOLOGY**

An introduction to the study of human beings, ranging across the four fields of biological and cultural anthropology, archaeology and linguistics. Focus is placed on human evolution and origins, development of human culture, and description and comparison of differing ways of life around the world. Emphasis on basic anthropological concepts of evolution, culture, kinship, institutions, globalization and socio-historical change.

*3 credits, fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Other World Civilization.*

*Students may not receive credit for both SOCS 122 and ANTH 101*

## ARCHITECTURAL STUDIES & DESIGN

### ARCH 101 - ARCHITECTURAL GRAPHIC COMMUNICATIONS

This is a drawing course designed to teach students interested in architecture to recognize and graphically depict forms and textures in the natural and built environment. Instruction will be given in freehand and hardline drafting/drawing; basic pencil, color and rendering techniques; orthographic projection, as well as the principles of pictorial (oblique, axonometric and perspective) drawing. These drawing techniques, methods and principles will aid students in the development of their architectural presentation, drawing, and rendering skills. The course will culminate in the execution and composition of individual comprehensive architectural presentations.

*Pre- or Co-requisites:* ARCH 141, MATH 102 (minimum) or permission of instructor  
2 credits (1 lecture hour, 2 laboratory hours), fall semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for the Arts*

### ARCH 102 - INTRODUCTION TO ARCHITECTURE

This course seeks to examine the questions, "What is an architect?" "What does an architect do?" and "What is architecture?" Addressed will be the development of the architectural education system in the United States, including an introduction to the internship development program, licensure and registration, and professional practice. Particular focus will be given to the wide range of tasks that architects are required to perform. Also studied through the exploration of the social, environmental, behavioral, aesthetic, technological and political influences, will be the place of architects in society and architecture in culture.

*Co-requisite:* COMP 100 (minimum) or permission of instructor  
2 credits (2 lecture hours), fall semester

*This course counts toward the Liberal Arts and Sciences requirement*

### ARCH 141 - ARCHITECTURAL DESIGN I

This course will introduce the study of three dimensional design principles. The content of the course will address the design process, the vocabulary of design, rationale and meaning of design, as well as compositional and organizational strategies. Students will explore and express solutions to multiple design problems through different architectural media. The semester will culminate in a final project in which students will be expected to demonstrate their understanding of basic three dimensional design.

*Pre- or Co-requisites:* ARCH 101, MATH 102 (minimum) or permission of instructor  
4 credits (2 lecture hours, 4 laboratory hours), fall semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for the Arts*

### ARCH 142 - ARCHITECTURAL DESIGN II

This course, the second in a series of four, is the sequential course to Architectural Design I. The principles of three dimensional design explored in Architectural Design I, will be applied to problems and analyses dealing with order and definition through the creation and manifestation of spatial volumes. In working through these problems, students are expected to develop and demonstrate a design logic that accounts for composition, precedent, organization and context. Students will also study the relationship of natural light and architectural volume - space. Anthropomorphism will be probed and constructed in response to the words of Vitruvius: firmness, commodity and delight. Ultimately the studio will conclude with a comprehensive final project.

*Prerequisite:* ARCH 141

*Pre- or Co-requisite:* MATH 102 (minimum) or permission of instructor  
4 credits\* (2 lecture hours, 4 laboratory hours), spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for the Arts*

### ARCH 151 - ARCHITECTURE: PREHISTORY TO 1800

This survey of architecture is an overview of the history of architecture from pre-history to the nineteenth century. The major architects and cultural forces shaping each era will be given primary focus. In addition, the social, environmental, behavioral, aesthetic, technological and political forces that influence and affect architectural forms, ideas and urban patterns will be studied.

*Pre- or Co-requisite:* COMP 101 (minimum) or permission of instructor

3 credits (3 lecture hours), spring semester

*This course counts toward the Liberal Arts and Sciences requirement*

### ARCH 243 - ARCHITECTURAL DESIGN III

This is the sequential course to Architectural Design II. It emphasizes the study of the relationship between facade, plan, and section as two-dimensional constructs, describing three-dimensional reality. This will be explored through a combination of analysis problems, and then through associated design problems. Throughout the semester, each student will develop an architectural portfolio emphasizing their creative design process and documenting work from this course and other courses. The presentation of creative work in this portfolio will be approached as a design problem. The portfolio will be created in a digital format.

*Prerequisites:* ARCH 142

*Pre- or Co-requisite:* MATH 103 (minimum) or permission of instructor  
4 credits (2 lecture hours, 4 laboratory hours), fall semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for the Arts*

### ARCH 244 - ARCHITECTURAL DESIGN IV

This is a final course in a four-course sequence. A series of architectural projects proposed and developed in response to the natural and built environment of which the principles of design developed in the previous architectural design courses and other courses will be synthesized. With the use of analyses, design presentations and critiques, students will employ a directed approach to the design projects. Projects will vary depending on the progress and approach to architectural design as deemed appropriate by the faculty member.

*Prerequisite:* ARCH 243

*Pre- or Co-requisite:* MATH 103 (minimum) or permission of instructor  
4 credits (2 lecture hours, 4 laboratory hours), spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for the Arts*

### ARCH 252 - ARCHITECTURE: 1800 TO PRESENT

This survey of the western tradition in architecture is an overview of the history of architecture from the nineteenth century through today. The major architects and cultural forces shaping each era will be given primary focus. The social, environmental, behavioral, aesthetic, technological and political forces that influence and affect architectural forms, ideas and urban patterns will be explored through analytical study.

*Prerequisite:* ARCH 151, COMP 101 (minimum) or permission of instructor

3 credits (3 lecture hours), spring semester

*This course counts toward the Liberal Arts and Sciences requirement*

### ARCH 271 - ARCHITECTURAL TECHNOLOGY I

This course is an introduction to building construction and materials with an emphasis on the various enclosure systems developed for wood. The student will explore floor, wall and roof assemblies including joists, rafters, studs, windows, doors and advanced pre-engineered products. Students will be expected to design appropriate solutions for specific loading configurations as determined through calculations and material criteria. Building code use and construction document creation will be integrated throughout the course.

*Prerequisite:* ARCH 101, CAD 181 or permission of instructor

*Pre- or Co-requisite:* CAD 183, MATH 103 (minimum) or permission of instructor

3 credits (1 lecture hour, 4 laboratory hours), fall semester

### ARCH 272 - ARCHITECTURAL TECHNOLOGY II

Building upon knowledge developed in ARCH 271, students will investigate various interior and exterior enclosure systems, with an emphasis on materials such as concrete and steel. Student will study the principles of these materials from individual structural characteristics, industry uniqueness, to industry uses. This course will investigate in detail sitecast and precast concrete framing systems, concrete reinforcing and detailing, and steel framing systems and detailing. Also included will be site planning (interpolation and grading), traditional and innovative roofing systems, building accessibility and construction documentation (drawings, project manuals/specifications).

*Prerequisites:* ARCH 271, CAD 183, MATH 103 (minimum) or permission of instructor

3 credits (1 lecture hour, 4 laboratory hours), spring semester

## ART

### ART 101 - BASIC ART

Students will study visual perception through the use of drawing and painting media, stressing both technical skills and individual expression; and exploring both form and content. Students are assigned projects and critiques that are based on drawings from still life, interiors and the imagination.

2 credits (4 laboratory hours), fall or spring semester

### ART 102 - ADVANCED ART

In this course the student will continue to develop competence in drawing and painting techniques with emphasis on developing work in an atmosphere of experimentation and exploration. Short, informal slide presentations on various artists will be given throughout the course. Group and individual problems and critiques will be given.

*Prerequisite:* ART 101 or permission of instructor

2 credits (4 laboratory hours), fall or spring semester

### ART 110 - INTRODUCTION TO THE VISUAL ARTS

This course introduces students to the world of visual arts, including how to look at, interpret, analyze, and understand a variety of art forms, such as drawing, printmaking, painting, sculpture, architecture, design, and the camera arts. We study art from around the world and from the beginning of human civilization as a way of understanding the social, political, and cultural attitudes that influence how art is produced, viewed, and critiqued.

3 credits (3 lecture hours), fall or spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

### ART 120 - INTRODUCTION TO DRAWING

This course introduces students to drawing as artistic expression and communication, studio work in a variety of drawing media, emphasizing principles of line, shape, value and the fundamentals of perspective.

2 credits\* (4 lab/lecture hours), fall or spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

### ART 121 - INTRODUCTION TO PAINTING

An introduction to painting using various techniques and materials. Basic vocabulary of painting skills in value, color and composition with an emphasis on style and expression.

*Prerequisite:* ART 120 or ART 101

2 credits\* (4 lab/lecture hours), fall or spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

### ART 131 - INTRODUCTION TO PHOTOGRAPHY

An introduction to photography and the photographic processes, with an emphasis on the fundamentals of lighting, exposure, processing, printing and the composition of photographic prints.

3 credits (2 lecture hours, 2 laboratory hours) fall or spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

## ASTRONOMY

### ASTR 101 - SOLAR ASTRONOMY

The study of planetary systems is covered in this course. Topics include the history of understanding the solar system and the celestial sphere, principles of telescope design, the nature of the solar system, sun, terrestrial and Jovian planets, Pluto, the various moons, comets, asteroids, and extra solar planets.

*Prerequisite:* Math at the level of MAGN 101.

3 credits (2 lecture hours, 2 laboratory hours), fall semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### ASTR 110 - STELLAR ASTRONOMY

This course studies stars, galaxies, and cosmology, constellations, the motions of the night sky, earth- and space-based telescopes, the nature of starlight, the classification, structure and evolution of stars and galaxies, distance scales, the large scale structure of the universe, cosmology, and extraterrestrial life.

*Prerequisite:* Math at the level of MAGN 101.

3 credits (2 lecture hours, 2 laboratory hours), spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

## AUTOMOTIVE SERVICE SPECIALIST

### AUOS 121 - AUTOMOTIVE CHASSIS SERVICE

Construction, operation, service and repair of the chassis. Laboratory exercises include lubrication, brakes, suspension, steering, tires, manual transmission and differential service.

5 credit hours (3 lecture hours, 6 laboratory hours), fall semester

### AUOS 127 - INTERNAL COMBUSTION ENGINES

Theory of the internal combustion engine including the fundamentals in nomenclature, measurement, wear analysis and repair procedures for all current automotive power plants. Laboratories focus on engine overhaul.

5 credit hours (2 lecture hours, 6 laboratory hours), spring semester

### AUOS 129 - AUTOMOTIVE FUNDAMENTALS

A study of the physical aspects of our environment and automotive machines in order to better understand and interact with them.

3 credit hours (3 lecture hours), spring semester

### AUOS 161 - AUTOMOTIVE CHASSIS SERVICE II

Designed to give the student extensive experience in the repair of front-wheel drive suspension and drive axle components, experience in 4-wheel alignment and experience in body panel and headlight adjustments.

*Prerequisite:* AUOS 121

5 credit hours (2 lecture hours, 6 laboratory hours), spring semester

### AUOS 254 - FUEL SYSTEM SERVICE

Principles, nomenclature, construction, operation and repair of fuel metering systems. Carburetors, electronic fuel injection and crossfire injection systems. PCM sensor inputs will be covered.

5 credit hours (2 lecture hours, 6 laboratory hours), fall semester

### AUOS 255 - EMISSION CONTROL SYSTEMS

Construction, operation and practices involved in controlling undesirable emissions (HC, CO and NO), resulting from the operation of gasoline engines.

3 credit hours (2 lecture hours, 6 laboratory hours, 9 weeks), fall semester

### AUOS 256 - EXHAUST & COOLING SYSTEM SERVICE

Care, operation, testing and repair of automotive cooling and exhaust systems.

2 credit hours (2 lecture hours, 6 laboratory hours, 6 weeks), fall semester

### AUOS 258 - ENGINE PERFORMANCE SERVICE

Application of basic principles, methods and procedures utilizing special tools for in-car diagnosis and engine repair. Includes TBI and PFI operations.

*Prerequisites:* AUOS 254, 255, 256

5 credit hours (2 lecture hours, 7 laboratory hours), spring semester

### AUOS 259 - AUTOMATIC TRANSMISSIONS

Laboratory practice in the rebuilding and service of the different automatic transmissions in and out of the vehicle.

*Prerequisites:* AUOS 129 and AUOS 121

5 credit hours (2 lecture hours, 6 laboratory hours), spring semester



## AUTOMOTIVE TECHNOLOGY FORD ASSET PROGRAM

### ASET 111 - INTRO TO AUTOMOTIVE SERVICE

This course covers the basic concepts and terms of automotive technology, work place safety, state inspections, pre-delivery, safety and environmental regulations, and use of service information resources. Topics include familiarization with automotive and shop components along with identification and proper use of various auto-motive hand and power tools. Upon completion, students should be able to describe terms associated with au-tomobiles, identify and use basic tools and shop equipment, and use information sources and conduct basic safety/emissions and/or PDI inspections.

**2 credits (64 hours combined lecture and laboratory), fall semester**

### ASET 112 – INTRO TO AUTO ELECTRICAL SYSTEMS

This course covers basic electrical theory and wiring diagrams, test equipment, and diagnoses/repair/replacement of batteries, starters, alternators and basic electrical accessories. Topics include diagnosis and repair of battery, starting, charging, lighting and basic accessory systems problems. Upon completion, students should be able to diagnose, test, and repair the basic electrical components of a car.

*Prerequisite: ASET 111*

*3 credits, (96 hours combined lecture and laboratory), fall semester*

### ASET 113 – INTRO TO BRAKING SYSTEMS

This course covers principles of operation and types, diagnosis, service, and repair of brake systems. Topics include drum and disk brakes involving hydraulic, vacuum boost, hydra boost, parking brake, anti-lock and electronic stability control systems. Upon completion, students should be able to diagnose, service, and repair various automotive braking system issues.

*Prerequisite: ASET 111, 112*

*3 credits (100 hours combined lecture and laboratory), fall semester*

### ASET 121 - ENGINE REPAIR

This course covers the theory, construction, inspection, diagnosis and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis/repair of automotive engines using appropriate tools, equipment, procedures, and service information.

*Prerequisite: ASET 113*

*3 credits (128 hours combined lecture and laboratory), spring semester*

### ASET 122 - ELECTRICAL & ELECTRONIC SYSTEMS

This course covers electrical theory and electronic systems, wiring diagrams, test equipment, and diagnosis/repair/replacement of electrical and electronic systems problems including networks and multiplexing. Upon completion, students should be able to use digital volt-ohm meters, oscilloscopes, Ford IDS test equipment, and repair automotive electrical and electronic components and systems.

*Prerequisite: ASET 113*

*4 credits (128 hours combined lecture and laboratory), spring semester*

### ASET 125 - COOPERATIVE TRAINING 1

A supervised field work program with the students' sponsoring Ford or Lincoln dealer under the supervision of an experienced technician that is certified in the specialties area covered during the previous semester. Work experience to take place during break between fall and spring semesters.

*Prerequisite: ASET 112,113*

*1 credit (2-3 weeks of combined experience), spring semester*

### ASET 160 - APPLIED ELECTRICITY & ELECTRONICS

The student will learn the rules governing basic direct current circuits and passive components, as well as the methods of measuring these properties. Fundamental analysis of basic automotive series and parallel circuits, and measurement with digital meters and oscilloscopes will be covered. Simple controlling elements such as basic relays, diodes and transistors used as switches will be examined. Practical troubleshooting using digital meters and oscil-loscopes (voltage drops,

current testing, and resistance checks) are covered.

*Prerequisite: ASET 112 or permission of instructor*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### ASET 211 - CLIMATE CONTROL

This course covers the theory of refrigeration and heating, electrical/electronic/pneumatic controls, and diagnosis and repair of climate control systems. Topics include diagnosis/repair of climate control components and systems, recovery/recycling of refrigerants, and safety and environmental regulations. Upon completion, students should be able to describe the operation, diagnose, and safely servicing of climate control systems using appropriate tools, equipment, and service information.

*Prerequisite: ASET 122*

*2 credits (64 hours combined lecture and laboratory), fall semester*

### ASET 212- STEERING & SUSPENSION SYSTEMS

This course covers principles of operation, types, and diagnosis/repair of suspension and steering systems to include steering geometry. Topics include wheel alignment angles and their dynamic properties, manual steering, hy-draulically assisted power steering, electronic power assisted steering systems along with standard and electronically controlled suspensions. Upon completion, students should be able to service and repair various steering and suspension components, check and adjust various alignment angles, perform NVH diagnosis and balance wheels.

*Prerequisite: ASET 122*

*3 credits (96 hours combined lecture and laboratory), fall semester*

### ASET 213- MANUAL TRANSMISSION & DRIVE TRAINS

This course covers the operation of and diagnosis/repair of manual transmissions/transaxles, clutches, drive shafts, axles, and final drives. Topics include theory of torque, power flow, and manual drive train service and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to explain operational theory and diagnose and repair manual transmissions and drive trains.

*Prerequisite: ASET 122*

*3 credits (80 hours combined lecture and laboratory), fall semester*

### ASET 222 - ENGINE PERFORMANCE

This course covers the principles of fuel delivery/management, exhaust/emission systems, electronic engine control and procedures for diagnosing and restoring engine performance using appropriate test equipment. Topics include procedures for diagnosis and repair of fuel delivery/management and emission systems, Ford GTDI injection, basic Ford diesel performance and using appropriate service information and equipment to aid in diagnosis. Upon completion, students should be able to describe, diagnose, and repair engine fuel delivery/management and emission control systems using appropriate service information and diagnostic equipment.

*Prerequisite: ASET 121 and 122*

*4 credits (128 hours of combined lecture and laboratory), spring semester*

### ASET 215 – ASSET COOPERATIVE TRAINING 2

A supervised fieldwork program with students' sponsoring Ford or Lincoln dealer under the supervision of an experienced technician that is certified in the specialties area covered during the previous semester. Work experience to take place during break between spring and fall semesters.

*Prerequisite: ASET 121 and 122*

*4 credits (10-12 weeks of combined experience), fall semester*

### ASET 221 - AUTOMATIC TRANSMISSIONS

This course covers operation, diagnosis, service and repair of automatic transmissions/transaxles. Topics include hydraulic, mechanical, and electrical/electronic operation of automatic transmissions and transaxles and the use of appropriate service tools and equipment. Upon completion, students should be able to explain operational theory and diagnose and repair automatic transmissions and transaxles.

*Prerequisite: ASET 122*

*4 credits (128 hours combined lecture and laboratory), spring semester*

### ASET 225 - CO-OPERATIVE TRAINING 3



A supervised field work program with students' sponsoring Ford or Lincoln dealer under the supervision of an experienced technician who is certified in the specialties area covered during the previous semester. Work experience to take place during break between fall and spring semesters.

*Prerequisite: ASET 211, 212, 213*

*1 credit (2-3 weeks of combined experience), spring semester*

## AUTOMOTIVE TECHNOLOGY TRADITIONAL PROGRAM

### AUTO 100 - INTRODUCTION TO AUTO TECH

This course covers the basic fundamentals of automotive chassis. It will include wheels, tires, brakes, steering and suspension alignment.

*1 credit (2 lecture hours, 4 laboratory hours), permission of instructor required*

### AUTO 102 - METALS

Characteristics and properties of metals, metallurgy, fabrication, oxyacetylene and arc welding. TIG and MIG welding and other industrial processes.

*3 credits (1 lecture hour, 2 laboratory hours, 1 hour recitation)*

### AUTO 103 - INTERNAL COMBUSTION ENGINES I - THEORY

Operating principles and nomenclature of internal combustion engines used as automotive power plants. Laboratory emphasis is on technician level analysis and repair of mechanical components.

*3 credits (2 lecture hours, 3 laboratory hours)*

### AUTO 104 - BASIC AUTOMOTIVE ELECTRICAL SYSTEMS

Direct and alternating current circuits, magnetism, inductance, electrochemical action, and semiconductors. Introduction to automotive wiring diagrams, using voltage, amperage, and resistance measurements to troubleshoot opens, shorts, and excess resistance problems in basic DC circuits. Introduction to automotive cranking and charging systems.

*3 credits (2 lecture hours, 3 laboratory hours), fall or spring semester*

### AUTO 105 - CAR AND LIGHT TRUCK DIESEL FUNDAMENTALS

This course explores the operation and service of modern car and light truck diesel engines. Principles and theories are studied by running, testing, disassembling, and reassembling components, systems and engines.

*2 credits (2 lecture hours, 2 laboratory hours), spring semester, meets for 10 weeks.*

### AUTO 109 - CHASSIS ANALYSIS I

Construction, operation and repair of modern chassis components. Including: Brakes (disc, drum, diagonal, quick take-up, and anti-lock); Suspensions (coil, leaf, McPherson, wishbone, and active); Steering systems including: linkage and rack & pinion. Tires, wheels and bearings.

*4 credits (3 lecture hours, 3 laboratory hours), fall semester*

### AUTO 110 - SUMMER WORK EXPERIENCE

Work experience of at least 10 weeks in a transportation/mechanical area between the first and second year. Report will be due before the 10 week of the fall semester. A student may receive credit for this course from prior academic experience given appropriate articulation agreement.

*3 credits*

### AUTO 138 - CAREER AWARENESS

Introduction to the complex and diverse automotive industry. Guest speakers will discuss the many career opportunities as well as the requirements for today's technicians.

*1 credit hour (1 lecture hour), A student may receive credit for this course from prior academic experience given appropriate articulation agreement.*

### AUTO 155 - INTERMEDIATE AUTOMOTIVE ELECTRICITY & ELECTRONICS

Application of the principles of electricity to the Diagnosis, operation, service, and repair of automotive electrical and electronic systems troubleshooting,

battery, starting, Charging, and accessory circuits with multimeters, labsopes, and scan tools is emphasized.

*Prerequisite: AUTO 104 or ASET 103 or permission of instructor*

*3 credit hours (2 lecture hours, 3 laboratory hours), spring semester*

### AUTO 171 - AUTOMOTIVE DRIVETRAINS

This course introduces the automotive student to the theory and repair of modern automotive drive trains. Emphasis is given to testing drivetrain system components to determine faults prior to removal from the vehicle. Topics include automatic transmissions, manual Transmissions, four wheel drive systems, all-wheel drive systems and final drive systems. Lecture and laboratory assignments are combined to give the students both theory and hands on experience.

*Prerequisites: AUTO 109, Auto 104 or Instructor Permission*

*3 credits (2 lecture hours, 3 laboratory hours), fall/spring semester*

### AUTO 202 - AUTO BODY FUNDAMENTALS

Construction, damage analysis, and repair of the modern automobile. Basic sheet metal repair, refinishing systems, panel adjustments, trim panel removal, plastic repair, and restraint systems.

*Prerequisite: AUTO 102*

*3 credits (2 lecture hours, 1 recitation hour, 2 laboratory hours), fall semester*

### AUTO 203 - INTERNAL COMBUSTION ENGINES II

Practical experience in automotive engine rebuilding. Application of basic physical and thermodynamic principles in engine design. Laboratory emphasis is on utilization of special equipment involved in the rebuilding process.

*Prerequisite: AUTO 103 and permission of instructor*

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

### AUTO 204 - AUTOMOTIVE ELECTRONIC SYSTEMS

Application of the principles of diagnostics to the design, operation, service and repair of today's sophisticated computerized automotive systems. Troubleshooting problems with the ignition system, sensors, and networks with multimeters, labsopes, and scan tools is emphasized

*Prerequisites: AUTO 103, AUTO 104, or permission of instructor.*

*Co-requisite: AUTO 205*

*3 credits (2 lecture hours, 3 laboratory hours), fall semester*

### AUTO 205 - ELECTRONIC FUEL SYSTEMS

Principles of service and repair of automotive fuel systems including TBI, PFI, SFI, EFI and pump circuits, together with the relationship of design as it affects service and repair.

*Prerequisites: AUTO 103, 104, and permission of instructor.*

*Co-requisite: AUTO 204*

*3 credits (2 lecture hours, 3 laboratory hours), fall semester*

### AUTO 209 - CHASSIS ANALYSIS II

Designed to give the student detailed instruction in the diagnosis and repair of modern suspension, steering and brake systems and in the troubleshooting and repair of 4-wheel alignment systems. On car brake lathe and road force balance machines included.

*Prerequisites: AUTO 109*

*Co-requisite: AUTO 102, AUTO 104*

*4 credits (2 lecture hours, 1 recitation hour, 3 laboratory hours), spring semester*

### AUTO 255 - DRIVABILITY & PERFORMANCE PROBLEMS

Methods and procedures used in the diagnosis and correction of performance issues, using advanced test equipment. Laboratory practice to ensure a degree of occupational proficiency.

*Prerequisites: A grade of C or better in AUTO 204, AUTO 205, and permission of the instructor.*

*Pre- or Co-requisite AUTO 155*

*5 credits*

### AUTO 259 AUTO BODY NON-STRUCTURAL REPAIR AND REFINISHING

Designed to give the student extensive hands-on experience necessary to

develop the skills required to repair collision damage to the modern unibody vehicle. Includes identification and analysis of damage as well as advanced repair and refinishing techniques.

*Prerequisite: Must pass AUTO 202 with a grade of C or better and permission of instructor.*  
5 credits (2 lecture hours, 7 laboratory hours), spring semester

### **AUTO 260 – AUTO AIR CONDITIONING & REFRIGERATION RECOVERY**

Introduction to the theory, operation, service, repair and diagnosis of factory installed air conditioning.

1 credit (1 lecture hour, 2 laboratory hours), 8 weeks, fall semester

### **AUTO 261 - AUTOMOTIVE AIR CONDITIONING & HEATING**

Basic principles, nomenclature and operation as applied to the automotive air-conditioning and heating units. Labs prepare students for required certification in the handling of refrigerant as well as repairs.

3 credit hours (2 lecture hours, 3 laboratory hours), spring semester

### **AUTO 269 – ADVANCED AUTO BODY REFINISHING & STRUCTURAL MEASUREMENT**

This course covers techniques required to properly repair multi-coat paint finishes, including spot and panel painting with HVLP spray equipment, fundamentals of color perception, color, light sources and tinting. It will also cover structural and non-structural analysis and collision repair of Unibody vehicles.

*Prerequisite: Must pass AUTO 259 with a grade of C or better and permission of instructor.*  
5 credits (2 lecture hours, 8 laboratory hours), fall semester

### **AUTO 279 – AUTO BODY STRUCTURAL REPAIR**

This course covers techniques required to properly analyze and repair Unibody and full frame collision damage. It will also include extensive hands-on experience for increased employability in many segments of the collision industry.

*Prerequisite: Must pass AUTO 269 with a C or better and permission of the instructor.*  
6 credits (2 lecture hours, 12 laboratory hours) spring semester

### **AUTO 309 - ADVANCED AUTOMOTIVE CHASSIS**

This course contains information about construction and geometry of modern automobile suspension systems. Topics include introduction to metallurgy, suspension design, suspension angles and future trends. The laboratory requirements include a group project, related to automotive vehicle steering and suspension. A laboratory practicum will be required in which the student will assist instructors in developing a training aid and presentation for class.

*Prerequisite: A.A.S. in Automotive Technology or successful completion of the first 2 years of the BT program with a minimum of a "C" in Auto 109 & 209 or equivalent.*  
4 credits (2 lecture hours, 3 laboratory hours & laboratory practicum).

### **AUTO 355 - ADVANCED AUTOMOTIVE DIAGNOSTICS**

This course focuses on automotive troubleshooting techniques and tools. Emphasis will be placed on diagnosing engine performance conditions related to mechanical, fuel injection, ignition, and emissions systems. Diagnosis of other computer controlled and networked automotive systems will also be covered. It includes theory of system operation with an emphasis on comprehension and systematic troubleshooting. Included is an emphasis on hands-on practice and familiarity with factory and aftermarket scan tools, and automotive labscopes.

*Prerequisite: A.A.S. in Automotive Technology or successful completion of first 2 years of BT*  
3 credits (2 lecture hours, 3 laboratory hours)

### **AUTO 359 - COLLISION & BUSINESS MANAGEMENT**

This course covers the operation and management of modern auto body collision repair facilities. Topics covered include: safety and environmental issues, terminology, duties of collision shop personnel, cost control, tools and equipment, collision estimating and shop layout. It also covers interaction with insurance companies, auto body products suppliers, new and recycled parts suppliers and mobile specialty repair businesses.

*Prerequisite: A.A.S. in automotive or permission of instructor*  
3 credits (2 lecture hours, 3 laboratory or field trip hours)

### **AUTO 360 - AUTOMOTIVE SHOP MANAGEMENT & SUPERVISION**

Practicum in shop management. Practical experiences in demonstrating leadership skills, problem-solving skills, motivational skills, goal setting, time management, counseling, implementing policy and procedures, conducting meetings, implementing codes of conduct, enhancing professional ethics, interfacing with customers, conflict resolution and dealing with personnel issues in the workplace, such as sensitivity skills, harassment issues and stress management.

*Prerequisite: BSAD 116*

3 credits (2 lecture hours, 3 laboratory hours)

### **AUTO 371 - ADVANCED POWERTRAIN MANAGEMENT**

This course describes performance and design features, as well as diagnosis and repair procedures for the modern automatic transmissions. Emphasis is given to understanding electrical/electronic controls and the proper use of electrical/electronic test equipment. Disassembly and reassembly of the transmission enables the students to understand and visualize the mechanical and hydraulic components.

*Prerequisite: A.A.S. in Automotive Technology/successful completion of first 2 years of BT*  
3 credits (2 lecture hours, 3 laboratory hours)

### **AUTO 380 - AUTOMOTIVE PARTS INVENTORY MANAGEMENT & MERCHANDISING**

Fundamentals of computer-based parts inventory and P.O.S. systems. Inventory management, core procedures, warranty claims, remanufactured vs. rebuilt parts, team concept of parts and repair departments, customer assistance, marketing strategy, sales techniques, identifying customer base, merchandising, and forecasting business with analysis of profit and loss statements.

*Prerequisite: BSAD 112 and AUTO 360*

3 credits (2 lecture hours, 3 laboratory hours)

### **AUTO 400 - AUTOMOTIVE FLEET MAINTENANCE**

An overview of all automotive repair tasks will be reviewed. Analysis of pertinent tasks for fleet maintenance will emerge and be coupled with labor and price guides time on task evaluations, absolute necessity, intervals of inspection, safety concerns, failure records, component life cycles and environmental issues. Further analysis will reveal decision-making process for in-house repairs or out-sourcing component failure records and vendor responsibilities will be discussed along with fleet discount structure and avenues of saving time, inventory and other overhead to ultimately make the organization efficient. Record-keeping systems and the development of a fleet maintenance log will be implemented. Written report will include a fleet maintenance guide.

*Prerequisite: AUTO 360*

3 credits (2 lecture hours, 3 laboratory hours)

### **AUTO 420 - AUTOMOTIVE INDUSTRY INTERNSHIP ORIENTATION**

This course is designed to orient the student for successful completion of their internship. The orientation process will assist the student in developing a realistic time-line, to prepare him or her for meeting the responsibilities of an intern and exposing him or her to the various forms and reports related to the internship.

*Prerequisite: AUTO 360*

1 credit

### **AUTO 421 - AUTOMOTIVE INDUSTRY INTERNSHIP**

This course is based upon work experience acquired at a pre-approved manufacturer, dealer, distributor, repair facility, or other location with permission in Internship Program Coordinator. Orientation sessions must be completed the semester prior to the internship. The work experience must have employer and program coordinator approval and will include a problem-centered project planned in joint agreement with the employer, student and coordinator and be presented as a written term paper.

*Prerequisites: Successful completion of required courses, permission of Internship Program Coordinator, completion of orientation sessions (AUTO 420)*

12 credits (1 lecture hour, 15-week internship)

## BIOLOGICAL SCIENCE

### BIOL 101 - Introduction to Biology

This course provides a basic introduction to biological principals for non-biology related majors. Lecture topics in this course include: introduction to science, the chemistry of life, cellular organization of life, heredity and natural selection, biological diversity, and population and community ecology. The lab covers a variety of techniques and tools related to the investigation of selected topics in biology.

*4 credits (3 lecture hours, 2 laboratory hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### BIOL 102 - BOTANY, FORM & FUNCTION OF SEED PLANTS

Structure and function of higher vascular plants, with emphasis on cell structure, photosynthesis and respiration, anatomy, physiology, reproduction and Mendelian genetics.

*3 credits (2 lecture hours, 2 laboratory hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### BIOL 103 - BOTANY: PLANT DIVERSITY

An evolutionary survey of the plant kingdom with emphasis on the structure, life cycles, and significance of non-vascular and lower vascular plants.

*Prerequisite: BIOL./ENSC 102 or permission of instructor.*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### BIOL 105 - HUMAN BIOLOGY

A course for non-majors that focuses on human structure, function, diseases and current health topics. Emphasis is on each of the organ systems. Included are lecture discussions on cancer, heredity, genetic engineering, cloning and evolution.

*3 credits (3 lecture hours), fall or spring semester*

*Students planning to transfer BIOL 105 as a science course or continue to additional biology courses including BIOL 120, enroll in the lab BIOL 105L.*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### BIOL 105L - HUMAN BIOLOGY LABORATORY (optional)

An optional laboratory course that provides experiences to emphasize the biological concepts behind the lecture topics of Human Biology.

*Prerequisite or Co-requisite, BIOL 105.*

*1 credit, (2 laboratory hours), fall or spring semester*

*This course counts towards the Liberal Arts and Sciences requirement and the SUNY General Education Re-quirement for Natural Science*

### BIOL 107 - TOPICS IN CONTEMPORARY BIOLOGY

This course covers selected topics in Biology currently in public focus. The understanding and use of the scientific method is stressed. Students will apply their understanding of the scientific method while examining topics such as bioterrorism, stem cell research, and the human genome project and cancer biology. This course is primarily for non-science majors. (Actual topics change each semester).

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### BIOL 120 - GENERAL BIOLOGY I

This course provides the first half of a typical two-semester sequence for biology-related majors. Topics in this part of the sequence are: organization of life, chemistry of living things (including cellular respiration and photosynthesis), cell biology and biological membranes, heredity and reproduction (including mitosis, meiosis and Mendelian genetics), molecular genetics, evolution and ecology. The lab covers a variety of procedures and microscopic studies applied to selected animals and plants. A variety of laboratory techniques and procedures relative to the study of selected plants, animals and microbes is also

covered.

*Prerequisite: Placement in BIOL 120 or higher, or successful completion of BIOL 101 or BIOL 105 & 105L with at least a C-.*

*4 credits (3 lecture hours, 2 laboratory hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### BIOL 121 - GENERAL BIOLOGY II

This course is a continuation of BIOL 120, and assumes mastery of the material covered in it. This second half of the sequence covers: taxonomy of plants and animals, viruses and bacteria, fungi, seedless and seed plants (including plant structure and physiology), animal diversity (an overview of animal phyla), and animal structure and function (including all the life functions and body systems with emphasis on the human).

*Prerequisites: BIOL 120 with a C- or better*

*4 credits (3 lecture hours, 2 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### BIOL 135 - MYOLOGY I

The study of the muscles of the body; specifically the muscles of the head, neck and trunk with superficial and postural muscles emphasized. The actions of major muscle groups, origin and insertion of each muscle as well as the physical location via palpation. Nerve innervation will be discussed. Students will practice muscle palpation and muscle testing.

*Pre- or Co-requisite: BIOL 150*

*3 credits (2 lecture hours, 3 laboratory hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### BIOL 136 - MYOLOGY II

This course continues the study of the muscular system with emphasis on the muscle groups and muscles of the extremities. Discussion will focus on the origins, insertion sites and functions of the muscles. Muscle testing will also be included.

*Prerequisites: BIOL 135 with a grade of C or better*

*Pre- or Co-requisites: BIOL 151*

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### BIOL 137 - NEUROLOGY

A detailed study of the nervous system including nerve origin, insertion and function. Topics include the anatomy and physiology of the nervous system including the brain and cranial nerves, spinal cord, nerves and plexuses, and the sensory, motor and autonomic nervous system. The laboratory component is composed of hands-on exercises including computer simulation, physiological testing, and nerve tracing as well as identification of anatomical structures on specimens, models, and microscopic slides.

*Prerequisites: BIOL 151 with a C- or better*

*4 credits (3 lecture hours; 2 laboratory hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### BIOL 150 - HUMAN ANATOMY & PHYSIOLOGY I

Structure and function of the human body (a systems view). Covers: cells, tissues, skeletal, muscular and nervous systems. The lab includes practical experience with lecture topics including animal dissection.

*Prerequisite: placement in BIOL 120 or higher or completion of BIOL 101 or BIOL 105 & 105L with at least a C-.*

*4 credits (3 lecture hours, 2 laboratory hours), fall and spring semesters*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### BIOL 151 - HUMAN ANATOMY & PHYSIOLOGY II

Structure and function of the human body (a systems view). Covers: endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. The lab includes practical experience with lecture topics and dissection

of animals.

*Prerequisite:* BIOL 150 with a C- or better,

*4 credits (3 lecture hours, 2 laboratory hours), fall and spring semesters*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### **BIOL 230 - HUMAN GENETICS**

Introduction to the study of heredity and developmental genetics of the human organism. History, problem-solving and statistical methods will be studied as well as contemporary social and ethical problems.

*Prerequisites:* BIOL 120, or BIOL 150 with a minimum grade of C-

*3 credits (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### **BIOL 250, 251, 252 - BIOLOGY DEPARTMENT INTERNSHIPS I, II, III**

A supervised internship to be undertaken in the summer or between semesters by students majoring in biology, medical laboratory technology, sports nutrition and fitness management or health-related transfer programs. Preparation for the internship will commence in the semester prior to the actual internship. A written and oral report of the internship will be presented. (Students who have completed Allied Health Partnership programs, New Visions, or similar academic internships may use their portfolios to satisfy the requirements of

BIOL 250, 251, 252).

*Prerequisite:* Full-time enrollment in a Biology/Chemistry Department program. Satisfactory completion of at least the first semester of course work in the major; a GPA of at least 2.5 and no less than a C in all courses required in the student's program.

*1 credit per course number. The number of courses to be determined by the supervising Biology Department faculty member. Fall, spring or summer*

### **BIOL 260 - PRINCIPLES OF ZOOLOGY**

This course offers a basic introduction to the animal kingdom, including specific studies pertaining to terrestrial and aquatic invertebrates and vertebrates. Emphasis on zoological organization, identification, structure and life histories.

*Prerequisite:* Successful completion of BIOL 120 or an animal life science course, from the School of Agriculture, with at least a C- or better, Environmental & Natural Resource Conservation and Natural Resources Conservation students by permission of instructor.

*4 credits (2 traditional lecture hours plus 1 lecture hour with a 2-hour laboratory)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### **BIOL 280 - HERPETOLOGY**

Herpetology is a course designed to investigate the thermal physiology, taxonomy, distribution and natural history of reptiles and amphibians. Emphasis is placed on local forms. Techniques of field identification, collection and preservation are covered in the laboratory component.

*Prerequisite:* Grade of 'C' or better in BIOL 120, or General Ecology NATR 101.

*3 credits (2 lecture hours, 4 laboratory hours) spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### **BIOL 285 - GENERAL MICROBIOLOGY**

The biology of microscopic organisms including bacteria, fungi, protozoa, algae, and viruses. An introduction to basic principles of microbiology, with an emphasis on morphology, classification, cultivation, growth, physical, and chemical controlling agents, antibiotics, host-parasite interactions, and the benefits of microorganisms including genetic engineering applications. The lab includes proper technique in observation, identification of microbes, and reactions under various physical and chemical conditions.

*Prerequisite:* Placement in BIOL 120 or higher or one semester of a college-level biology course (ex. BIOL 105 with at least a C-).

*4 credits (3 lecture hours, 2 laboratory hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### **BIOL 300 - BIOLOGY OF NORMAL & NEOPLASTIC CELLS**

The biology of normal and tumor cells will be examined using current data from population, macroscopic, microscopic, and molecular perspectives. Cell biology topics include cell chemistry, basic genetic mechanisms, internal organization and physiology of the cell, and cell-cell interaction. The cancer biology portion of the course will examine these topics as they occur in neoplastic cells, along with epidemiology, heredity, causation, diagnosis, treatment, and prevention.

*Pre-requisite:* Completion of college biology course (BIOL 120 or higher) with lab, or D.ANS 120, or E.SCI 110 with grade of C or better.

*3 credits (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### **BIOL 301 - PATHOPHYSIOLOGY**

This course is designed to increase the student's understanding of human diseases caused by alteration of physiologic processes. Emphasis is on advanced pathophysiologic mechanisms and manifestations of disease across the lifespan including genetic and cultural variations.

*Prerequisites:* C- or better in BIOL 151 or E.SCI 430 and BIOL 285

*3 credits (lecture hours)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### **BIOL 302 - EPIDEMIOLOGY**

The purpose of this course is to introduce the student to key concepts and methods of descriptive and analytical epidemiology. The utilization of epidemiology by the health profession in culturally diverse populations is reviewed. Disease occurrences and patterns of disease entities including their progression will be examined. Application of epidemiological information will be stressed as well as its relationship to health promotion and disease prevention. Students will utilize critical thinking skills to correlate cause, frequency and distribution of disease processes to infection control, health planning and health policy intervention. Case findings surveillance and screening by health professionals is discussed. Assessing the validity and reliability of health care literature and research studies and its application to epidemiology is also covered.

*Prerequisites:* C- or better in BIOL 285 and MATH 141, MATH 123, BSAD 221, or other statistics *3 credits (3 lecture hours) fall semester*

*3 credits (3 lecture hours) fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### **BIOL 405 - BASIC IMMUNOLOGY**

This course is an introduction to the field of immunology for both majors and non-majors. Students will gain an understanding of how the human immune system guards against disease. Included are lecture/discussions on the components of the immune system, how these components interact, and the end results of these interactions. Relevant clinical topics, such as allergy, autoimmune disease, immunodeficiency diseases (including AIDS), organ transplantation, and cancer will also be discussed.

*Prerequisites:* C- grade or better in the lecture and lab of a college-level biology course (BIOL 120 or higher) with a lab.

*3 credits, fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

## **BREWING**

### **BREW 100 - OVERVIEW OF BREWING SCIENCE & TECHNOLOGY**

This introductory course introduces students to the basic methodologies that produce beer and the metrics and procedures by which beer quality is analyzed. Upon completion of this course students will be able to describe the processes of beer manufacturing and explain the roles of different quality procedures as they reflect in a finished product. Special focus will be given to the language of brewing and the determining characteristics of beer ingredients.

*3 credits, (3 lecture hours)*



### BREW 300 – SENSORY EVALUATION & BEER STYLES

This course instructs students in beer styles and evaluation. Topics include: palate matching; off-flavor analysis; flavor-based ingredient evaluation; beer styles of America, Germany, Belgium & Great Britain; and style-based ingredient composition. Upon completion of this course students will be able to distinguish between beer styles, determine off flavors, describe culturally specific ingredients as well as preparation for the Certified Beer Server exam. Students will be required to sample beers, and to facilitate this a \$50 course fee will be assessed.

*Prerequisites:* BREW 100.

*3 credits, (3 lecture hours)*

### BREW 350 – PRACTICUM 1: CELLAR MANAGEMENT & BREWERY PROCESSES

This practicum course focuses on the maintenance and sanitation of the brewery, brewhouse and production space as well as the production of wort. Upon completion of this course students will be able to produce wort in 1/2 bbl and 3.5 bbl batches and maintain appropriate sanitation in the brewery.

*Prerequisite:* BREW 100 Overview of Brewing Science & Technology

*3 credits (6 lab hours), fall or spring semester.*

### BREW 410 – RAW MATERIALS & MALTING

This course instructs students in key elements of ingredient use and selection as they pertain to brewing. Topics include: barley selection for malting and the malting process; flavor, aroma and biological outcomes of malting; hop cultivation, growth and measurement; hop selection; water chemistry and waste water management; and spices adjuncts and chemicals in brewing. Upon completion of this course students will be able to design specific beer styles based on ingredient selection that includes malt, hops, water profile and yeast strain to achieve specific flavor outcomes.

*Prerequisite:* BREW 100

*3 credits (3 lecture hours)*

## BUSINESS ADMINISTRATION

### BSAD 100 - BUSINESS IN THE 21ST CENTURY

An introduction to the essentials of American business is provided to students who have little familiarity with business or who may be considering a career in business. The course will explore broad areas of business such as entrepreneurship, forms of business organization operations management, marketing, money and banking, financial management, securities markets, human resources management, international business, and career opportunities in each field.

*3 credits, (3 lecture hours), fall or spring semester*

### BSAD 102 - MATHEMATICS OF BUSINESS

This course incorporates the development of arithmetical tools in the mechanics of computation and the fundamentals of problem solving. Emphasis is on the application of acceptable business procedures. Topics include percent, invoicing, cash and trade discounts, principles of markup and markdown, payroll, simple interest, compound interest, consumer loans, property taxes, and insurance.

*Pre or co-requisite:* MAGN 101

*3 credits (3 lecture hours), fall or spring semester*

### BSAD 104 - ORGANIZATIONAL BEHAVIOR

Introduction to organizational behavior and human relations with emphasis on developing skills in dealing with human behavior, particularly as it exists in business organizations. Motivation, leadership, communications, group behavior, organizational change, personality, negotiation and conflict management are topics covered in this course.

*3 credits (3 lecture hours)*

### BSAD 107 - LEGAL & REGULATORY ASPECTS OF GAMING & HOSPITALITY

The course examines the legal aspects of operating a casino/resort with particular attention to liability, personal and property liability, labor laws, crimes, torts, evictions and negligence. Also an examination of the laws and regu-

lations particular to the gaming industry are explored with specific emphasis on the history and development of regulations in the casino industry as well as requirements for gaming licenses.

*3 credits, fall semester*

### BSAD 108 - BUSINESS LAW I

This course incorporates the fundamental concepts of the law of business and commerce important to business. Contracts, agency, and negotiable instruments with emphasis on the Uniform Commercial Code become part of the course. An introduction to legal reasoning and the legal approach to business problems play an important role.

*3 credits (3 lecture hours), fall or spring semester*

### BSAD 109 - PERSONAL FINANCE

This course covers the basic concepts relating to lifetime financial planning including setting financial goals, measuring financial performance, budgeting, reducing taxes, evaluating savings programs, acquiring and using credit, evaluating housing options, understanding insurance needs, and examining various types of investment opportunities including stocks, bonds, mutual funds, and estate planning.

*3 credits (3 lecture hours)*

### BSAD 112 - MARKETING

An introductory course that provides insight into marketing techniques in a dynamic environment. Corporate, small business, not-for-profit and for profit business marketing are all discussed. Marketing terms and functions are a necessary part of the course. In addition survey construction and analysis are performed and students demonstrate knowledge of branding and packaging via presentations.

*3 credits (3 lecture hours), fall or spring semester*

### BSAD 116 - BUSINESS ORGANIZATION & MANAGEMENT

This course covers the introduction to concepts of management, development of management thought, and management environments. Special emphasis is placed on the functions of managers including planning and decision making, organizing and staffing, leading, motivating, communicating, and controlling. Review of social responsibility management ethics, and workplace diversity is covered.

*Pre-requisites:* COMP 100, CITA 101 or CITA 110 or OFFT 100 and OFFT 109, or HORT 110 or HORT 111, or permission of instructor.

*3 credits (3 lecture hours), fall or spring semester*

### BSAD 117 - INTRODUCTION TO ENTREPRENEURSHIP

The objective of this course is to establish a basic understanding of the entrepreneurship process. Today's successful entrepreneurs need more than just a good idea. This course will introduce the student to the entrepreneurial mindset and explore entrepreneurial opportunities. The student will be exposed to a brief overview of the various steps involved to bring an idea to reality. The class will incorporate several case studies and guest lecturers to expose the student to real life entrepreneurial situations.

*3 credits, 3 lecture hours*

### BSAD 140 - BUSINESS COMMUNICATIONS

Fundamentals of effective English in written and oral business communications are discussed. Planning and writing effective business letters and memos, letters of application and resume, sales, credit collection, inquiry, order, acknowledgment, claims adjustments, and personnel letters are covered. Gathering and presenting information for reports in written and oral form through research, interviewing, questionnaires, and conferences are presented. The course includes discussion and topics such as understanding the impact of international business teamwork, technology, and multiculturalism on business communications.

The course further incorporates networking as well as teamwork opportunities.

*Prerequisite:* COMP 101 with a C or better

*3 credits (3 lecture hours), fall or spring semester*

### BSAD 203 - BUSINESS LAW II

This course is an in-depth study of business organizations including sole



proprietorship, partnerships, limited liability companies and corporations. Basic concepts of property law including personal property (both tangible and intangible), intellectual property (including Internet issues), real property and securities regulation are covered.

*3 credits (3 lecture hours), fall or spring semester*

#### **BSAD 206 - PROMOTION MANAGEMENT**

Principles, concepts and techniques of personal selling, advertising, sales promotion, publicity, and public relations are covered in the course. The course develops the nature and role of promotion, marketing and management of the promotion program. The practice of promotion in a changing environment is an important aspect of this course.

*Prerequisites: BSAD 100 or 112 or permission of instructor*

*3 credits (3 lecture hours)*

#### **BSAD 208 - INTRODUCTION TO TOTAL QUALITY MANAGEMENT**

This course introduces students to the philosophy, concepts, and practices of total quality leadership. The course will introduce students to total quality philosophy and concepts, total quality teams, problem-solving and decision-making techniques and tools used in total quality and the total quality focus on customers.

*Prerequisites: BSAD 100 or 116 or permission of instructor*

*3 credits (3 lecture hours)*

#### **BSAD 209 - SALESMANSHIP**

This course introduces students to the professional, trust-based sales process. Students will learn what is required to initiate, develop, acquire, and enhance customer relationships in the sales process. Topics include: earning trust, effective sales dialogue, communication and presentation development, creating value for customers and sales ethics. Students present team based sales presentations at the end of the semester.

*3 credits (3 lecture hours), spring semester*

#### **BSAD 212 - PRINCIPLES OF FINANCE IN MANAGEMENT**

A first course in finance, which develops an understanding of the links between economic theory, management theory, and the practical managing of the financial aspects of any organization are part of the course. Sources of money and credit for businesses, agriculture units, consumers, governments, and charitable institutions are related topics.

*Prerequisites: BSAD 100 or permission of instructor*

*3 credits (3 lecture hours)*

#### **BSAD 215 - HUMAN RESOURCE MANAGEMENT**

Human Resource principles and tools useful to any employee or prospective manager are part of this course. Additional topics include manpower needs, recruitment, selection, performance evaluation, personal development, compensation and benefits, the development and influence of labor unions and collective bargaining, public policy and laws in the labor and Human Resource Management field, and reconciliation of varying viewpoints. This course uses a case approach.

*3 credits (3 lecture hours), fall or spring semester*

#### **BSAD 216 - CURRENT PROBLEMS IN HUMAN RESOURCE MANAGEMENT**

This course introduces students to contemporary problems in Human Resource Management. Issues include AIDS testing, alcohol abuse, and sexual harassment problems in the workplace. The course is designed to allow students to critically analyze the relevant issues encompassed in contemporary business topics and problems.

*3 credits (3 lecture hours)*

#### **BSAD 220 - INVESTMENTS**

The course will provide the student with an understanding of the nature of the investment process. Students will grasp a fundamental understanding of portfolio management, asset allocation, risk assessment, the securities market and exchanges, equity and debt securities, and margin, futures and option trading. Students will have the opportunity to prepare and present a portfolio of investments.

*3 credits (3 lecture hours)*

#### **BSAD 221 - BUSINESS STATISTICS**

This course covers the principles and methods of elementary statistics theory and methodology with an understanding of the role of statistics in business and practical affairs. Emphasis is on using statistical methods as an analytical tool. Topics covered include sources of basic data, tabular and graphic presentation, frequency distributions, averages, measures of dispersion, probability, sampling methods, confidence intervals, hypothesis testing, and, simple regression. Focus is on computerized calculations using Excel, and case studies. A background in Excel is recommended strongly.

*Prerequisite: CITA 101 or OFFT 220 or OFFT 110 and MAGN 101, or permission of instructor.*

*3 credits (3 lecture hours), fall or spring semester*

#### **BSAD 224 - MANAGING DIVERSITY IN THE WORKPLACE**

This entry-level management course explores the impact that a culturally diverse work force has on a business, industry and global/international environment. The course illustrates the manager's role/responsibility in managing a culturally diverse work force and develops student awareness and understanding of the role of culture, values, social behavior and politics in managing diverse groups of employees.

*3 credits (3 lecture hours)*

#### **BSAD 225 - INTERNATIONAL BUSINESS**

This course examines the importance of: cultural understanding; international economics including current fiscal policy; international trade agreements and their effect on the American economy. The course will pay special attention to both the fiscal and human effects of new alliances and the influence on the future of American agriculture, production, banking, finance, communication, and professional services including the legal and medical profession. The American involvement in the growth of multi-international corporations focusing on American ventures in such areas as production and distribution will be discussed.

*3 credits (3 lecture hours)*

#### **BSAD 226 - INTERNATIONAL MARKETING**

This course emphasizes the importance of social, cultural, economic, political, and geographical concerns that international marketers have to deal with when marketing products in other countries. The effects of national policies, political elections and legal systems are discussed. Understanding the contribution that businesses make to underdeveloped nations and understanding trade restrictions are discussed in this course. Risk assessment of developing businesses in areas is evaluated in this course.

*3 credit hours (3 lecture hours)*

#### **BSAD 291 - STUDENT INTERN PROGRAM IN BUSINESS**

A field-based internship experience provides majors in the Department of Entrepreneurship and Business an opportunity to apply their knowledge in business situations. Students will work 125 hours at an approved business in the areas of accounting, finance, management, and marketing, and their work will be coordinated through a faculty member. Students will work on a business project/problem for the business.

*3 credits*

#### **BSAD 295 - BUSINESS MANAGEMENT AND DECISION MAKING**

The course explores business strategy from two perspectives: Theoretical and practical. At the theoretical level, the student will examine the strategic discourse – a rich exchange of competing ideas, highlighted with conceptual foundation of business, management, and contemporary decision-making. The “knowing” part involves learning concepts and techniques applicable to business administration and strategic management. The “doing” part of the course involves the student's participation in Capsim Foundation®, a strategic management simulation. This simulation provides the student with the opportunity to acquire hands-on experience in managing a business as a member of a “senior management” team. This course allows students to participate in a computer application that simulates activities of a real business. In addition to experiential learning of business management decision-making competencies using the simulation, there will be emphasis on ethics and ethical decision-making in various func-

tional areas, and on career portfolio preparation. This course is recommended for seniors, as it is a comprehensive business curriculum course.

*Prerequisites:* ACCT 102, BSAD116 and/or BSAD112

*3 credits, fall or spring semester*

### **BSAD 300 - MANAGEMENT COMMUNICATIONS**

This course is designed to provide students with the range of communication issues a manager will face in the future. Enduring issues on how to write and speak effectively and devise a successful communications strategy as well as how to make the best use of telecommunications technology will be explored. Through lecture and application, the student will study such areas as handling feedback, managing meetings, communicating change, communicating with diverse populations and external audiences.

*Prerequisites:* COMP 110 or 310 or BSAD 140, and BSAD 116 or AGBS 240 or permission of instructor.

*3 credits, fall or spring semester*

### **BSAD 310 - HUMAN RESOURCE MANAGEMENT**

A course designed to analyze the problems, strategies and procedures in managing and assessing human resources in contemporary organizations. Special attention is given to problems in assessing abilities and performance, effective recruitment, selection and training, motivational strategies and developing the organization's human resources. Special emphasis is placed on such topics as Equal Employment Opportunity, ethics, organizational development/teamwork, and total quality management.

*Prerequisite:* BSAD 116

*3 credits, fall or spring semester*

### **BSAD 320 - ENTREPRENEURSHIP**

This course explores the basic framework of the beginning stages of a start-up business, starting with the development of an idea and going through the various stages of bringing the idea to market. The course will include assessing risk and reviewing various financing activities. Students will incorporate the class work into a workable business plan, which will address areas which need to be included in starting a new business. The course will use case studies to help reinforce the lecture material.

*Prerequisite:* two of the following, ACCT 100 or 101, BSAD 108, BSAD 112 or permission of the instructor

*3 credits (lecture hours), fall or spring semester*

### **BSAD 325 - MARKETING MANAGEMENT**

This course primarily focuses on the marketing mix (price, product, promotion and distribution) and the management of marketing in an organization. Students will learn basic marketing principles, research techniques and strategies for understanding and managing the marketing needs in the 21st century. Students will gather and interpret information, assess marketing conditions, with market research, and suggest strategies for success. Additionally, students will complete marketing plans supported by appropriate analysis and execute a complete marketing plan presentation and presentation.

*Prerequisites:* BSAD 116, ECON 100 or 140, or permission of instructor.

*3 credits (2 lecture hours, 2 laboratory hours), fall or spring semester*

### **BSAD 327 - ADVERTISING MANAGEMENT**

This course examines advertising with a focus on managerial activities and decision-making in the advertising process. Topics include selection of target markets, establishment of communications objectives, selection of and working relationships with advertising agencies, creative strategy and execution, media selection, appropriations and budgets, and program evaluation procedures. The course will also cover ethical approaches to advertising and other promotional activities.

*Prerequisites:* BSAD 325, junior level standing or permission of instructor

*3 credits (3 lecture hours), fall semester*

### **BSAD 329 - CONSUMER BEHAVIOR**

This course will examine managerial applications of consumer behavior and provide students with the conceptual, quantitative, and analytical skills necessary to develop strategies that directly address consumer behavior and the competitive environment. Topics include factors and trends in consumer

behavior, consumer motivation and attitudes, decision-making, consumer relationships and consumer loyalty, and consumer value creation. The course will also cover researching and online consumer behavior.

*Prerequisite:* BSAD 325 or permission of the instructor.

*3 credits (3 lecture hours), fall semester*

### **BSAD 330 - LEADING AND MANAGING THE FAMILY BUSINESS**

This course introduces students to family and closely held businesses, the strategic and operating challenges encountered, and the requirements for success. The course explores and analyzes unique issues and challenges relative to the family, the business, and ownership of these businesses. Designed to enhance student awareness of and appreciation for the unique challenges involved in leading and managing the family and closely-held business, topics include the nature, importance, and uniqueness of family businesses, strategy creation, succession and transfer of power, estate planning, financial, and family business governance.

*Prerequisite:* BSAD 116, or AGBS 240, or permission of the instructor.

*3 credits (3 lecture hours)*

### **BSAD 343 - INTRODUCTION TO SPORT MANAGEMENT**

The course is designed to provide insight as to contemporary sport, such that the student clearly understands how three basic management structures (clubs, leagues, and tournaments) operate. The student of the Introductory Sport Management course will develop knowledge of the history and nature of sport management, along with how the principles of management, marketing, finance, strategy, ethics, law, and leadership are applied to this discipline. This course is also a prerequisite to the Sport Management Option Upper-Division courses in the Technology Management Program.

*Prerequisite:* BSAD 116 or by permission of instructor. This course is a Prerequisite of BSAD 353/Sport Marketing, BSAD 418/Sport Law, and BSAD 443/Strategic Management of Sport Business – Sport Management Option of the B. Tech. Technology Management Degree

*3 Credits (3 lecture hours), fall or spring semester*

### **BSAD 350 - PRINCIPLES OF CORPORATE FINANCE**

This course introduces the areas of finance: financial markets, managerial finance, and investments and the importance each has on business transactions and operating performance. Overview of financial markets and financial instruments are important topics. Explanation of basic finance concepts including interest rates, time value of money, valuation, cost of capital, risk and rates of return. Role of finance in decision-making regarding managing daily operations, seeking financing, and providing financing. Incorporates spreadsheet modeling to apply financial concepts and conduct financial analysis.

*Prerequisites:* ACCT 100 or ACCT 101, CITA 101 or CITA 110, and MATH 102, junior level standing, or permission of instructor

*3 credits (3 lecture hours), fall or spring semester*

### **BSAD 353 - SPORT MARKETING, A STRATEGIC APPROACH**

This course will provide an intensive evaluation of marketing techniques and promotional strategy. In addition, the topical coverage will include the marketing mix, new product strategy and services, interactive promotion, event marketing and value-added marketing. The student of sport marketing will acquire extensive understanding as to consumers as spectators and participants. In addition to planning the sports marketing mix (product, price, promotion and place), the student will examine the execution and evaluation of the planning process, as part of an integrated marketing strategy. This course is designed primarily for student in the B. Tech Technology Management program, with the Sports Management Option.

*Prerequisites:* Co-requisites: BSAD 325, BSAD 343 or permission of instructor – may also be taken concurrent with BSAD 418. This course is also a Prerequisite of BSAD 443 – Sport Management of Sport Business.

*3 credits (3 lecture hours)*

### **BSAD 354 - FINANCIAL MANAGEMENT AND MODELING**

This course examines financial modeling, forecasting and financial management through case study method. The students will examine valuation of companies, forecasting financial results to value companies, execute capital budgeting, and understand working capital management. The student will obtain understanding through using the case study methodology and modeling of financial problems

in each area under consideration.

*Prerequisite: BSAD 350*

*3 credits (3 lecture hours)*

### **BSAD 375 - MANAGEMENT INFORMATION SYSTEMS**

This course introduces students to solving business problems and developing new solutions using spreadsheet and database software. Topics include business information systems, E-business (how businesses use information systems), achieving competitive advantage with information systems, IT infrastructure, and foundations of business intelligence. Further topics include telecommunications (the Internet and wireless technology), securing information systems, achieving operational excellence and customer intimacy, E-commerce (digital markets and digital goods), improving decision making and managing knowledge, building information systems, and ethical and social issues in information systems.

*Prerequisites: BSAD 310, BSAD 325, BSAD 350, ACCT 102 or permission of the instructor.*

*3 credits (3 lecture hours), spring semester*

### **BSAD 380 - INTERNATIONAL BUSINESS**

This course introduces students to management within an international context. Embracing culture and globalization as its foundation, discussions include the latest theories and concepts regarding business interactions within a global environment. Topics include the global business environment, national business environments, international trade and investment, international financial systems, and international business management. Course discussions include managerial risk implications arising from different cultural, socio-economic, political, and legal systems; volumes and patterns of international trade and investments; international finance systems including international markets and money systems; and international strategy and organizational structure design. Additional topics include identification of international opportunities and entry mode selection; and international management sub-issues including marketing, production and staffing within a global environment. The course incorporates recent, real-world examples, and integrates technology.

*Prerequisites – BSAD 310, BSAD 325, BSAD 350 and junior level standing or permission of the instructor.*

*3 credits (3 lecture hours), fall or spring semester*

### **BSAD 391 – INTERNSHIP IN BUSINESS**

This is a 3-credit (300-hour minimum) approved company sponsored internship. This field-based experience provides majors in business-related disciplines an opportunity to apply and gain additional relevant knowledge, skills and experience in the discipline.

*Prerequisites: Enrolled in the Bachelor of Business Administration in Business program, completed 18 credit hours in 300 level or above business or business related course work, and permission of instructor.*

*3 credits, summer semester.*

### **BSAD 400 - PRODUCTION AND OPERATIONS MANAGEMENT**

This course examines the strategy and control processes that transform resources into finished goods and services. The primary focus is the use of quantitative techniques for analysis and decision-making, the role of productivity, quality, job design, human resources and other tasks to maximize operational performance. The emphasis is on principles of production system design and operation. Prior exposure to statistics is strongly recommended (MATH 141 or BSAD 221).

*Prerequisites: MATH 102 or higher and CITA 101, CITA 110 or OFFT 110, and junior level standing or permission of instructor*

*Student in Automotive Technology B.Tech have completed AUTO 360*

*3 credits (2 lecture hours, 2 laboratory hours), fall or spring semester*

### **BSAD 408 – RESPONSIBLE BUSINESS OWNERSHIP**

This course covers the issues involved in the responsible and ethical conduct of business. It explores responsibility issues from the viewpoint of all the stakeholders in a business. The consequences of irresponsible business behavior and non-compliance with business laws and generally accepted business standards are also explored. Course work will consist of case studies and textual readings in both Ethical and responsible business behavior. Areas of study may include (but not limited to): Business and Social Responsibility,

Responsible practices in Human Resources, Ethics in the Marketplace, Financial Responsibility, and The Environmentally Friendly and Compliant Business.

*Prerequisite: ACCT 100 or ACCT 101, BSAD 108 or BSAD 116 or FSAD 153, and junior level standing, or permission of the instructor.*

*3 credit hours (3 lecture hours), fall semester*

### **BSAD 411 - LEADERSHIP IN ORGANIZATIONS**

This course examines and analyzes the major theories and conceptualizations of leadership, wherein relevant consideration of the applicable approach of theoretical and conceptual models will be explored for real-world organizations. Major concepts include entrepreneurial leadership, team leadership, transformational leadership, women and leadership, and ethical/responsible business practices. There will be several leadership case problems and leadership action/skill-building and development exercises. Student leaders will perform research and conduct a thorough investigation of an Organizational Leader, as part of their integrating leadership learning objectives. A Leadership Simulation Program, vLeader™ is included in the course, to further augment experiential learning and training, for preparedness in effective communication, idealized influence, emotional intelligence, and creativity contribution to organizational success.

*Prerequisites: BSAD 116, junior level standing or permission of instructor*

*3 credits (3 lecture hours), fall semester.*

### **BSAD 415 - INTERNATIONAL HUMAN RESOURCES MANAGEMENT**

This course will provide students with a unique blend of theory and practice to help them analyze the vast array of employment practices, employment structures, and human resources management strategies in a comparative and global context. The purpose of the course is to provide the conceptual and practical tools necessary to address the impact of globalization on the practice of Human Resources. The course is taught from comparative and cross-national perspectives. Students will be asked to take a critical approach to Corporate Social Responsibility and Corporate Citizenship Behavior and the impact these have on business policy.

*Prerequisites: Senior standing, BSAD 116 and either BSAD 215 or 310.*

*3 credits (lecture hours,) spring semester*

### **BSAD 417 – INTERNATIONAL FINANCIAL MANAGEMENT**

This course examines the international flow of money and financial markets. An important aspect of the course will focus on foreign exchange rates and the management of changes in currency rates. Students will learn about managing transaction, accounting and translation risks. In addition, students will cover trade financing and international cash management.

*Prerequisite: BSAD 350*

*3 credits (3 lecture hours)*

### **BSAD 418 – SPORT LAW**

This course examines legal issues affecting amateur and professional sports. Students will analyze sports cases and materials that cover multiple disciplines, including contracts, torts, constitutional law, antitrust, labor and employment, intellectual property, and criminal law. Students will participate in problem-solving exercises and drafting and negotiation sessions, which explore areas such as player and coaching contracts, investigation of NCSS rules infractions and possible sanctions against universities. Students will augment their learning through analysis and discussion of up-to-the-minute professional and collegiate sports law developments. This course demonstrates how knowledge of the law creates a competitive advantage and helps build a more efficient and successful operation that better serves the needs of its constituents. Learning objectives will be organized around management functions rather than legal theory. This approach will allow students to understand how legal concepts relate to specific managerial functions and will help prepare them to assume a broad range of responsibilities in sport, education, or recreation. This course is designed primarily for students in the B. Tech Technology Management program, with the Sport Management Option.

*Pre- or Co-requisites: BSAD 108 and BSAD 343 (Introduction to Sports Management) or by permission of instructor.*

*3 Credits (3 lecture hours), fall or spring semester*

### BSAD 419 – GLOBAL MARKETING

This course will examine culture and international trade reflecting on the impact of the marketing mix. Students will examine and assess different cultures as well as the political and legal environment of different countries. During the course, the examination of global marketing opportunities and strategies to exploit those opportunities will take place. A review of product and service marketing in an international setting will be emphasized during the course.

*Prerequisite: BSAD 325*

*3 credits (3 lecture hours), fall semester*

### BSAD 443 – STRATEGIC SPORTS BUSINESS

The primary objective of this course is to provide students the opportunity to analyze and integrate business and managerial concepts, tools, techniques, and strategies in sport management. This course is the culmination of student learning in sport management. Students will effort to assess problems and to make decisions facing sport managers and business leaders. Emphasis will focus on the strategic, profit-oriented, and ethical decision-making that are necessary for sport managers to be successful. The course also focuses in detail on a senior thesis that will provide opportunities for in-depth analysis of a specific area in the field. Small group discussions, case studies, and experiential learning will be utilized in order to facilitate learning. This course will augment critical thinking and analysis skills through analytical essays and strategic group projects associated with the industry. This is a writing-intensive course, therefore the development of quality writing skills will be emphasized. Since the internship of Tech Management Students whose focus is in sport management is imminent at this point, this course will also attempt to provide an analysis as to effective management and leadership strategies and the body of knowledge associated with pursuing a career in sport management. Thorough class preparation and participation are critical for student success. This course is designed primarily for students in the B. Tech Technology Management program, with the Sport Management Option.

*Prerequisites: BSAD 353 and BSAD 418 Sport Management Option of the B. Tech. Technology Management Degree.*

*3 Credits (3 lecture hours), fall or spring semester*

### BSAD 449 - MANAGEMENT POLICY AND ISSUES

The emphasis is on analyzing the criteria for which ultimate business decisions are made; business strategies in international and domestic operations and the impact of political, economic and legal factors. Focus will be given to actual situation analysis and applying current functional and managerial techniques to a variety of case studies.

*Prerequisites: Must complete two of the following courses with a C or better: ACCT 101, BSAD 112, ECON 100 and BSAD 116; and six additional credits of 300/400 level BSAD or RRMT course work; be matriculated in a bachelor degree program with a GPA of 2.0 in business and related classes; or have permission of instructor.*

*3 credits (3 lecture hours), spring semester*

### BSAD 465 – MANAGEMENT CONSULTING

This course is designed to initially overview the consulting profession with a subsequent emphasis on organizational consulting issues. The application of theory from the various disciplines to business problems in a consulting environment is emphasized. Definitions of problems, analysis of appropriate variables, and recommendations are provided by students for implementation by management. Students may choose from two options: (1) Business Project: Students are assigned projects for problem analysis and solution or (2) Consultancy: Student develops a project that is of value with a client organization using academic theory. Student will provide a journal and present the written report to management, the faculty advisor, and class colleagues. Successful completion of CITA 405 is highly recommended.

*Co and Prerequisites: BSAD 350 with a "B" or higher, concurrent enrollment in BSAD 470 or ENTR 417, or permission of the instructor*

*3 credits (3 lecture hours), fall or spring semester*

### BSAD 470 - STRATEGIC MANAGEMENT

This course is a capstone course in the Business Administration (B.B.A) degree program and is required of all seniors. Emphasis is given to the integration of subject matter from other business courses and disciplines in the discussion

and analysis of organizational problems. The course attempts to balance theory, research, and practice within a coherent framework. Cases help students integrate and apply concepts and knowledge to actual real-world problems.

*Prerequisite: Senior standing, admission into the Bachelor of Business Administration degree program, BSAD 350, BSAD 380 and Math 153.*

*3 credits (3 lecture hours), fall or spring semester*

## CASINO CAREERS PROFESSIONAL DEVELOPMENT

### CAS 101 - INTRODUCTION TO THE CASINO INDUSTRY

This course surveys the history of gaming, casino regulations, organizational structure within gaming, daily casino operations, various types of games, financing and the future development of the industry.

*3 credit hours, fall semester*

### CAS 102 - INTRODUCTION TO GAMING

This course is designed to familiarize individuals with the various games offered at typical casinos. It provides a survey of the games offered as well as a rather in-depth investigation of the most common games.

*3 credit hours, fall semester*

### CAS 103 - CASINO SECURITY

This course is designed to familiarize individuals with the various types of security measures used in the casino industry to protect the agency from loss and maintain the integrity of the games. In addition to providing information relative to typical cheating methods in each game, the course will also provide information relative to the legal aspects of surveillance.

*3 credit hours, fall semester*

### CAS 104 - CONTEMPORARY ISSUES IN HUMAN RESOURCE MANAGEMENT FOR THE HOSPITALITY INDUSTRY

This course surveys current issues, techniques and applications for managing human resources in the hospitality industry. Information strategies, team building, legislation and their impact on achieving service objectives will be studied. Development of a management philosophy appropriate for the service industry shall be the final outcome.

AHMA certification.

*3 credits (3 lecture hours), fall semester*

### CAS 105 - FOOD AND BEVERAGE IMPLICATIONS FOR CASINO OPERATIONS

This course focuses on volume food service in multiple casino operations. Various performance, service and financial objectives as well as interface of the food & beverage department with other casino operations shall be presented.

*Prerequisite: Acceptance in the CAS program or permission of instructor*

*3 credits (2 lecture hours, 2 recitation hours), fall semester*

### CAS 230 - TECHNOLOGY AND CONTROLS IN GAMING

An overview of internal controls, computer applications technological advances and their impact on customer service strategies in the gaming industry. The applications of technology in various facets of gaming/casino operations.

*Prerequisites: CAS 103, 251, and BSAD 107 or permission of instructor.*

*3 credits (3 lecture hours), fall semester*

### CAS 240 - HOSPITALITY SALES & MARKETING

Marketing in the service industries and developing strategies/processes necessary for successful gaming and hospitality operations will be the focus of this course. Interventions which facilitate desirable exchanges and the achievement of financial objectives in the hospitality industry will be examined.

*3 credits (3 lecture hours), fall semester*

### CAS 251 - COOPERATIVE WORK EXPERIENCE

Cooperative Work Experience will be completed in an approved position in the gaming/casino industry (320) hours. Comprehensive written and oral reports are required at the conclusion of the work experience during the fall semester



lecture hours.

2 credits (2 lecture hours), fall semester

### **CAS 280 - LEADERSHIP DEVELOPMENT STRATEGIES FOR THE HOSPITALITY INDUSTRY**

This course focuses on leadership and developing strategies which result in a healthy organizational climate and the achievement of objectives. Competencies of great leaders, ethical leadership and the leader's role in addressing socio/cultural concerns will be studied along with Baldrige Award criteria.

*Prerequisites:* 2nd year CAS standing, CAS 230, or permission of instructor. AHMA certification.

3 credits (3 lecture hours), spring semester

### **CAS 290 - PROFESSIONALISM, IMAGE AND PUBLIC RELATIONS FOR GAMING/HOSPITALITY MANAGEMENT**

This capstone course is designed to integrate knowledge and skills into the critical thinking process required for corporate level decision making. Case studies and research of an existing corporation will be the basis for studying issues and presenting issues related to Casino Management. Development of a framework and format for effective operation of a service sector business.

*Prerequisites:* 2nd year CAS standing, CAS 240, 250, 251, or permission of instructor.

3 credits (3 lecture hours), spring semester

### **CAS 311 - FUNDAMENTALS OF SURVEILLANCE & SECURITY TECHNOLOGIES**

This lecture series will survey the security and surveillance controls and emerging technologies of the gaming industry. An overview of the daily operations of a gaming facility will be presented. Attendees will acquire an understanding of the gaming industry, its environment, and the role of technology.

*Prerequisites:* CAS 103 and BSAD 107 or permission of instructor

1 credit (15-hour lecture series), fall semester Offered as an elective

## **CHEMISTRY**

### **CHEM 101 - BASIC CHEMISTRY**

Primarily for students with no previous chemistry. Fundamentals of chemistry including mathematical concepts, classification and states of matter, chemistry symbols, formulas and equations, Chemical reactions, mole concepts, atomic structure, bonding and solutions.

*Prerequisite:* Knowledge of basic algebra strongly suggested.

*Co-requisite:* CHEM 101L

3 credits (3 lecture hours), fall or spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### **CHEM 101L - LABORATORY FOR BASIC CHEMISTRY**

Correct techniques and methods for handling chemicals, equipment, and data. A laboratory experience that allows the first time chemistry student to be comfortable in a laboratory setting.

*Co-requisite:* CHEM 101

1 credit (2 laboratory hours), fall or spring semester

### **CHEM 110 - CONTEMPORARY CHEMISTRY**

A descriptive, but non-mathematical approach to chemistry for non-science majors based on issues important to society and the chemical sciences. Topics to be discussed include, but are not limited to, atmospheric chemistry, gases, and air pollution; aqueous chemistry, water pollution, and acids and bases; thermodynamics, fossil fuels, and alternative energy sources; organic chemistry, plastics, and recycling; drugs, pharmaceuticals, and consumer chemicals; food, chemistry, and agricultural chemicals; biochemistry and biotechnology. Chemistry concepts are presented as needed to discuss a particular issue. The course is meant to fulfill a student's science/liberal arts requirement and does not serve as a prerequisite for CHEM 121 or 141. This course is not meant for students who have taken or will take CHEM 101, CHEM 121/122, or CHEM 141/142 as part of their program requirements.

*Co-requisite:* CHEM 110L

3 credits (3 lecture hours), fall or spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General*

*Education Requirement for Natural Science*

### **CHEM 110L - LABORATORY FOR CONTEMPORARY CHEMISTRY**

Designed as a co-requisite for Contemporary Chemistry for those students also requiring a laboratory experience. Experiments are designed to reflect and amplify the concepts discussed in class as well as to afford students the opportunity to develop laboratory skills, powers of observation, an appreciation of safety concerns and proper disposal methods, and troubleshooting techniques. Experiments include synthesis, analysis, and the investigation of the properties of materials.

*Co-requisite:* CHEM 110

1 credit (2 laboratory hours), fall or spring semester

### **CHEM 121 - GENERAL COLLEGE CHEMISTRY I**

A course using chemical principles to explain chemical phenomena. Units, significant figures, dimensional analysis, and math and calculators as tools; chemical symbols, atomic structure, bonding, and the periodic table; anions, cations, molecules, acids, bases, formula writing, and nomenclature; classification of chemical reactions, equation writing, solutions, and stoichiometry. Additional topics to be taken from the gaseous state, the liquid state, the solid state, and thermochemistry.

*Prerequisite:* placement in CHEM 121 or higher and high school algebra, or placement in MATH 102 or higher, or CHEM 101 with a C- or better

*Co-requisite:* CHEM 121L

3 credits (3 lecture hours), fall or spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### **CHEM 121L - LABORATORY FOR GENERAL COLLEGE CHEMISTRY I**

Exercises to develop competence in basic laboratory techniques: to develop skills in proper methods of collecting, organizing, and handling of data; to develop preparation skills; to develop trouble shooting skills; to develop written communication skills. Experiments designed to reinforce and supplement lecture topics.

*Co-requisite:* CHEM 121

1 credit (2 laboratory hours), fall or spring semester

### **CHEM 122 - GENERAL COLLEGE CHEMISTRY II**

A continuation of CHEM 121 emphasizing the practical aspects and applications of chemistry in the fields of health, medicine, agriculture, foods, biology, and engineering. Topics covered include chemical equilibrium, chemical kinetics, acid-base equilibrium, oxidation-reduction and electrochemistry, nuclear chemistry, and organic chemistry.

*Prerequisite:* CHEM 121

*Co-requisite:* CHEM 122L

3 credits (3 lecture hours), spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### **CHEM 122L - LABORATORY FOR GENERAL COLLEGE CHEMISTRY II**

Reinforcement of lecture topics in the areas of equilibrium, acid-base chemistry, oxidation-reduction reactions, electrochemistry, and organic chemistry. Quantitative exercises in spectrophotometry and analysis. A short scheme of qualitative analysis is also included.

*Co-requisite:* CHEM 122

1 credit (3 laboratory hours), spring semester

### **CHEM 141 - CHEMICAL PRINCIPLES I**

Theoretical in-depth approach to atoms, electronic structure, bonding, thermochemistry, behavior of gases, and solution behavior. Emphasis on problem solving.

*Prerequisite:* Placement into CHEM 121 or CHEM 141; three units of high school mathematics

*Corequisite:* CHEM 141L

3 credits (3 lecture hours), fall semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

**CHEM 141L – LABORATORY FOR CHEMICAL PRINCIPLES I**

Use of precision equipment in collecting data. Experiments quantitatively oriented with considerable use of un-knowns.

*Corequisite:* CHEM 141

*1 credit (3 laboratory hours), fall semester*

**CHEM 142 – CHEMICAL PRINCIPLES II**

Theoretical approach to reaction kinetics, principles of equilibrium and their applications, oxidation-reduction reactions, thermodynamics, nuclear chemistry, metal ion complexes, and organic chemistry.

*Prerequisite:* Chem 141 or permission of instructor

*Co-requisite:* CHEM 142L

*3 credits (3 lecture hours)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

**CHEM 142L – LABORATORY FOR CHEMICAL PRINCIPLES II**

Experimental determination of reaction rates, activation energies, equilibrium, dissociation and solubility product constants. Qualitative scheme of analysis utilizing unknowns. Volumetric and gravimetric determinations with use of some instrumentation.

*Corequisite:* Chem 142

*1 credit (3 laboratory hours)*

**CHEM 220 - INTRODUCTION TO ORGANIC CHEMISTRY**

This is a survey of organic chemistry utilizing functional group and mechanistic approaches. The course will review the basics of chemical bonding, thermodynamics, kinetics, and acid-base chemistry needed to understand the chemistry of organic molecules. The chemical and physical properties of the standard functional groups will be examined. Transformations of functional groups will be explored and the fundamentals of the spectroscopic identification of each functional group will be practiced. The three dimensional structure of molecules will be a point of major focus. Examples of the relevancy of organic chemistry to everyday activities will be stressed, and the relationship of organic molecules to the chemistry of life will be highlighted.

*Prerequisite:* CHEM 122 and CHEM 122L or CHEM 142 and CHEM 142L.

*3 credits (3 lecture hours) fall and spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

**CHEM 220L – LABORATORY FOR INTRODUCTION TO ORGANIC CHEMISTRY**

This is the laboratory component of Introduction to Organic Chemistry. The basic unit operations necessary for the practice of organic chemistry, such as melting point determination, index of refraction, density, crystallization, thin layer chromatography, column chromatography, gas-liquid chromatography, simple distillation, fractional distillation, extraction, and infrared spectroscopy will be practiced by the student. Students will then apply these operations to the isolation and preparation of a variety of organic functional groups.

*Prerequisite:* CHEM 122 and CHEM 122L or CHEM 142 and CHEM 142L

*Pre- or Co-requisite:* CHEM 220

*1 credit (3 laboratory hours) fall or spring semester*

**CHEM 241 - ORGANIC CHEMISTRY I**

Bonds and bonding, nomenclature, properties and methods of preparation of the aliphatic compounds as well as conjugation, resonance, stereochemistry and aromaticity. The study of the functional groups correlates with the study of reaction mechanisms, conformational analysis, concepts of resonance, transition state theory, and spectroscopic properties.

*Prerequisite:* CHEM 122 or CHEM 142 or permission of instructor

*Co-requisite:* CHEM 241L

*3 credits (3 lecture hours), fall semester*

*This course satisfies SUNY General Education Requirements for "Natural Sciences" as long as students also enroll in the lab.*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

**CHEM 241L - LABORATORY FOR ORGANIC CHEMISTRY I**

Separations, purifications, and characterization methods such as distillation, crystallization, chromatography and spectrophotometry. Carrying out organic

reactions, isolating, purifying, and characterizing products.

*Co-requisite:* CHEM 241

*1 credit (4 laboratory hours), fall semester*

**CHEM 242 - ORGANIC CHEMISTRY II**

A continuation of CHEM 241. Nucleophilic substitution, aromatic substitution, ethers, aldehydes, ketones, alcohols, carboxylic acids, amines, phenols and special topics. Emphasis on reactions mechanisms.

*Prerequisite:* CHEM 241 and CHEM 241L or permission of instructor

*Co-requisite:* CHEM 242L

*3 credits (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

**CHEM 242L - LABORATORY FOR ORGANIC CHEMISTRY II**

A continuation of CHEM 241L. Emphasis is on synthesis and application of techniques learned in the first semester.

*Co-requisite:* CHEM 242

*1 credit (4 laboratory hours), spring semester*

**CHEM 321 - QUANTITATIVE ANALYSIS, INORGANIC**

Principles and practices of the quantitative treatment of chemical reactions and equilibria. Major emphasis on volumetric, redox and UV-VIS spectrophotometry in addition to other topics. Problem solving.

*Prerequisites:* CHEM 142, CHEM 142L or CHEM 122, CHEM 122L

*Co-requisite:* CHEM 321L

*2 credits (2 lecture hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

**CHEM 321L - LABORATORY FOR QUANTITATIVE ANALYSIS, INORGANIC**

Titrametric methods of analysis and basic experiments in spectrophotometry in addition to other topics. Problem solving.

*Co-requisite:* CHEM 321

*2 credits (4 laboratory hours), fall semester*

*This course counts towards the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

**CHEM 322 - CHEMICAL INSTRUMENTAL ANALYSIS**

Introductory principles and theories underlying modern chemical instrumentation for both inorganic and organic compounds.

*Prerequisite:* CHEM 321 or permission of instructor

*Co-requisite:* CHEM 322L

*2 credits (2 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

**CHEM 322L - LABORATORY FOR CHEMICAL INSTRUMENTAL ANALYSIS**

Analytical experiments including potentiometry, gas chromatography, and high pressure liquid-chromatography. Emphasis on spectrophotometry with work in UV, IR, NMR, AA, flame emission and fluorescence.

*Co-requisite:* CHEM 322

*2 credits (4 laboratory hours), spring semester*

**CHEM 361 - BIOCHEMISTRY**

A study of the molecular components of cells, catabolism, and biosynthesis with applications of principles from general and organic chemistry.

*Pre- or Co-requisite:* CHEM 242

*3 credits (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

**COACHING****COAC 101 - COACHING EFFECTIVENESS TRAINING**

Introduction to sport science including the fields of sport psychology, sport pedagogy, sport physiology, and sport management. Introduction to the rules

and regulations of the New York State Public High School Athletic Association (NYSPHSA). One of three courses fulfilling New York State requirements for coaching certification.

*3 credits (3 lecture hours), fall or spring semester*

### **COAC 102 – THEORY AND TECHNIQUES OF COACHING**

This course introduces the student to the basic concepts of coaching in New York State including general instructional strategies, rules and regulation of play, and periodization of training. Topics to include athletic security and safety, organization and management of practices and sport specific training. One of three courses fulfilling New York State requirements for coaching certification.

*2 credits (2 lecture hours) fall or spring semester*

### **COAC 103 – HEALTH RELATED ASPECTS OF COACHING**

Examines the responses of the body to exercise and the relationship between various physiological systems and athletic performance and improvement. Provides the basic principles of conditioning and nutrition to enable development of safe and effective training and nutritional programs for athletes. Includes basic first-aid and safety as related to athletic participation. One of three courses fulfilling New York State requirements for coaching certification.

*3 credits (3 lecture hours) spring semester*

## **COMMUNICATION**

### **COMM 101 - CRITICAL READING**

The study of extracting and analyzing information. Content includes recognition of such concepts as analogies, metaphors, organizations and arguments. Issues from popular culture and politics are used as examples of how messages are tailored to influence us. Emphasis on critical thinking skills, the recognition and avoidance of logical fallacies.

*3 credits (3 credit hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement.*

### **COMM 111 - INTRODUCTION TO SPEECH**

Speech as communication. Composition and delivery of informative and persuasive speeches. Practice in addressing a group in order to develop confidence and proficiency. Lectures and discussion of techniques of organization and presentation ideas.

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Basic Communication.*

### **COMM 121 - THEORIES OF INTERPERSONAL COMMUNICATION**

This course examines dyadic communication and the major variables that impact it. Some issues which will be examined are issues of gender, power, conflict, and culture. Nonverbal communication and the impacts of technology will also be included. Students are given opportunities through in-class exercises and writing assignments to learn new theories, apply them and to assess their competence in using them.

*3 credits (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

### **COMM 131 - SMALL GROUP DISCUSSION**

Introduction to the organization and behavioral characteristics of group interaction in oral decision making. Content includes the analysis of leadership, conflict and consensus, systems theory, and other issues in task-oriented groups. The course will closely examine the impact of communicating over distances on modern small group theory. The impact of technology on modern group theory will also be a covering concept throughout the semester.

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement.*

### **COMM 300 - VISUAL COMMUNICATION**

This is a survey course that examines the evolution of visual communication from the invention of the printing press to the development of the World Wide Web. Students will learn the many ways information is produced and consumed

in a modern, media-rich society. Typographic, graphic, informational, cartoon, still, moving, television, and computer images are analyzed within a framework of personal, historical, technical, ethical, cultural and critical perspectives.

*Prerequisite: C or better in COMP 101 and junior or senior standing, or permission of instructors*

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Basic Communication.*

## **COMPOSITION**

### **COMP 100 – INTRODUCTION TO COLLEGE WRITING**

Review of essay components and structure. Students will refine their mastery of Standard English by writing narrative essays that demonstrate college-level thesis construction and execution.

*Pre-requisite: Placement in COMP 100; or C or better in SKLS 088 or equivalent*

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement.*

### **COMP 101 – COMPOSITION AND RESEARCH**

College composition and research. Students practice modes of rhetoric by writing expository essays, culminating in an argumentative research paper.

*Pre-requisite: Placement in COMP 101 or C or better in COMP 100 or equivalent*

*3 credits (3 lecture hours), fall or spring*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Basic Communication.*

### **COMP 102 – WRITING ABOUT LITERATURE**

Introduction to literature. Students learn the elements of literature by studying different genres to develop interpretive and analytical skills

*Pre-requisite: C or better in COMP 101.*

*3 credits (3 lecture hours), fall or spring*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

### **COMP 110 - TECHNICAL COMMUNICATIONS**

Designed to introduce students to internal and external workplace communications such as memos, manuals, instruction sheets, and proposals. Research and group projects are required and may include oral presentations and visual aids. Students cannot receive credit for both COMP 110 and COMP 310

*Prerequisite: C or better in COMP 101*

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Basic Communication.*

### **COMP 220 - WRITING IN THE DISCIPLINES**

Designed to strengthen students' writing and analytical skills by examining the written language used by arts and humanities, social sciences and public affairs, natural sciences and technology, and business professionals. Students will read and evaluate a diverse spectrum of published materials and contrast for fundamental assumptions, concerns, methodology, terminology, and goals. Imitative and analytical papers are required.

*Prerequisite: C or better in COMP 101*

*3 credits (3 lecture hours), offered on a rotating basis*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Basic Communication.*

### **COMP 221 - ADVANCED COMPOSITION AND RESEARCH**

Rhetorical argument and critical thinking through writing and research are among the topics that will be covered in this course. Students will learn and develop skills of logic and argument in essays requiring rigorous critical thinking and synthesis of information in an argumentative research paper.

*Prerequisite: C or better in COMP 101 and COMP 102 or equivalent, or by permission of the instructor*

*3 credits (3 lecture hours), spring or fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Basic Communication.*

**COMP 230 – CREATIVE WRITING: SHORT STORY**

This is a creative writing course. Students will study the elements of fiction and practice various techniques. Class will be conducted as a workshop and students will critique each other's writing. Submission of a portfolio and a completed short story is required by the end of the semester.

*Prerequisite: C or better in COMP 101*

*3 credits (3 lecture hours), fall or spring*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

**COMP 231 – CREATIVE WRITING: POETRY**

This is a creative writing course. Students will study the levels of poetry and its various elements. They will practice generating different poem forms to develop the craft of writing poetry. Class will be conducted as a workshop and students will critique each other's works. They will submit portfolio work throughout the semester.

*Prerequisite: "C" or better in COMP 101.*

*3 credits (3 lecture hours), fall or spring*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

**COMP 232 - CREATIVE WRITING**

A five-week, one-credit course in creative writing designed to encourage students to develop their creative writing skills and techniques, and to share and discuss their works in a workshop setting.

*1 credit (5-week course), offered on a rotating basis*

*This course satisfies the Liberal Arts and Sciences requirement.*

**COMP 233 – CREATIVE WRITING: CREATIVE NONFICTION**

What is "creative"? What is "nonfiction"? This is a creative writing course about the exciting field of creative nonfiction, which may include: memoir, lyrical essay, literary journalism, collage, nature and travel writing, fragment, creative biography, genre-bending, experimental writing, etc. This is not academic or technical writing. Class will be conducted as a supportive workshop experience in which students will read, discuss, create, share, and critique each other's work and the work of published authors.

*Prerequisite: COMP 101*

*3 credits (3 lecture hours), fall or spring*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

**COMP 240 - EDITING 1**

Improve your written work. This course helps you identify and correct errors in grammar, punctuation, capitalization and spelling. Develop the editing skills of careful reading, good judgment and correct use of the English language.

*Prerequisite: COMP 101*

*1 credit, offered on a rotating basis*

*This course satisfies the Liberal Arts and Sciences requirement.*

**COMP 241 - EDITING 2**

Improve your written work. This course helps you identify and correct errors in phrases, clauses, sentence structure and sentence punctuation as well as develop variety in your use of the various types of English sentences. This course will help you develop the editing skills of careful reading, good judgment and correct use of sentences.

*Prerequisite: COMP 101*

*1 credit, offered on a rotating basis*

*This course satisfies the Liberal Arts and Sciences requirement.*

**COMP 242 - EDITING 3**

Fine-tune your written work. This course applies the editing skills learned in Editing 1 and Editing 2 and examines editing for appropriate use of diction and document format. Edit documents written for different audiences and purposes in areas relevant to a variety of college programs and career fields.

*Prerequisites: COMP 240, 241*

*1 credit, offered on a rotating basis*

*This course satisfies the Liberal Arts and Sciences requirement.*

**COMP 310 - ADVANCED TECHNICAL COMMUNICATIONS**

Open only to students in bachelor degree programs, this course requires students to study workplace communication. Students will study and produce

common workplace documents such as memos, letters, manuals, instruction sheets, abstracts, proposals, analytical reports, feasibility studies, etc. and will also consider ethical issues surrounding workplace communication. Research projects and the production and use of visual aids are required. Oral presentations and collaborative projects may be required. Students cannot receive credit for both COMP 110 and COMP 310.

*Prerequisite: Junior or senior standing and C or better in COMP 101, or by permission of instructor*

*3 credits (3 lecture hours), fall and spring semesters*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Basic Communication.*

## COMPUTER-AIDED DESIGN

**CAD 181 - INTRODUCTION TO COMPUTER-AIDED DRAFTING**

This is an introduction to the fundamental concepts and techniques of two-dimensional drawing using AutoCAD software. Topics include file management, the drawing environment, basic drawing and editing commands, multi-view object representation, text creation, dimensioning, and section views.

*1 credit (2 laboratory hours), fall or spring semester*

**CAD 183 - ARCHITECTURAL COMPUTER-AIDED DRAFTING AND DESIGN**

This course will introduce computer-aided drafting and design (CAD) software designed for the utilization in the field of architecture. By Using CAD software, students will learn to generate professional quality two-dimensional drawings and details. Ultimately by using multiple software packages, students will explore three-dimensional modeling, culminating in the creation of realistic color renderings of buildings and furnishings.

*Prerequisite: CAD 181*

*Pre- or Co-requisite: ARCH 271, MATH 103 (minimum) or permission of instructor*

*2 credits (1 lecture hour, two laboratory hours), fall semester*

**CAD 184 - COMPUTER-AIDED DRAFTING FOR MECHANICAL DESIGN**

A comprehensive introduction to two-dimensional drafting techniques. Topics include file management, drawing environment and coordinate systems, geometry construction and modification, inquiry techniques, text, dimensioning, sectional views, blocking and assembly drawing. Emphasis is placed on accuracy of object geometry construction.

*Co-requisite: DRFT 151 or permission of instructor*

*2 credits (1 lecture hour, 2 lab hours), fall semester*

**CAD 186 – 3D PARAMETRIC SOLID MODELING**

Utilization of 3D parametric modeling software to develop and document mechanical part component and assembly models. Topics include the parametric model concept, dimensional and geometric constraints, feature-based modeling techniques, fits in assembly, and plotting dimensioned multiview drawings. Emphasis is placed on model integrity and documentation.

*Prerequisite CAD 184 or permission of instructor*

*2 credits (1 lecture hour, 2 laboratory hours), spring semester*

**CAD 288 – ADVANCED SOLID MODELING**

Advanced parametric solid modeling concepts and applications. Topics include solid modeling with 3D sketches, surface modeling, functional assembly modeling, simple mold design, sheet metal modeling, fasteners, visualization and animation tools, kinematic motion analysis, static stress analysis, and dimensioning with geometric tolerances. Emphasis is placed on model integrity and documentation.

*Prerequisite: CAD 186, DRFT 252*

*2 credit hours (4 laboratory hours), spring semester*

## COMPUTER INFORMATION SYSTEMS

**CITA 101 – PRINCIPLES OF COMPUTERS AND APPLICATIONS**

This course covers the fundamentals of computer systems and is designed to



progress students from an introductory skill level to an intermediate (proficient) skill level in word processing, graphics, communications, multimedia, and spreadsheets. It includes an overview of computer hardware components and examines the issues and trends in computing technology. This course moves students from early modeling instruction through project-based exercises similar to situations they may encounter in the workplace and requires students to use their critical thinking skills.

*3 credits (3 lecture hours), fall and spring semester*

### **CITA 110 – INTRODUCTION TO INFORMATION TECHNOLOGY**

A survey of equipment and programs used in common computer systems. Topics include internal storage, in-put/output devices, operating systems, popular applications packages. Current and future trends will be discussed in reference to networks, mainframe and microcomputers. (Note: This course may be challenged with a formal test out process. Contact your advisor or CIT Dept. for information)

*3 credits (3 lecture hours), fall and spring semester*

### **CITA 112 – INTRODUCTION TO GAME DEVELOPMENT**

This course involves game development, game concepts, design components and processes, game worlds, character development, storytelling and narrative, creating the user experience, core mechanics, game balancing, and leveling. The creation of 2D games is used to introduce the concepts of game design. No traditional programming languages are involved and no programming experience is required.

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### **CITA 120 - COMPUTER CONCEPTS AND OPERATING SYSTEMS**

A study of the terminology and concepts associated with computer systems hardware and software. Topics include system hardware components, memory organization and management, operating systems, and troubleshooting fundamentals. Students will install, configure, test and troubleshoot system software to apply the various concepts covered in the course.

*Prerequisites: CITA 110 or CITA 101, or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### **CITA 140 - INTRODUCTION TO PROGRAMMING**

Programming in a high level language emphasizing problem-solving and object-oriented programming techniques. Topics include assignment, input/output, selection, looping, scalar and array data structures, string and numeric data and modular development.

*Prerequisite: MAGN 101 with C or better or placement in MATH 102 or higher*

*3 credits (2 lecture hours, 2 lab hours), fall and spring semester*

### **CITA 150 - DATA MANAGEMENT TECHNIQUES**

Advanced object-oriented high-level language programming focusing on internal memory management techniques, programming structures, and programming style. Topics include character string processing, sorting, searching and lists.

*Prerequisite: CITA 140 (with C or better) or equivalent, or permission of the instructor*

*3 credits (2 lecture hours, 2 lab hours), spring semester*

### **CITA 190 – INTRODUCTION TO LINUX/UNIX OPERATING SYSTEMS AND ADMINISTRATION**

Lecture and hands-on instruction in the installation, configuration, and use of the Linux and UNIX operating systems. Hands-on laboratory exercises are used to help students gain experience with practical application of concepts discussed in lecture. Upon successful completion of the course, students will understand basic Linux/UNIX terms and history, installation procedures, Linux/UNIX file systems, the command interface, X Windows, managing processes, common administrative tasks, and Linux/UNIX network services and security.

*Prerequisite: CITA 110 or COSC 111 or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### **CITA 200 - DATA COMMUNICATIONS AND NETWORKING**

A study of the terminology, hardware, and software associated with data communications and networking systems. Topics include design principles for human-computer dialogues, selection criteria for communications devices, the technology behind data transmission, techniques and message protocols for line

control and error processing, networking components, and network topologies, routing and protocols.

*Prerequisite: CITA 120, or permission of the instructor*

*3 credits (2 lecture, 2 laboratory hours), fall and spring semester*

### **CITA 210 - VISUAL PROGRAMMING AND DEVELOPMENT TOOLS**

Lecture and hands-on instruction in visual programming which is commonly defined as the visual expressions including drawings, animation, or icons that are directly manipulated by the user in an interactive way. Object oriented and event driven programming that include forms, controls, properties, and solutions. Solutions to application problems encountered in the typical business organization.

*Prerequisite: CITA 140 (with a C or better), or equivalent, or permission of the instructor.*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### **CITA 212 – FUNDAMENTALS OF GAME DESIGN**

The design of games, both for education as well as entertainment, is explored in detail. The course involves programming in a high-level scripting language. Topics include game concepts, design components and processes, game worlds, character development, storytelling and narrative, creating the user experience, core mechanics, game balancing, and leveling. A user-centric approach to design is emphasized.

*Prerequisites: CITA 140 or COSC 111, or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours) fall semester*

### **CITA 220 - SYSTEMS ANALYSIS**

This course explores the philosophy, objectives and organization of the systems analysis activity. Topics include: the justification of the need for information systems to support management decisions; the impact of information systems on individuals and organizations; life cycle and prototyping methodologies; tools and techniques of systems analysis. Emphasis is on transaction processing systems.

*Prerequisite: CITA 140, or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### **CITA 230 - NETWORK TECHNOLOGY**

Survey and evaluation of network media, access methods, and topologies. Design, configuration, operation and maintenance questions are explored. Topics will include end user perspective, network operating systems, cabling, hardware protocols, software, design, and administration.

*Prerequisite: CITA 200, or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### **CITA 240 - WEB AND E-COMMERCE DEVELOPMENT**

A study of software, clients, and servers used in Web and E-commerce development. Topics include basics of server side programming, client side programming, and database programming. Students will install a web application server and implement basic application in the Model View Controller (MVC) framework.

*Prerequisite: CITA 120 and CITA140 (with C or better), or permission of the instructor.*

*3 credits (3 lecture hours), fall semester*

### **CITA 260 - PHOTOGRAPHY AND DIGITAL IMAGING**

An introduction to the principles of photography. This course will include the use of the camera, processing and printing. Computer scanning and the manipulation of photographic images with software editing tools will be covered. Design and composition will be stressed. Students will be expected to have access to a good camera, and they must purchase additional materials.

*Prerequisite: CITA 110 or CITA 101 (with C or better), or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### **CITA 270 – FUNDAMENTALS OF NETWORK SECURITY**

Survey of fundamental knowledge needed to analyze security risks to systems and implement a workable security policy that protects information assets from potential intrusion, damage, or theft. Students learn to deploy effective countermeasures to thwart potential attacks in a hands-on laboratory environment.

*Prerequisite: CITA 200, Math 103 eligibility or permission of the instructor*

3 credits (2 lecture hours, 2 laboratory hours), spring semester

### **CITA 280 - TOOLS AND TECHNIQUES FOR APPLICATION DEVELOPMENT**

This course includes lecture and hands-on instruction in application and database development. Topics include data modeling; database design; the use of database management software, screen and report generators; query languages; 4GLs. Current topics in application development are also discussed.

Prerequisite: CITA 220, or permission of the instructor

3 credits (2 lecture hours, 2 laboratory hours), spring semester

### **CITA 300 - COMPUTER SYSTEM SUPPORT AND MAINTENANCE**

This is a project-oriented course that focuses on the support and maintenance of PCs. Students will learn how plan, organize, implement and operate a support system and apply this knowledge and skill through actual participation in a help desk environment. Students will also learn how to upgrade, troubleshoot, and maintain PC hardware and software, and how to build and repair PCs in a hands-on environment.

Prerequisite: CITA 120, or permission of the instructor

3 credits (2 lecture hours, 2 laboratory hours), fall semester

### **CITA 305- INTRODUCTION TO COMPUTER CRIME AND DIGITAL FORENSICS**

A study of computer crime and digital forensics providing an introduction to foundational terminology and concepts. Areas of study include current trends in computer crime, methodologies for computer crime investigation, and techniques for maintaining legal chain-of-custody and documentation, and application of basic digital forensics tools.

Students may not receive credit for both CITA 270 and CITA 305.

Prerequisites: CITA 101 or CITA 110, or permission of instructor

3 credits (3 lecture hours), fall and spring semesters

### **CITA 310 - WEB SERVER ADMINISTRATION**

A comprehensive survey of all aspects of Web server administration. Students will gain hands-on experience by actually installing and administering their own Web servers in a lab environment. Topics include: server installation and configuration, site planning, supporting dynamic content with CGI's and ASP's, server maintenance and site security.

Prerequisite: CITA 110 and CITA 190, or permission of the instructor

3 credits (2 lecture hours, 2 laboratory hours), spring semester

### **CITA 312 - INTERMEDIATE COMPUTER GAME DESIGN AND APPLICATIONS**

The design of intermediate games and simulations, both for education as well as entertainment, will be explored in detail. Involves programming in a high-level scripting language and algorithmic development. Topics include 3D game/ simulation concepts, design components and processes, 3D game/ simulation worlds, 3D character/ vehicle/ terrain development, creating the user experience, core mechanics, and multi-tier client/ server support. A user-centric approach to design will be emphasized.]

Prerequisite: CITA 212 (with C or better), or permission of the instructor

3 credits (2 lecture hours, 2 laboratory hours), spring semester

### **CITA 320 - NETWORK ADMINISTRATION**

Students will use a variety of network management tools to manage, monitor, support and troubleshoot network operations. Topics will include performance issues, end-user accounts, data security, disaster recovery, supporting applications and documentation.

Prerequisite: CITA 230 or permission of the instructor

3 credits (2 lecture hours, 2 laboratory hours), fall semester

### **CITA 325 - NETWORK DEFENSE AND COUNTERMEASURES**

Network Defense and Countermeasures provides the student with a solid foundation in network security fundamentals; while with the primary emphasis is on intrusion detection, the course also covers such essential practices as developing a security policy and then implementing that policy by performing Network Address Translation, packet filtering, and installing proxy servers, firewalls, and Virtual Private Networks. Students will learn to design, configure and deploy an IDS and analyze current network security risks.

Prerequisite: CITA 270 and eligibility for Math 103, or permission of the instructor

3 credits (2 lecture hours, 2 laboratory hours), fall semester

### **CITA 330 - WEB PUBLISHING**

This course provides a comprehensive survey of Web publishing technologies and design. Students create a professional quality Web site and publish projects to a hosting site. Topics include HTML5, CSS3, database driven content, and responsive web. Design considerations include Web 2.0 design, simplicity, usability, information, hierarchy, navigation, and visual message.

Prerequisite: CITA 210 or CITA 240, or permission of the instructor

3 credits (2 lecture hours, 2 laboratory hours), fall semester

### **CITA 335 - INTERNET TECHNOLOGIES FOR ELECTRONIC DEPLOYMENT**

This course provides instruction on how Internet technologies provide an information-sharing architecture for electronic commerce (EC). Focusing on the architectural level, this course provides students with an understanding of how technologies enable business processes rather than how the technologies work. Strategy and management issues are examined in the context of important EC market segments. Case studies illustrate the skills students need to become managers of EC. An examination of commercial software package demonstrates how a team of managers, technologists, designers and others is required for commercial implementation of an EC strategy.

Prerequisite: BSAD 116 and CITA 125 or equivalent, and at least second-year status, or permission of the instructor.

3 credits (2 lecture hours, 2 laboratory hours), spring semester

### **CITA 340 - DATABASE CONCEPTS**

The course is a study of the theory, terminology, languages, and software associated with data base systems. Topics include data organization and structure, relational data-bases, data access methods, and database languages. Students will plan, analyze, design, develop, and test database systems. Current topics in database design and development are also discussed.

Prerequisites: CITA 210, or permission of the instructor

3 credits (2 lecture hours, 2 laboratory hours), spring semester

### **CITA 350 - OBJECT-ORIENTED SYSTEMS**

A study of object-oriented systems, including systems analysis and design and programming techniques. One or more graphical user interface object-oriented languages are used to build business application prototypes.

Prerequisite: CITA 210 or permission of the instructor

3 credits (2 lecture hours, 2 laboratory hours), spring semester

### **CITA 360 - OPERATING SYSTEMS AND SOFTWARE DEPLOYMENT**

This is a project oriented course which requires the installation and use of software found in business and industry. Students will gain experience implementing and deploying a variety of industry-wide software products including, but not limited to, operating systems (MS Windows, Macintosh, Linux, etc.), mail systems, backup, WSUS, office productivity suites, and virus protection software.

Prerequisite: CITA 200, CITA 190 recommended, or permission of the instructor

3 credits (2 lecture hours, 2 laboratory hours), spring semester

### **CITA 370 - NETWORK DESIGN CONCEPTS**

This is a laboratory-oriented course in which students will design and implement network systems utilizing the various topologies, media, protocols and network hardware, such as bridges, switches, hubs, and routers.

Prerequisite: CITA 230 or permission of the instructor

3 credits (2 lecture hours, 2 laboratory hours), spring semester

### **CITA 375 - INTERNET AND INTRANET FIREWALLS**

Firewalls are the primary tools used to prevent unauthorized access to network resources. This course focuses on protecting the network using various firewall designs. Students will gain extensive hands-on experience installing and configuring firewalls. Students will learn how to allow access to key services while maintaining information security.

Prerequisite: CITA 325 and Math 103 eligibility or permission of the instructor;

3 credits (2 lecture hours, 2 laboratory hours), spring semester

**CITA 380 - DYNAMIC GRAPHICS AND ANIMATION**

This is a survey of the use of dynamic graphics in user interfaces and animation in the simulation and visualization of information. Tools and techniques for the production of computer graphics and animation will be introduced and student projects will be required.

*Prerequisite: CITA 210 or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

**CITA 385 – USER INTERFACE DESIGN**

Design, evaluation, and prototyping of user interfaces for a variety of computing devices will be covered. This course focuses on user-centered design for interfaces that promote usability, interactivity, and accessibility. A range of interface types will be considered to include those for desktop applications, Web applications, mobile devices, turnkey systems, and others as technology continues to advance. Design and prototyping projects will be included. Evaluation techniques will be applied to existing interfaces and those created by students as part of this course.

*Prerequisites: CITA 210, or permission of the instructor*

*3 credits (3 lecture hours), fall semester*

**CITA 395 - INTERNSHIP ORIENTATION SEMINAR**

This course will be taken in the semester prior to the student's internship experience. Topics include the role of the internship in the student's professional development, formulating personal and professional goals, the current employment outlook in the Information Technology field, employer expectations of an intern, formulating a job search strategy, the role of networking through the use of personal contacts and referrals, interviewing skills, the work environment in large, medium and small organizations. The documents and methods that will be used to evaluate the student during the internship will be clearly defined.

*Prerequisite: At least junior status, or permission of the instructor*

*1 credit (1 lecture hour), 15 weeks, fall and spring semester*

**CITA 405 - PROJECT MANAGEMENT**

This course provides an introduction to project management. Students learn project management concepts and how to use appropriate tools and software to manage various types of projects from start to finish. Students are challenged with the wide range of issues professional project managers are required to master: planning, prioritizing, scheduling, budgeting, negotiation, organizing, controlling cost, and handling change. Project management applies to a wide spectrum of real-world projects both within and outside the technical sciences. This course emphasizes learning through lecture, homework, student participation and presentations. Class projects give students hands-on experience applying project management skills and use of software tools.

*Prerequisites: CITA 110 or CITA 101 and BSAD 300 or permission of instructor*

*3 credits (2 lecture hours, 2 laboratory hours), fall and spring semester*

**CITA 410 - MULTIMEDIA COMPUTING**

This course is a study of the simultaneous control of media elements including graphic, hypertext, digital audio, CD audio, MIDI, digital video and animation. Students will learn and apply the process of creating participant inter-active or self-running computer presentations.

*Prerequisite: CITA 380 or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

**CITA 412 – ADVANCED GAME DESIGN AND APPLICATIONS**

An in-depth study of complex, object-oriented, 2D and 3D game development including, but not limited to: animation, character modeling, textures, terrains, collision detection, particle effects, lighting, audio, and net-working. Students work in teams to produce a functional digital game suitable for distribution.

*Prerequisite: CITA 312 or permission of the instructor*

*3 credits (2 lecture hours, 2 lab hours), fall semester*

**CITA 420 – PROGRAMMING FOR THE WEB**

This course combines server-side, client-side and database programming to develop a dynamic Web application. Web technologies include HTML5, CSS3, OOP design, and SQL programming. Mobile/responsive web applications are emphasized. A Model View Controller (MVC) framework is developed. A semester long development project includes topics of database design, user authentication, roles, and privileges, managing user requests, dynamic

forms, security/data filtering, many-to-many design, unit testing, and naming conventions.

*Prerequisites: CITA 240 and CITA 330, or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

**CITA 425 - OPERATING SYSTEM SECURITY**

The course will provide in-depth explanations of operating system security features as well as systematic configuration guides for proper operating system configuration. This course also provides the knowledge and skills students need to maintain the integrity, authenticity, availability and privacy of data. Through extensive hands-on lab exercises, students will gain experience establishing user, file system, and network security for enterprise computing environments. Students will learn to use tools and utilities to assess vulnerabilities, detect configurations that threaten security and provide effective access controls.

*Prerequisites: CITA 325 and Math 103 eligibility or permission of the instructor;*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

**CITA 430 - COMPUTER INTEGRATION AND INTEROPERABILITY**

The study of system integration and the construction of system components that are designed to provide capabilities for cooperation in the accomplishment of given tasks. Topics covered include communication, synchronization, and representation of data. Methods of system integration and design for interoperability will be covered.

*Prerequisite: CITA 370 or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

**CITA 440 - DESIGNING AND MANAGING ORGANIZATIONAL TRAINING**

In this course students will apply theories of adult learning and instructional development to the design, delivery, and evaluation of training for organizational and end-user information systems. Topics include: needs assessment, instructional design and strategy, live and mediated instruction, implementation management, evaluation and follow-up methods, and evaluation of training strategies.

*Prerequisite: BSAD 300, or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

**CITA 450 - APPLIED DATABASE MANAGEMENT**

A study of object-oriented system applications including, but not limited to relational database concepts and methodology, SQL, ODBC, Access programming with VBA, client/server concepts, and SQL server. One or more graphical user interface, object-oriented languages will be used.

*Prerequisite: CITA 340 and CITA 350, or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

**CITA 460 - ORGANIZATIONAL AND END-USER INFORMATION SYSTEMS**

This course is a study of the management of organizational information systems. Relevant information technology and business concepts will be used to explore the role of information systems within organizations and the relationship of information systems to the external organizational environment. Emphasis will be on organizational results, attaining efficiency and effectiveness, and achieving competitive advantage in the global economy. Information systems management case studies will be utilized.

*Prerequisite: BSAD 300, senior status, or permission of the instructor*

*3 credits (3 lecture hours), fall semester*

**CITA 480 - INTERNSHIP IN INFORMATION TECHNOLOGY**

Supervised fieldwork in a selected business, industry, government or educational setting. Students carry out a planned program of educational experiences under direct supervision of an owner, manager or supervisor of information technology in an organization. Each intern will be supervised by a member of the CIT Department faculty in accordance with CIT Internship Guidelines. Written and oral reports of work experience activities will be required.

*Prerequisite: Enrolled in CIT Bachelor Degree Program, CITA 395 and senior status, or permission of the internship committee.*

*12 credits, fall, spring, or summer semester*



## COMPUTER SCIENCE

### COSC 111 - INTRODUCTION TO COMPUTER SCIENCE

An introduction to algorithms and programming using a contemporary programming language such as Python. Students learn object-oriented problem-solving, properties and qualities of algorithms, the software life cycle, data types, flow control, arrays, events, input, output, and interaction. By the end of the course, students will have written several computer programs and will have been exposed to many of the issues of interest to computer scientists.

*Co-requisite: MATH 102 or higher*

*3 credits (3 lecture hours), fall semester*

### COSC 111L - INTRODUCTION TO COMPUTER SCIENCE LABORATORY

Hands-on sessions where students apply the concepts and techniques covered in the lecture portion of the course. Students develop interactive applications with an object-oriented language such as Python that include graphics, user interfaces, simple games, and calculations.

*1 credit (2 laboratory hours), fall semester*

### COSC 112 – ELEMENTARY DATA STRUCTURES

Continuation of COSC 111 with emphasis on abstract data types and their implementation. Includes linked lists, stacks, queues, and trees, design and testing principles and software interfaces.

*Prerequisite: COSC 111 or equivalent with a grade of 'C' or better*

*4 credits (4 lecture hours), spring semester*

### COSC 201 - PROGRAMMING WITH C

General introduction to fundamentals of programming with the C programming language in a UNIX environment. Topics include: syntax and semantics, identifiers, data types, functions, arrays, strings, pointers, structures, unions, macros, and applied data structures. Emphasis is on systems programming and the use of standard libraries.

*Prerequisite: COSC or CIS major with programming experience or permission of instructor*

*3 credits (3 lecture hours), spring semester*

### COSC 211 - COMPUTER GRAPHICS TECHNIQUES

General introduction to the elements and techniques of creating programs that produce graphic images or analyze graphic content. Covers the basic shapes (points, lines, poly-objects, text, and circles) and transformations, and then advances to user interaction, animation, three-dimensional images, fractals and scene analysis.

*Prerequisite: Knowledge of Java or similar language and permission of instructor*

*3 credits (3 lecture hours), fall semester*

### COSC 221 - ASSEMBLY LANGUAGE PROGRAMMING

Basic concepts of computer systems, computer architecture, and programming in an assembly language. Representation and storage of information; components of the hardware; CPU architecture; instruction sets; addressing modes; using the debugger, linking modules, and macros; I/O ports and interrupts; DOS and BIOS services.

*Prerequisites: COSC 111 or equivalent, and MATH 145, or permission of instructor*

*3 credits (3 lecture hours), fall semester*

### COSC 231 - ADVANCED PROGRAMMING TECHNIQUES

Utilization and expansion of analysis and programming techniques developed in previous courses. This course covers various topics of current interest such as neural networks, genetic algorithms, artificial intelligence, finite state machines, and non-procedural languages. More sophisticated problem-solving techniques are utilized to address typical computing situations.

*Prerequisite: COSC 112 with a grade of C or better, or permission of instructor*

*3 credits (3 lecture hours), spring semester*

### COSC 232 - SOFTWARE DEVELOPMENT INTERNSHIP

Interns develop instructional interactive software applications for use by other departments on campus. Working as a team, interns learn firsthand about designing, creating, delivering, documenting, and maintaining software in a business-like environment.

*Prerequisite: COSC 112 and permission of instructor*

*1-3 credits (1-3 laboratory hours), fall or spring semester*

## CRIMINAL JUSTICE

### CJUS 101 - INTRODUCTION TO CRIMINAL JUSTICE SYSTEMS\*

A survey course which examines the linkages which exist between and among the police, courts, prosecutors, corrections, probation and parole.

*3 credits (3 lecture hours)*

*This course satisfies the Liberal Arts and Sciences requirement.*

### CJUS 201 - CORRECTIONS

An introduction to community, county, state and federal correction procedures and administration. This course examines punishment, rehabilitation and incarceration. Legal issues and the complexities of prison management are also explored.

*Prerequisite: CJUS 101: Introduction to Criminal Justice*

*3 credits (3 lecture hours) spring semester*

### CJUS 202 - POLICING

This course will examine the role of policing in a democratic society. The roles, responsibilities and behaviors of police will be studied. This course also gives attention to ethics and appropriate use of discretion.

*Prerequisite: CJUS 101 Introduction to Criminal Justice*

*3 credits (3 lecture hours) fall or spring semester*

### CJUS 220 - CRIMINAL INVESTIGATION I

An introduction to the science of criminal investigation. Students learn information/evidence gathering, surveillance, interview, interrogation, use of informants and instrumentation techniques used in investigations of arson, narcotics, sex offenses and larceny crimes.

*Prerequisite: CJUS 101 Introduction to Criminal Justice CJUS 202 Policing or permission of the instructor*

*3 credits (3 lecture hours); fall or spring semester*

### CJUS 221 - CRIMINAL INVESTIGATION II

A continuation of the science of criminal investigation. This course addresses the information gathering, interrogation and instrumentation used in investigations of homicide, assault and explosions. Rules of evidence, fingerprints, castings, firearms, trace minerals and criminal profiles are emphasized.

*Prerequisite: CJUS 220 or permission of instructor*

*3 credits (3 lecture hours) fall or spring semester*

### CJUS 230 – BASICS OF PENAL LAW

An examination of the penal code and legislatively imposed legal parameters on law enforcement and citizens. Students will learn how to read and evaluate laws, to differentiate between numerous degrees of similar offenses, and apply the laws appropriately.

*Prerequisite: "C" or better in COMP 101*

*Prerequisite or Co-requisite: CJUS 101*

*3 credits (3 lecture hours) fall semester*

### CJUS 231 - CRIMINAL PROCEDURE LAW

An examination of Criminal Procedure Law and its impact on law enforcement. Topics will include arrests, warrants, and rules of evidence. Court and Grand Jury procedures will be addressed.

*Prerequisite: "C" or better in COMP 101*

*Prerequisite or Co-requisite: CJUS 101*

*3 credits (3 lecture hours) spring semester*

### CJUS 235 – JUVENILE DELINQUENCY

Social pressures on children in our society that push them toward deviant behavior are focused on in this course. Power structure, class and caste urbanization, minority groups, and the effects of technological change concurrent with urban growth. Family, peer group, gang and slum subcultures as influences in development of the delinquent role. Methods of prevention, treatment and correction.

*Prerequisite: PSYC 101 or SOCI 101*



3 credits (3 lecture hours) spring semester

This course satisfies the Liberal Arts and Sciences requirement.

### **CJUS 301- CRIME SCENE INVESTIGATION AND MANAGEMENT**

This course addresses the scientific and legal components of crime scene management and investigation. Methods of scene control, evidence collection, documentation, photography, and investigation are explored. Laws and court decisions and admissibility of evidence are emphasized.

*Prerequisite:* CJUS 221

3 credits (2 lecture hours, 2 lab hours) fall or spring semester

### **CJUS 310- SERIAL MURDER AND CRIMINAL JUSTICE**

This course will examine the unique phenomenon of serial murder. Distinct from other forms of multiple murders, various types of serial murder will be studied along with definitions and ramifications and difficulties of apprehension. Other topics include the serial killer myths, race and gender, the impact of the media, profiles and possible criminological explanations. Students should be aware that due to the nature of the topic, graphic sexual and violent descriptions and images may be presented as part of this course.

*Prerequisite:* CJUS 202 Policing

3 credits (3 lecture hours), spring semester

### **CJUS 311- INTERVIEWING TECHNIQUES IN CRIMINAL JUSTICE**

Interviewing Techniques in Criminal Justice addresses interviewing techniques of suspects and witnesses. Overcoming resistance, interviewing people under adverse or stressful circumstances and the detection of lies will be emphasized.

*Prerequisite:* CJUS 221

3 credits (3 lecture hours) spring semester

### **CJUS 312 - VICTIMIZATION**

This course examines the plight of victims and their relationships with the criminal justice officials and agencies, policymakers, victim right advocates, the news media, offenders, security businesses, and service providers. Practical responses to victimization will be discussed.

*Prerequisite:* CJUS 202 Policing or permission of the instructor.

3 credits (3 lecture hours), fall semester

### **CJUS 313 – SEXUAL OFFENSES**

This course examines the roles of the criminal justice, treatment, and victim advocacy communities in the management of sexual offenses. The practical application of emerging research and best practices will be appraised.

*Prerequisite:* CJUS 202

1 credit (1 lecture hour)

### **CJUS 314 – DIVERSITY WITHIN CRIMINAL JUSTICE SYSTEMS**

This course will examine the issues surrounding diversity within the criminal justice employment and its relations within the community and clientele, encompassing racism, sexism, ageism, and bias against the disabled. The role of media and special interest groups will be evaluated. The practical application of emerging research and best practices will be appraised.

*Prerequisite:* COMP 101 and CJUS 101 or permission of the instructor

1 credit (1 lecture hour), spring semester

### **CJUS 315 - WHITE COLLAR CRIME**

White Collar Crime addresses the illegal, unethical or deviant activity of institutions or individuals conventionally considered respectable or of high status. Students will explore the policing, prosecution and impact of white collar crime.

*Prerequisite:* CJUS 202

3 credits (3 lecture hours) fall or spring semester

### **CJUS 316 – ANIMAL ABUSE INVESTIGATIONS**

This course explores the complex physical and emotional components of animal abuse. Students will learn the basics of animal abuse investigations and the limitations of law.

*Pre-requisite:* CJUS 101 Introduction to Criminal Justice or permission of the instructor

1 credit (1 lecture hour)

### **CJUS 401 – EMERGENCY PLANNING AND RESPONSE**

Emergency and security staff strategize and execute plans to prevent loss of persons and property for communities and businesses. This course will focus on planning considerations and technology, including the use of the Internet, GIS and GPS tools, direct and remote sensing, and warning systems.

*Prerequisite:* CJUS 221

3 credits (3 lecture hours) fall or spring semester

### **CJUS 402 – TERRORISM AND LAW ENFORCEMENT**

This course addresses terrorism and its implications on law enforcement and domestic tranquility. The class will examine the terrorist profile and motivations. The impact of law enforcement's response on civil rights will be emphasized.

*Prerequisite:* CJUS 221 and junior status

3 credits (3 lecture hours) fall semester

### **CJUS 403 – PRIVATE SECURITY**

This course will introduce students to the US Private Security Industry. Focusing on practical, real-world concepts, this course will address retail, business, employment, personal, premises, and other forms of security with professionalism and ethics.

*Prerequisite:* CJUS 301 Crime Scene Investigation and Management.

3 credits (3 lecture hours), fall semester

### **CJUS 404 – USE OF FORCE CONTINUUMS**

Appropriate application of use of force to gain lawful compliance and personal protection impacts law enforcement and citizens. This course examines use of force continuums, emotional and physical impacts, the courts, and the public response.

*Prerequisite:* CJUS 202

1 credit (1 lecture hour), spring semester

### **CJUS 405 – CRIME SCENE PHOTOGRAPHY**

The specialized skills of crime scene photography encompasses an understanding of cameras, lighting, filters and crime scene priorities. Video cameras will also be examined.

*Prerequisite:* CJUS 220 Criminal Investigation I,

1 credits (1 lab hours)

### **CJUS 412 ARSON AND BOMB INVESTIGATIONS**

This course addresses arson and bomb investigations including the science of combustion of liquid, gas, and solid fuels in fire and bombs. Specific scenes, such as vehicles, structures, and the wilderness, will be examined as a means to study the behavior of fires and the courses of investigation.

*Prerequisite:* CJUS 221

3 credits (3 lecture hours) spring semester;

### **CJUS 414 - INVESTIGATION OF STAFF MISCONDUCT AND WORKPLACE VIOLENCE**

This course provides the theoretical and practical tools to investigate staff misconduct and workplace violence.

*Prerequisite:* CJUS 221

3 credits (3 lecture hours) fall semester

### **CJUS 449 - CRIMINAL JUSTICE INTERNSHIP PREPARATION**

This course prepares the student for a full time internship in the criminal justice field. Also reviewed are career options within the discipline including law enforcement and private security. Job skills will be discussed.

*Prerequisite:* Successful completion of at least 90 credits of criminal justice degree requirements. Usually taken in the semester immediately preceding internship.

1 credit (3 lecture hours/5 weeks) fall or spring semester

### **CJUS 450 - CRIMINAL JUSTICE INTERNSHIP**

The full-time internship is designed to immerse students into the Criminal Justice profession through an assignment at a pre-approved site.

*Prerequisite:* Grade of "C" or better in CJUS 449 and successful completion of 107 credits of criminal justice degree requirements.

15 credits, fall or spring semester

## CULINARY ARTS

### CUL 101 CULINARY ARTS I

An introduction to the principles, skills and techniques necessary for basic food preparation. Areas of culinary study will include the understanding and performing of a wide variety of cooking techniques. Broiling, Roasting, Sautéing, Grilling, Braising, Steaming and Stir Frying will be studied and learned to prepare basic and advanced menu items. The proper use of commercial kitchen equipment and recipes, basic sanitation and safety techniques in the kitchen will be practiced. Culinary terminology and product identification will be a focus. Majors Only

*4 Credits (1 lecture hour, 6 lab hours), fall semester/spring semester*

### CUL 111 PROFESSIONAL BAKING

An introductory course in the principles of baking, with emphasis on bakeshop ingredients, their function, measurement, and scaling. Scratch baked items to include quick breads and muffins, yeast breads, cookies, Danish pastries, cakes, pies, custards, creams and sauces. Majors Only

*3 Credits (1 lecture, 4 lab hours), fall/spring semester*

### CUL 201 ADVANCED CULINARY ARTS

A continuation on the principles, skills and techniques learned in Culinary Arts I. Areas of culinary study will include intense concentration on the understanding and performing of a wide variety of cooking techniques. Students will prepare advanced menu items while utilizing scratch cooking for all recipes whenever possible. Students will be able to convert recipes to provide purchasing lists and then fabricate portions from primal and sub primal cuts of meat and then produce those food items. Students will also continue to use basic sanitation and safety techniques in the kitchen.

*Prerequisite: CUL 101 Minimum grade of C*

*4 Credits (1 Lecture Hour, 6 Laboratory Hours), fall semester*

### CUL 211 Culinary Restaurant

This course is designed to give students a realistic view of a functioning restaurant operation. Students receive hands on experience in how to effectively manage, operate, and maintain a fine dining restaurant operation at the Copper Turret Restaurant in the village of Morrisville. Working alongside professional chefs, servers and bartenders, students will plan, prepare and serve a fine dining menu in an upscale facility. Students will be tasked with developing menu items from a variety of cuisines. Students will learn how to construct menus, pair wines with the menus, and present food products properly for service. Students will rotate through all positions in the restaurant to gain practical experience. Emphasis is placed on menu authenticity, proper management techniques as well as fiscal responsibility.

*Prerequisites: CUL 101, CUL 111, and FSAD 102*

*6 Credits Spring (1 lecture hour, 12 laboratory hours), spring semester*

### CUL 301- ADVANCED CULINARY SKILLS

This course focuses on refining the students culinary skills learned in previous classes. Students will master skills in cold platter presentation, glazing meat and fish, carving, and garnishing. Students will refine their skills in fabrication of beef, poultry, veal, lamb, game meats, lobster, round fish and flat fish. Menus for various types of dinners will be created. Vegetable knife cuts will be a focus as students demonstrate mastery of the various cuts required to meet industry standards. Basic baking and pastry skills will be practiced and students will demonstrate mastery of producing a short dough and pastry cream. The course will prepare the student for the exciting and challenging aspect of the culinary competition and teach students how to successfully prepare for various competitions. Students build on previously learned skills and will train to meet the demands of culinary competition. The student will work on developing a mental thought process and understanding of the discipline needed to be properly prepared for culinary competitions. Each student will learn how to craft a professional entry packet for hot food competitions following American Culinary Federation requirements. Students will complete a cold food entry for an in-house competition. Opportunities may exist for students to take part in official American Culinary Federation competitions.

*Prerequisites: CUL 111 and CUL 201 or permission of instructor.*

*4 Credit Hours (1 lecture hour, 6 lab hours) fall semester*

## DAIRY - ANIMAL SCIENCE

### DASC 100 – DAIRY CATTLE FEEDING MANAGEMENT – SHORT COURSE

An introduction to the management of feeding cattle, including forage storage, feed rates from storage, management of the feed bunk, mixing of feed, body condition scoring, lameness, cow comfort, and sampling of feed for analysis. The 2 credit option offers more in-depth exposure and analysis on all topics and will contain additional course material.

*1 credit option (1.5 lecture hours, 1.5 lab hours per week for 6 2/3 weeks)*

*2 credit option (1.5 lecture hours, 1.5 lab hours per week for 13 1/3 weeks) Offered during a winter term from November 1 – April 15*

### DASC 111 - DAIRY BREEDING - SHORT COURSE

This course covers breeding, including animal reproduction, male and female reproductive anatomy and physiology, hormonal control of the reproductive system, the estrous cycle, fertilization, and reproductive failures.

*DASC 111 combined with DASC 112 will substitute for the three-credit DANS 110.*

*2 credits (1.5 lecture hours/week, 1.5 laboratory hours/week), total of 20 lecture hours plus 20 laboratory hours, 13 1/3 weeks*

*Offered during a winter term from Nov. 1-March 15.*

### DASC 112 - DAIRY BREEDING II - SHORT COURSE

This course covers animal breeding including animal reproduction and offers an in-depth look at reproductive programs to achieve cattle pregnancies. The course provides a hands-on approach where students will be practicing reproductive management daily. Introductory dairy cattle genetics will be discussed.

*DASC 112 combined with DASC 111 will substitute for the three-credit DANS 110.*

*1 credit (10 lecture hours/week, 10 laboratory hours/week), total of 10 lecture hours plus 10 laboratory hours, 1 week*

*Offered during a winter term during one week of January*

### DASC 211 – DAIRY HERD HEALTH – SHORT COURSE

Physiology, anatomy and health of the dairy cow. Emphasis on hygiene, disease prevention, herd health programs, and routine disease and injury treatment.

*Prerequisite: Sufficient dairy experience as determined by the instructor*

*1-2 credits (1.5 lecture hours per week, 1.5 laboratory hours per week) Offered during a winter term from November 1 to April 15.*

### DANS 100 - DAIRY NUTRITION

Functions and properties of nutrients, comparative digestive anatomy of non-ruminants and ruminants, the effects of proper nutrition on health and reproduction. Labs will deal with the composition and nutritive value of feeds and ration balancing for different classes of livestock. Emphasis on dairy cattle.

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### DANS 110 - DAIRY BREEDING

Animal breeding including animal reproduction and basic genetics. Male and female reproductive anatomy and physiology, hormonal control of the reproductive system, the estrous cycle, fertilization, reproductive failures, diseases and management practices associated with reproduction and artificial insemination. Mendelian genetics utilizing simple dominance, sex influenced inheritance and systems of mating.

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### DANS 115 - DAIRY ARTIFICIAL INSEMINATION

Provides students with skills associated with the modern concept of artificial insemination. Topics include history, economic importance, equipment, techniques, estrous cycle of the cow, timing of insemination, and record keeping.

*1 credit (1 lecture hour), spring semester*

### DANS 120 - ANATOMY AND PHYSIOLOGY OF THE DAIRY COW

A systematic introduction to the anatomy and physiology of the dairy animal, emphasizing structure and function. The practical aspects that relate to type, production, health, management and general knowledge are stressed. The laboratory follows the lecture course with a more in-depth application of lecture

material in regards to functional anatomy. Lab includes dissection of fresh tissues.

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

#### **DANS 140 - DAIRY CATTLE JUDGING**

Judging, selecting and evaluating dairy cattle according to breed type qualifications to develop a well-balanced breeding program for milk production and type.

*1 credit (2 laboratory hours), fall semester*

#### **DANS 150 - DAIRY FARM PRACTICUM**

Hands-on practical experience in a commercial dairy operation at the college farm.

*1 credit, fall and spring semester*

#### **DANS 151 - DAIRY TECHNIQUES**

This course will focus on the refinement and development of Dairy Management skills involving all aspects of the dairy operation. Students will be responsible to attend to various needs of the dairy animals to include birth, calf raising, feeding, heat detection, animal comfort, data collection and entry. Increased emphasis will be placed on facility and employee management placing students in roles of supervisors in charge of action lists and student work schedules.

*1 credit (45 laboratory hours), fall and spring semester*

#### **DANS 160 - INTRODUCTION TO DAIRY SCIENCE**

An introductory course to the dairy industry with a focus on its evolution and the scope of New York's, United States' and the world's industry. It will include discussion of farm types, production techniques, breeds of cattle, cattle behavior and selection, economics and trends. Dairy products will be studied, as well as consumer trends, milk quality and processing, a section on farm organization, cooperative careers, farm management structure and the future of the industry will be included. The lab will supplement the lecture and will include animal behavior, marketing, performing milk quality tests, and field trips.

*3 credits, (2 lecture hours, 2 laboratory hours), fall semester*

#### **DANS 200 - NUTRITIONAL MANAGEMENT OF DAIRY CATTLE**

Complete nutritional program assessment emphasizing analysis of crop production, forage analysis, ration balancing, pasture management, feeding strategies and feeding systems for optimum production and profit on a dairy farm. Computer applications, on-farm visits, and introduction to advanced technology will be included.

*Prerequisite: DANS 100*

*2 credits (1 lecture hour, 3 laboratory hours), spring semester*

#### **DANS 210 - DAIRY HEALTH**

Physiology, anatomy and health of the dairy cow. Emphasis on hygiene, disease prevention, herd health programs, and routine disease and injury treatment.

*Prerequisite or Co-requisite: DANS 151*

*3 credits (3 lecture hours), fall semester*

#### **DANS 220 - DAIRY HERD MANAGEMENT**

The focus is on the dairy industry as a business enterprise, its history, future, productivity trends, milk production and management strategies to be competitive and profitable. Discussion on the application of scientific principles associated with progressive dairy cattle management including breeding systems, feeding systems, herd health practices, dairy herd replacements and heifer programs. Lab will include computer applications on the farm, de-horning, hoof trimming, herd health monitoring, dairy records interpretation and analysis, and assessing housing and cow comfort.

*Prerequisite or Co-requisite: DANS 150*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

#### **DANS 225 - DAIRY PRODUCTION AND MANAGEMENT**

This course is designed to study bovine mammary system, anatomy and physiology, milk secretion and ejection, milking machines, mastitis and prevention to attain high efficiency milk production. Herd record evaluation and use of Dairy management software will be used for production analysis.

Students will work in teams and become assistant herd managers. The course will also include topics on housing systems and cost effective housing. Guest speakers, professional conferences and field trips will be part of the course.

*Prerequisite or Co-requisite: DANS 150, DANS 151*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

#### **DANS 235 - DAIRY PRODUCTION SEMINAR**

A course in seminar format where students, with the help of faculty and guest speakers, complete a study of dairy production literature and applications on topics in the dairy industry. The course is intended for students to gain technical and production knowledge of contemporary topics in the dairy industry by reinforcing course work with real-life applications.

*Prerequisites: DANS 100, DANS 115, DANS 210, DANS 220*

*1 credit (1 lecture hour), spring semester*

#### **DANS 250 - DAIRY PERSPECTIVES**

Principles and procedures involved in the management of a dairy business. Topics include setting personal and business goals; business planning and development; business analysis and capital investment; cash flow planning; economics and management dealings with facility planning; feeding efficiencies; environmental and community concerns; and leadership roles in tomorrow's dairy industry.

*1 credit (1 lecture hour), spring semester*

#### **DANS 255 - DAIRY MANAGEMENT FELLOWSHIP**

The program is for students with a serious interest in farm management. Objectives are to gain a better understanding of the integration and application of dairy farm management with respect to principles and programs with respect to progressive dairying and related industries. Topics include the trends, challenges, and positioning of dairy managers in businesses for competitiveness and profitability. Topics will integrate technical and management aspects of a farm business including establishing personal and business goals, business and planning development, business capital investment analysis, cash flow planning, and feeding efficiencies.

*Prerequisites: At least two of the following: DANS 100, DANS 115, DANS 210, DANS 220, AGBS 240*

*2 credit hours (2 lecture hours), spring semester*

#### **DANS 260 - INTRODUCTION TO THE STUDENT HEIFER APPLIED RESEARCH AND RAISING PROGRAM (SHARRP)**

The program is designated for students who have a sincere interest in dairy replacement management and applied research and demonstration. Objectives are to gain further understanding of the integration and application of technical principles in a management setting involving the dairy replacement program at SUNY Morrisville.

*Prerequisites: DANS 100, DANS 115, DANS 210; DANS 220, and AGBS 240*

*2 credits (limited to seniors), spring or fall semester*

#### **DANS 300 - INTERNSHIP IN DAIRY HUSBANDRY**

This internship involves students working in an approved job in the dairy industry. A journal, written report, employer and faculty evaluation are required upon completion of the internship.

May be taken 2 times for credit if each is a different learning experience. Instructor permission required for each internship.

*4 credits (12 weeks, 480 hours minimum), fall and/or spring semester*

#### **DANS 301 - DAIRY MANAGEMENT EXPERIENCE**

The Cornell Dairy Management Experience (CDME) consists of courses and the modules that are required for the Bachelor of Technology in Dairy Management. Students, in the spring semester of their junior year, will spend one semester in residency at Cornell University taking courses through the Department of Animal Science. The syllabus consists of courses and modules that place emphasis on practical technical and management applications in dairy herd management, herd health, dairy nutrition, and farm finance.

*Prerequisites: DANS 100, DANS 110, DANS 120, DANS 140, DANS 151, DANS 160, DANS 210, DANS 220, DANS 225, DANS 250, AGBS 100, AGBS 200, AGBS 240*

*16 credits (limited to juniors in the BT Dairy Management), spring semester*

### DANS 305 - DAIRY HEIFER REPLACEMENT AND MANAGEMENT

This course is designed for students who have a sincere interest in dairy replacement management and the production practices associated with economical rearing of heifer replacements. Those considering career positions as calf and heifer managers should strongly consider taking this course. The objectives are to gain further understanding of the integration and application of management and technical principles associated with the heifer enterprise from the time the calf is born to the first calving. This includes the economics, feeding, health, facilities and management of the heifer enterprise in today's industry.

*Prerequisites:* DANS 100, DANS 115, DANS 210, DANS 220, AGBS 240

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### DANS 340 - ADVANCED DAIRY REPRODUCTION

This course is designed to study the dairy cattle reproductive system and provide students with expertise in managing herd reproductive programs effectively. Students will study in depth the anatomy and physiology of the male and female reproductive tracts, understand hormonal controls of the estrous cycle and be able to manipulate the estrous cycle with approved hormone therapies. Students will be responsible for herd heat detection and some artificial inseminations. Students will work with reproductive records, herd managers and artificial insemination technicians to manage the dairy herd's reproductive program.

*Prerequisites:* DANS 110, DANS 115, or permission of instructor

*3 credits (2 lecture hours, 3 laboratory hours), alternate years, odd years*

### DANS 450 - ADVANCED DAIRY HERD MANAGEMENT

Students will gain experience in managing a dairy herd with major emphasis placed in the areas of milking management, dairy nutrition, herd health and labor relations. Students will form a direct working relationship with dairy/farm managers, farm staff and industry professionals to effectively manage the dairy facilities at Morrisville State College. Students will be actively involved in gathering, organizing and analyzing data and records on the college farm. Students will use this information to generate weekly reports and will make effective weekly reports and recommendations for improvements in different areas on the dairy operation. Students will have additional opportunities to attend professional meetings in preparation for a career in the dairy industry.

*Prerequisite:* A "C" or better in DANS 100, DANS 110, DANS 115, DANS 120, DANS 150, DANS 151, DANS 210, DANS 220, DANS 225 Or permission of Instructor

*4 credits (1 lecture hour, 9 laboratory hours), fall semester*

### DANS 451 - ADVANCED DAIRY HERD MANAGEMENT II

This course is a continuation of DANS 450, Advanced Dairy Herd Management I. Students will gain a practical, hands-on experience in managing a dairy herd with a more detailed major emphasis in the areas of milking management, dairy nutrition, herd health and labor relations. Students will work directly with the dairy herd manager at Morrisville State College to gather, organize and analyze data and records on the college farm. Students will also be actively involved in working independently with industry personnel and representatives to gain additional hands-on experience and knowledge of relevant topics in the dairy industry. Students will have opportunities to attend professional meetings in the dairy industry that prepare them for a professional career in the dairy industry.

*Prerequisites:* DANS 450 or permission of instructor

*4 credits (1 lecture hour, 9 laboratory hours), spring semester*

## DIESEL TECHNOLOGY

### DTEC 105 - DIESEL POWERTRAINS I

A course covering the operation, diagnosis, and repair of power transmission components on Heavy Equipment and Over-The-Road Tractors. Topics addressed will include: Clutches, Standard Transmissions, Torque Converters, Automatic Transmissions, and Drive shafts.

*4 credits (3 lecture hours, 2 laboratory hours), spring semester*

### DTEC 110 - DIESEL POWERTRAINS II

A course covering the operation, diagnosis, and repair of chassis components on Heavy Equipment and Over-The-Road Tractors. Topics addressed will include:

Chassis systems, alignment, PTOs, single and tandem rear axles, springs, shocks and other suspension components, tires, wheels, and bearings, and braking systems including ABS and brake chamber servicing.

*4 credits (3 lecture hours, 2 laboratory hours), spring semester*

### DTEC 125 - DIESEL ELECTRICAL SYSTEMS

An introduction to the fundamentals of electricity and their application in diesel engines and equipment. Basic theory of AC and DC systems used for charging, starting, lighting, and accessory circuits is covered. Lectures emphasize understanding of common circuit configurations and sample wiring schematics. Labs emphasize testing of components, troubleshooting circuits, and common repair techniques.

*4 credits (3 lecture hours, 2 laboratory hours) fall semester*

### DTEC 150 - DIESEL SYSTEMS

Theories and principles of diesel operation and construction. Engine removal, inspection, disassembly, part analysis, and rebuilding. Engine run-in, dyno testing, and principles of troubleshooting will be discussed.

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### DTEC 151 - SEMINAR IN CATERPILLAR POWER SYSTEMS

Theories and principles of caterpillar diesel engines, operation and construction, engine removal, inspection dis-assembly and rebuild are covered in this course. Caterpillar-specific software and reference material will be used.

*Co-requisites:* DTEC 150 or permission of the instructor.

*2 credits (1 lecture hour, 2 laboratory hours), fall semester*

### DTEC 250 - MECHANICAL INJECTION SYSTEMS

Principles of injection systems, design, and construction of different systems. Inspection, tear down, and service of various components. Use of special testing and calibrating equipment. Special emphasis on diesel equipment used on farm tractors and power equipment.

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### DTEC 225 - DIESEL ELECTRONICS

A continuation of DTEC 125. Expanding on basic AC and DC theory, to include multiplexing, active and passive sensors and digital electronics, this course addresses more complex wiring schematics, sensor troubleshooting and wiring harness repair. Students will use diagnostic equipment, lap top computers and current manufacturers' software and communication adapters to analyze and repair digital electronic systems found on construction, on highway, agricultural and electric power generation systems.

*Prerequisite:* DTEC 125

*Pre-or Co requisite:* MAGN 101, or by permission of instructor

*4 credits (3 lecture hours, 2 laboratory hours) spring semester*

### DTEC 290 - DIESEL EQUIPMENT TECHNOLOGY INTERNSHIP 1

This course is designed for Diesel Equipment Technology majors to complete a limited time internship as part of their program. The student must select a diesel industry employer to work for during a college break most likely during the winter break. Students will be introduced to on-the-job skills as well as interpersonal skills necessary to maintain a job.

*Prerequisites:* DTEC 150, AGEN 100, permission of instructor, overall GPA of 2.0.

*1 credit, spring semester (internship to take place during winter break)*

### DTEC 295 - DIESEL EQUIPMENT TECHNOLOGY INTERNSHIP 3

This course is designed for Diesel Equipment Technology majors to complete a limited time internship as part of their program. The student must select a diesel industry employer to work for during a college break most likely during the winter break. Students will be introduced to on-the-job skills as well as interpersonal skills necessary to maintain a job. Concentration will be on advanced skills and management systems.

*Prerequisites:* Final semester status in diesel program, permission of instructor, overall GPA of 2.0.

*1 credit, spring semester (internship to take place during winter break)*



### DTEC 300 - DIESEL EQUIPMENT TECHNOLOGY INTERNSHIP 2

This course is designed for Diesel Equipment Technology majors to complete a summer internship as part of their program. The student must select a diesel industry employer to work for during the summer (or other extended break from college) between their first and second year of study. Students will learn on-the-job skills as well as interpersonal skills necessary to maintain a job.

*Prerequisites:* DTEC 150, AGEN 100, DTEC 125, DTEC 105, permission of instructor, overall GPA of 2.0.

*4 credits, fall semester*

### DTEC 325 – ELECTRICAL POWER GENERATION

Students will develop the knowledge and skills necessary to install, troubleshoot and service on-site power generation systems up to 50kW. This course emphasizes various generator types driven by both typical and atypical methods. Instruction is provided in the areas of diesel and gaseous fueled engines, control systems and governors. Advanced instruction is provided in electrical components necessary in the generation, storage, conversion, switching, and transmission of electric power. Students develop the practical skills needed to work with on-site electrical power generation equipment and related systems.

*Prerequisites:* DTEC 125 or ELEC 190 & DTEC 150 or AGEN 210 or by permission of instructor

*Co-requisites:* MAGN 101

*3 credits (2 hours lecture, 2 hour lab), fall semester*

### DTEC 350 - ADVANCED DIESEL FUEL SYSTEMS

A continuum of DTEC 250 involving more advanced concepts of diesel engines, injection systems, two and four cycle engines, use of advanced testing and calibration equipment. Electronic control of diesel fuel injection systems, operating principles and computer diagnostics will be addressed.

*Prerequisite:* DTEC 250

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### COMPUTER-AIDED DESIGN TECHNOLOGY

### DRFT 151 - ENGINEERING DRAWING

Introduction to the graphic language, conventions, and tools of sketching and technical drawing. Topics include lettering, geometric constructions, multiview projection, dimensioning, sectional and auxiliary views, and geometric tolerancing.

*Co-requisite:* MAGN 101

*2 credits (1 lecture hour, 2 laboratory hours), fall semester*

### DRFT 252 - GEOMETRIC DIMENSIONING AND TOLERANCING

This course covers functional dimensioning, tolerancing and design principles and applications based on ASME Y14.5M - the international engineering language used to communicate the size, form, orientation, and location of part features. Topics include fundamental rules, symbology, tolerance expression and interpretation, datums, fit systems, inspection techniques and design for manufacture.

*Prerequisite:* CAD 186, MATH 102

*2 credits (4 laboratory hours), fall semester*

## EARLY CHILDHOOD

### ECHD 101 – INTRODUCTION TO EARLY CHILDHOOD

This course is an introduction to the essentials of quality early childhood programs, current issues and career opportunities in early childhood education. It provides a comprehensive overview of learning theories, family involvement and contemporary issues in the field including diversity, classroom inclusion and integration of curriculum. Students will observe early childhood programs and/or classrooms.

*Prerequisites or Co-requisite:* None

*3 credits (3 lecture hours), fall semester*

### ECHD 102 - SOCIAL DEVELOPMENT AND POSITIVE GUIDANCE

This course examines the social development of young children from birth to age eight from a positive child guidance perspective. Theoretical foundations related to child development will be explored in conjunction with the implementation

of various models to effectively support young children in a global community. Topics will include: stages of social/emotional development of children from 0-8 years old, defining and distinguishing problem behaviors, adopting appropriate guidance techniques for developing self-control and accountability in young children and structuring the classroom environment and curriculum to teach pro-social skills. Understanding and working with children with special needs in an inclusive setting, identifying and promoting culturally sensitive guidance, working with families and communities as partners and resources will be integrated throughout the course.

*Prerequisite:* ECHD 101

*3 credits (3 lecture hours), spring semester*

### ECHD 103 - TECHNIQUES OF OBSERVATION AND ASSESSMENT-FIELD I

This course introduces students to observation and assessment techniques that are needed to understand and interpret young children's growth and development in order to meet the individual needs of children in a diverse population. Students will examine formal and informal assessments of physical, cognitive, language and social/emotional development. Current methods, confidentiality and professionalism will be stressed. Students will have the opportunity to practice the techniques and assessments through the semester in a field placement setting.

*Prerequisite:* ECHD 101

*Prerequisite or Co-requisite:* ECHD 102, PSYC 241 or Permission of Instructor

*3 credits (2 lecture hours/2 lab hours), spring semester*

### ECHD 201 - FAMILY AND CHILD HEALTH, SAFETY, AND NUTRITION

This course will examine the health, safety and nutritional needs of children birth-8 years. The unique needs of early childcare settings will be addressed and include the following topics: personal hygiene, safety practices, nutritious meals, chronic conditions and health policies. In addition, students will explore the variety of environmental, behavioral and constitutional factors which influence health within the family, the childcare setting and the community. Investigation of current issues and community agencies will be included.

*Prerequisites:* ECHD 101

*3 credits (3 lecture hours), fall semester*

### ECHD 202 - LANGUAGE, LITERACY AND LITERATURE IN EARLY CHILDHOOD

This course examines the development of language and literacy in young children from birth through the primary years. Theoretical foundations and various models that support young children's early literacy will be explored. Other topics included are: working with families to support literacy development, assessing early literacy development, integrating literacy throughout the curriculum, and selecting quality literature that addresses cultural, racial, linguistic, religious, gender, age and family diversity. Students will be given the opportunity to explore all genres, and a student-created children's book will be a culminating project. A two hour community project involving reading to children is required.

*Prerequisites:* ECHD 103 or Permission of Instructor

*3 credits (3 lecture hrs.), fall semester*

### ECHD 203 - INFANTS AND TODDLERS

This course focuses on the development of high quality programs for infants and toddlers in group care, providing for their physical, social/emotional and cognitive needs. Understanding the significance of providing sensory rich and stimulating environments, experiences and relationships with infants and toddlers will be the foundation for developing programs. Developmentally and culturally diverse approaches, techniques and materials will be emphasized as well as setting up positive and nurturing learning and growing environments. Students will learn the importance of the caregiver's role, building relationships with parents and the significance of early intervention. The role of a professional and professionalism will be stressed. There will be a minimum of one infant and one toddler observation experiences in child care settings.

*Prerequisites:* ECHD 103, PSYC 241 or Permission of Instructor

*3 credits (3 lecture hours), fall semester*

### ECHD 204 – CHILDREN WITH SPECIAL NEEDS

This course is intended to provide students with knowledge of the nature

and requirements of children and families with special needs in the areas of health, sensory, physical, developmental, learning and behavior disorders as well as traumatic brain injuries and giftedness. The significance of early identification, assessment and intervention will be emphasized. Students will learn about Federal and State laws and regulations including the Individuals with Disabilities Education Act and the placement of students in special education settings and mainstream classroom inclusion. The emphasis will be on ways to adapt curriculum and the environment to meet the needs of a diverse population of children within the context of an inclusive classroom. Students will have the opportunity to observe children in different settings and participate in the development of developmentally appropriate anti-bias activities for children.

*Prerequisites:* ECHD 201, ECHD 202, ECHD 203 or *Permission of Instructor*  
*3 credits (3 lecture hours), spring semester*

### **ECHD 205 - CREATIVE ACTIVITIES IN THE ARTS**

This course addresses the creative arts process and curriculum integration of art, drama, literature, music and movement for students preparing to work with young children. It is a participation rich, hands-on course giving all members of the class many varied experiences in the arts both as teachers and as students. Students will learn the value of the arts for growth and development of children as well as ways to integrate the arts into planned programs. Through class discussions, activities, readings and research, students will create specific arts activities that address the needs of a diverse population of children and provide rich multicultural experiences.

*Pre-requisites:* ECHD 103 or *Permission of Instructor*  
*3 credits (3 lecture hours), spring semester*

### **ECHD 206 – CURRICULUM METHODS, MATERIALS, AND MANAGEMENT**

This course focuses on curriculum development for preschool and primary school children (through second grade). Students will learn to plan developmentally appropriate learning experiences, design positive learning environments and incorporate play for young children's cognitive, emotional, social, linguistic and physical growth and development. Students will develop materials and activities that address all content areas of early childhood while integrating cultural awareness, diversity and inclusion. Linking the family and community with the early childhood program will be emphasized. A.A.S Degree students in Early Childhood will incorporate some of the activities and materials into the Practicum-Field Experiences Course. This course is to be taken concurrently with ECHD 212 (Practicum-Field Experience II).

*Prerequisites or Co-requisites:* ECHD 204, ECHD 205, ECHD 212 or *Permission of Instructor*  
*3 credits (3 lecture hours), spring semester*

### **ECHD 212 - PRACTICUM IN EARLY CHILDHOOD- FIELD EXPERIENCE II**

This course provides each student with direct experience working in a high quality early childhood setting. The experience will connect students' educational theory with actual classroom experience. The student will work with an experienced early childhood professional as his/her cooperating teacher for a minimum of 90 hours during the semester. In addition, students will attend weekly hour seminars. This is the culmination of college work for students in the A.A.S. Degree Program for Early Childhood. Successful completion of this course and the personal portfolio are requirements for this Degree.

*Prerequisites or Co-requisites:* ECHD 206; *Restricted to students enrolled in the final semester of the program; 2.0 GPA, satisfactory criminal background check, and current CPR certification required.*

*4 credits (1 lecture/3 lab); spring semester*

## **EDUCATION**

### **EDU 101- INTRODUCTION TO TEACHING**

This course introduces students to the requirements for becoming a certified teacher, including academic coursework, degrees, certification areas and requirements, NYS Teacher Certification Exams, fieldwork requirements and current issues in education. Emphasis is on reflective thinking needed to make an informed career choice. Written and oral reports and ten hours of guided

fieldwork are required. This course is designed primarily for Liberal Arts and Sciences/Teacher Education Transfer majors.

*Prerequisite:* *Admission to the Teacher Education Transfer Program or by permission of instructor.*

*1 Credit (One lecture hour), fall or spring semester*

### **EDU 201 - FOUNDATIONS OF EDUCATION**

This course provides an introduction to teaching as a career by exploring sociological, philosophical and historical aspects of education and the profession of teaching. Emphasis will be placed on the topics of the school environment, student diversity, teacher effectiveness, curriculum, and contemporary issues in education. Written and oral presentations, critical thinking, reflective reading, research and discussion are integral parts of this course.

*Prerequisites:* *Cumulative GPA of 2.7 or better and admission to the Teacher Education Transfer Program or permission of instructor.*

*Co-requisite:* EDU 202

*3 credits (3 lecture hours), fall or spring semester*

### **EDU 202 - GUIDED FIELD WORK IN EDUCATION**

In this course, students learn introductory guided field work in an elementary or secondary school. This course provides a clinical experience to help students see the connection between educational theory and the actual classroom experience. It also helps students decide if teaching is an appropriate career choice. Field work experience includes observing, interviewing, assisting, and interacting with students, teachers, administrators, and staff. Thirty hours of field work and a reflective journal are required.

*Prerequisites:* *Cumulative GPA of 2.7 or better.*

*Co-requisite:* EDU 201

*1 credit (30 field work hours) fall or spring semester*

## **ECONOMICS**

### **ECON 100 - INTRODUCTION TO MACROECONOMICS**

Basic macroeconomics related to the development of the American economics system. Factors which determine prices in a market economy, the use of budgets, efficiency in business and government, the role of money and monetary institutions and monetary policy in our economy, the measurement of economic activity, the principles of taxation, business cycles, and the determination of income and employment, economic security and economic stability, and economic growth and ecology.

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### **ECON 140 - INTRODUCTION TO MICROECONOMICS**

Basic micro-economics related to the development of today's American economic system. Principles of production, operation of the price system, the competitive market model, oligopoly, monopoly and the role of government, allocation of economic resources, income distribution, role of the U.S. in the international economy.

*3 credits (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### **ECON 300 – MONEY, BANKING AND FINANCIAL MARKETS**

This course is a study of essentials of the domestic monetary system, banking structure, and financial markets. It focuses on monetary practices, theory, and policy. Included in the course are an analysis of the nature, functions, and theory of money; an overview of the commercial banking system and the structure of the Federal Reserve System; and an examination of monetary policy as related to fiscal policy, economic activity, and international financial activities.

*Prerequisite:* ECON 100 or *permission from the instructor.*

*3 credits (3 lecture hours)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### **ECON 370 - INTERNATIONAL ECONOMICS**

This interdisciplinary global course interrelates various elements of economics,

government and history into the traditional economic analysis. Topics will be related to individuals, families and organizations. Current debates, problems and issues are examined along with an analysis of production, money, finance and trade.

*Prerequisite:* ECON 100, Junior-level status (or permission of instructor)

3 credits (3 lecture hours)

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

## ELECTRICAL ENGINEERING TECHNOLOGY

### ELEC 190 - ELECTRICAL THEORY IB

An introductory electric circuits course for non-electrical majors. Course material covers basic DC and AC circuits utilizing resistors, inductors, capacitors, relays, and transformers. Students are taught to work competently with sinusoidal voltage expressions, sinusoidal phase displacement, complex numbers, complex impedance and circuit power factors.

Pre or Co-requisite MATH 102, or permission of the instructor.

4 credits (3 lecture hours, 2 lab hours), fall semester

### ELEC 290 - DIGITAL CIRCUITS AND MICROPROCESSORS

An introduction to the digital circuits and microprocessors for non-electrical majors. Topics include basic electrical circuits using LEDs and switching transistors, use of the oscilloscope, number systems, logic gates, registers, memory devices, data transmission and programming applications.

3 credits (2 lecture hours, 1 recitation hour, 2 laboratory hours), spring semester

### ELEC 291 – ELECTROMECHANICAL ENERGY DEVICES

The analysis of AC and DC power system components including rotary generators, motors, transformers and transmission lines. Single and poly-phase systems will be considered. The student will learn the theory of operation and methods of analyzing various electrical machines using algebra based phasor analysis.

*Prerequisites:* ELEC 190; Math 102

3 credits (3 lecture hours), spring semester

## ENGINEERING SCIENCE

### ENGR 100 – INTRODUCTION TO ENGINEERING

An introduction to the engineering profession followed by a survey of PC-based computer tools applicable to new Engineering Science students. These tools range from standard word processing through graphics and CAD to analysis tools such as spreadsheets and computer math packages. These tools are applied in project context providing an introduction to the engineering design process from initial identification of need through specification and communication of final design.

*Pre- or Co-requisite:* MATH 103 or equivalent

3 credits (2 lecture hours, 2 laboratory hours), fall semester

### ENGR 135 – COMPUTING AND NUMERICAL TECHNIQUES

Introduction to a modern, math oriented programming language and to the computer-assisted solution of engineering problems. Introduction to more advanced programming topics including the handling and manipulation of complex numbers, the solution of large systems of equations and unknowns, and numerical searches and root finding. Structured programming methodology will be emphasized. This problem-oriented course will use a current programming language as recommended by the Engineering Science program coordinator.

*Prerequisite:* MATH 151 or permission of instructor

*Pre- or Co-requisite:* MATH 152

3 credits (3 lecture hours), spring semester

### ENGR 201 -STATICS

Students will gain knowledge of composition and resolution of forces and couples, equivalent systems, equilibrium of simple structures, trusses and

frames, friction, properties of areas. Free body diagrams and vector algebra will be used.

*Prerequisite:* PHYS 154

3 credits (3 lecture hours), fall semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### ENGR 202 - DYNAMICS

Kinematics of motion, Cartesian, path and polar coordinates, rigid body motion and relative motion analysis. Kinetics of particle and rigid body motion using force-acceleration, work-energy, and impulse-momentum approaches. Vector calculus used throughout.

*Prerequisite:* ENGR 201, MATH 261

3 credits (3 lecture hours), spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### ENGR 210 - ELECTRICAL SYSTEMS

Analysis of linear one-dimensional electric circuits including DC, AC and transient solutions. Basic network principles and theorems, loop and node solutions, transfer functions, frequency response, analogs, zero-pole concepts and coupled circuits. Computer analysis.

*Pre- or Co-requisite:* MATH 262

3 credits (3 lecture hours), spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

### ENGR 212 – MECHANICS OF MATERIALS

Examination of stress-strain relationships, physical properties of engineering materials. Analysis of mechanics of deformation, stress and strain for axial, torsion, and transverse loadings, combined stress, buckling of columns.

*Pre- or Co-requisites:* ENGR 202 and MATH 262

3 Credits (3 lecture hours), spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

## ENGINEERING TECHNOLOGY

### ENGT 100 - INDUSTRIAL INTERNSHIP

A supervised internship program for students majoring in Architectural Studies and Design, Engineering Technology and related programs. Course enrollment and preparation for the internship will commence in the student's first year. Student will work a minimum of 10 weeks or 400 hours, full-time or part-time equivalent, in the field. A written and oral report of the internship project will be presented to the engineering technology faculty and participating company representatives by the middle of March or October following the semester of enrollment.

3 credits (10 weeks in industry), fall or spring semester

## ENGLISH: LITERATURE, THEATER & COMMUNICATION

### ENGLISH: LITERATURE, THEATER AND COMMUNICATION

SKLS 087- Reading Essentials

See SKLS courses

SKLS 088- Writing Essentials

See SKLS courses

English 100- Introduction to College Writing

See COMP 100

English 101- Composition and Research

See COMP 101

English 102- Writing About Literature

See COMP 102

English 112- Technical Communications

See COMP 110  
 English 121- Introduction to Speech  
 See COMM 111  
 English 122- Small Group Discussion  
 See COMM131  
 English 123- Theories of Interpersonal Communication  
 See COMM121  
 English 124- Introduction to Theater  
 See THEA 124  
 English 125- Play Production  
 See THEA 125  
 English 130- Critical Reading  
 See COMM 101  
 English 203- American Literature to 1900  
 See LITR 203  
 English 204- American Literature 1900 to Present  
 See LITR 204  
 English 205- English Literature to 1800  
 See LITR 205  
 English 206- English Literature 1800 to Present  
 See LITR 206  
 English 207-Western World Literature  
 See LITR 207  
 English 208- Eastern World Literature  
 See LITR 208  
 English 211- Black American Writers  
 See LITR 211  
 English 212- Editing 1  
 See COMP 240  
 English 213- Editing 2  
 See COMP 241  
 English 214- Editing 3  
 See COMP 242  
 English 220- Writing in the Disciplines  
 See COMP 220  
 English 221- Literature of Gender  
 See LITR 221  
 English 222- Rural Studies  
 See HUMN 230  
 English 230- Science Fiction  
 See LITR 342  
 English 231- Advanced Composition and Research  
 See COMP 221  
 English 234- Creative Writing: Short Story  
 See COMP 230  
 English 235- Creative Writing: Poetry  
 See COMP 231  
 English 238- Modern Literature  
 See LITR 231  
 English 240- The Film Experience  
 See HUMN 210  
 English 246- Major American Novels  
 See LITR 232  
 English 249- Literature and the Environment  
 See LITR 233  
 English 250- Aspects of Contemporary Literature  
 See LITR 234  
 English 275- Creative Writing  
 See COMP 232  
 English 312- Advanced Technical Communications  
 See COMP 310  
 English 342- Science Fiction  
 See LITR 342

## ENTREPRENEURSHIP & SMALL BUSINESS MANAGEMENT

### ENTR 317 – THE ENTREPRENEURIAL PROCESS

The course will focus on the issues involved in the theory, process, and practice of Entrepreneurship. It is offered as the beginning course for the BBA in Entrepreneurship/Small Business Management. Subject areas covered include (but are not limited to) the current entrepreneurial environment, the individual as an entrepreneur, entrepreneurial planning, and creating and managing the venture.

*Prerequisite: Admission into the BBA Entrepreneurship and Small Business Management program*

*3 credits (3 lecture hours)*

### ENTR 320 – ACCOUNTING FOR ENTREPRENEURS

This course examines the basics of accounting and accounting relationships. The course will cover the accounting cycle, Quick Books, financial analysis, cash flow, cost analysis, and budgeting. The student will obtain the fundamentals of accounting skills needed for entrepreneurs to use accounting in their business and be able to begin making financial decisions that are important to a newly created firm.

*Prerequisites: MATH 102 and Junior Standing*

*3 credits (3 lecture hours), fall semester*

### ENTR 327 – GUERILLA MARKETING TACTICS FOR SMALL BUSINESS

This course will provide the student with the marketing fundamentals necessary in the startup, development, and operation of a small business. Students will develop successful marketing strategies with limited or nonexistent budgets. Guerilla Marketing tactics, innovation, and the incorporation of social media are emphasized.

*Prerequisites: ENTR 317, or BSAD 320 and BSAD 325.*

*3 credits (3 lecture hours, 1 laboratory hour), fall semester*

### ENTR 335– ENTREPRENEURIAL FINANCE

This course examines the basics of financial analysis, cash flow, credit and lending, the process of financing and financial growth of a new venture. The student will be introduced to obtaining and using various financial resources. The student will also learn how to create value using financing and financial structure as well as how to measure the value of a firm that might be used to purchase the operations. Topics include financial statements, forecasting, banking, venture capital, financial resources, business plan as related to financial information, and management of the financial resources of the firm.

*Prerequisites: Admission into the Entrepreneurship and Small Business Management BBA program, ENTR 317, BSAD 116, BSAD 221, ENTR 320, and ECON 100 or 140*

*3 credits (3 lecture hours)*

### ENTR 338 – LEGAL ISSUES FOR THE ENTREPRENEUR

This course focuses on several areas of the law that may affect Entrepreneurial success. The course will start with a discussion of contracts basics. From there we will cover the legal issues concerning; funding and finance, location issues (zoning, leasing, purchasing), types of business organizations (proprietorships, partnerships, limited liability companies, corporations), franchising, buying a business, product liability, insurance, intellectual property (patents, copyrights, trademarks), taxes, harvesting, and how, when and where to get legal help.

*Prerequisites: ENTR 317, BSAD 116, BSAD 221, ENTR 320, and ECON 100 or 140*

*3 credits (3 lecture hours), spring semester*

### ENTR 342 – INNOVATION AND NEW VENTURE CREATION

This course examines product and venture creation for the entrepreneur. The student will also learn about innovation that would lead toward the creation of ideas for future ventures or businesses. The student will learn how to identify new opportunities and screen those opportunities for success versus failure. The student will also learn how to build a model for a future business and handle rapid growth of a business. The course will also look at the feasibility of the ideas generated by the student in order for the student to identify possible future



businesses.

*Prerequisites:* ENTR 317 or BSAD 320, BSAD 116, BSAD 221, ENTR 320 or ACCT 102, and ECON 100 or 140 3 credits, spring semester

3 credits, spring semester

### **ENTR 352 – ENTREPRENEURIAL VALUE CHAIN MANAGEMENT**

This course examines the management and optimization of various operations of a business. The student will learn how to handle vendors and purchasing, managing quality and project as well as logistics and inventory. The student will understand the various aspects of the supply chain in order to reduce the obstacles and maximize the efficiency and effectiveness of the operations of a new venture. The student will learn how to identify and assess risk concerning the business and learn how to manage the resources of the business so that the business is efficient and effective.

*Prerequisites:* ENTR 317, BSAD 116, BSAD 221, ENTR 320, and ECON 100 or 140

3 credits (3 lecture hours)

### **ENTR 417 – CREATING THE BUSINESS VENTURE**

This course will require the student to use all of the entrepreneurial tools and business skills acquired in the Entrepreneurship and Small Business Management program by preparing two complete business plans. To that end, the course will cover the sections of a business plan in detail including: Executive Summary, Mission Statement/Business Description, Business Environment, Marketing Plan, Operations Plan, Management Team, Financial Section (forecasts), Legal/Insurance Section, Critical Risks, Assumptions/Conclusions, and Harvest Strategy. Each Student will be required to research and complete two full and detailed business plans for their chosen ventures. Students will also be required to give a 15-minute presentation of one of their business plans.

*Prerequisites:* ENTR 335, 342, 352, and 338

3 credits (3 lecture hours), fall semester

### **ENTR 474 – PREPARATION FOR FIELD STUDY**

This course is designed to prepare the student for the capstone course in the Entrepreneurship and Small Business Management degree program, ENTR 475. The student, with the guidance of a faculty member, will explore their options for applying their prior coursework, both as an entrepreneur and an intrapreneur. They will develop several field experience plans to complete during the field study, their outcomes for the experience, and what skills and knowledge they anticipate deriving from the field study. The course culminates in a presentation and committee approval of the student's field study plan.

*Prerequisite:* Junior standing in the Entrepreneurship and Small Business Management degree program or permission of instructor.

*Co-requisite:* ENTR 417

1 credit, fall semester

### **ENTR 475 – PRACTICUM IN ENTREPRENEURSHIP/BUSINESS CONSULTING**

This course serves as the capstone experience in the Bachelor of Business Administration (BBA) in Entrepreneurship and Small Business Management degree program. This course requires students to undergo a practicum in business consulting or in creating their own business. The practicum will require student interns to work directly with successful entrepreneurs in high-growth, innovative companies or to engage in faculty-mentor supervised activities associated with starting their own business. ONLY students of senior status in good standing enrolled in the BBA in Entrepreneurship and Small Business Management degree program are eligible for the practicum. The students must complete at least 480 hours of activities for at least 12 weeks with their host company. Students choosing to create their own businesses must devote a commensurate number of hours toward creation, start-up, and/or management of their own company.

*Prerequisite:* ENTR 417 (grade of C or better) and ENTR 474 or permission of instructor.

15 credits (15 laboratory hours) spring semester

### **ENSC 100 - INTRODUCTION TO ENVIRONMENTAL SCIENCE**

A dual-credit course with designated high schools to acquaint selected high school students with the basic principles of environmental science-topics such as soils, water, air, energy, wildlife, IPM, population ecology, forestry and waste management will be covered. Students will design and carry out a long-term project which will be based on a current environmental issue.

3 credits (minimum of 45 lecture class hours), spring semester

### **ENSC 101 - AGRICULTURAL SCIENCE**

Basic introduction to general agricultural and life science principles as an aid to the understanding of plant, animal and soil functions, as well as fundamental computations as applied to agricultural production. This course is intended for non-ENSC majors.

3 credits (3 lecture hours), fall semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **ENSC 102 - BOTANY: FORM AND FUNCTION OF SEED PLANTS**

Structure and function of higher vascular plants, with emphasis on cell structure, photosynthesis and respiration, anatomy, physiology, reproduction and Mendelian genetics.

3 credits (2 lecture hours, 2 laboratory hours), fall or spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **ENSC 103 –BOTANY, PLANT DIVERSITY**

An evolutionary survey of the plant kingdom with emphasis on structure, plant life cycles, ecological significance, and importance of non-vascular and lower vascular plants.

*Prerequisite:* BIOL/ENSC 102 or permission of instructor

3 credits; 2 lecture hours and 2 laboratory hours per week), spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **ENSC 106 - PESTICIDE USE AND HANDLING**

Basic principles of pesticide use, handling and application, including laws, safety, the environment, storage and disposal. Students will be given the opportunity to be tested by the Department of Environmental Conservation to receive certification at the end of the course.

2 credits (1 lecture hour, 2 laboratory hours), spring semester

### **ENSC 107 - INTEGRATED PEST MANAGEMENT**

Principles of pest control emphasizing biological, cultural, and regulatory control methods in a sound ecological and economic manner. Introduction to integrated pest management tactics of monitoring, forecasting, determining thresholds and control options. The course will also survey pest management programs used in various agricultural environments.

1 credit (1 lecture hour), fall semester

## **ENVIRONMENTAL TECHNOLOGY**

### **ENVT 100 - INTRODUCTION TO ENVIRONMENTAL TECHNOLOGY**

A study of the basic concepts of water pollution control, air pollution control, and solid waste management. Review of regulations relating to Environmental Protection and waste minimization/pollution prevention activities are covered.

3 credits (2 lecture hours, 2 laboratory hours), fall semester

### **ENVT 201 - FIELD OVERSIGHT**

Students will be introduced to job responsibilities of field personnel, including construction, investigating and remediation. The course provides fundamentals required for field oversight personnel to enhance their observation and reporting skills in such areas as Brownfields and construction sites. Topics include field observation and notes, inspection reports, field sampling, health and safety issues, construction equipment and plan and specification review.

3 credits (short course, 45 contact hours), scheduled periodically through Morrisville State College and the SUNY Center for Brownfield Studies

## **ENVIRONMENTAL SCIENCE**

**ENVT250- INTERNSHIP IN ENVIRONMENTAL TECHNOLOGY**

Student will work at an approved job in the environmental technology industry. A comprehensive written report and employer evaluation are required at the end of the work period.

*Prerequisite: Permission of instructor*

*Up to 4 credits, fall or spring semester*

**ENVT 345 - SURFACE AND GROUNDWATER MANAGEMENT**

An examination of the methods and strategies available for the delineation, assessment and characterization of confined and unconfined groundwater aquifers, as well as their recharge areas. Introduction to groundwater extraction and well functions. Surface water management issues, including watershed delineation and protection. Issues in surface and groundwater contamination and remediation. Approaches to water rights and allocation. Brownfields. Federal, state and local regulatory issues.

*Prerequisite: upper division standing or permission of instructor*

*3 credits (3 lecture hours), spring semester*

## EQUINE SCIENCE & MANAGEMENT

**ERID 102 - INTERMEDIATE EQUITATION - WESTERN**

This course is an introduction to intermediate skills in western equitation. It provides a reinforcement of western equitation for the rider with basic skills, a review of AQHA guidelines, and a continuation of the basics of grooming, tack, bits, and safety as well as proper position and skills while riding.

*Prerequisite: Admission into the Equine Science and Management Degree Program, Requires permission of in-structor or prior placement into course.*

*2 credits (1 lecture hour, 1 - 2 hour laboratory of riding-western seat), fall semester*

**ERID 103 – INTERMEDIATE WESTERN EQUITATION II**

A continuation of ERID 102, Intermediate Western Equitation II, emphasizing development and advancement of skills necessary to communicate effectively to the horse to prepare the student for riding intermediate maneuvers

*Prerequisite: ESCI 150 with a C or better, and ERID 102 with a grade of B or better or ERID 104 with a C or better, and permission of the instructor*

*1 credit (2 laboratory hours), spring semester*

**ERID 104 - ADVANCED EQUITATION - WESTERN**

This course is an introduction to advanced skills in western equitation. It provides a reinforcement of western equitation for the rider with intermediate skills and includes a review of AQHA guidelines, and a continuation of grooming tack, bits, and safety as well as proper position and skills while riding.

*Prerequisite: Admission into the Equine Science and Management Degree Program, Requires permission of in-structor or prior placement into course.*

*2 credits (1lecture hours, 1 - 2 hour laboratory of riding- western seat), fall semester*

**ERID 105 -ADVANCED WESTERN EQUITATION II**

A continuation of ERID 104, Advanced Western Equitation II, emphasizing development and advancement of skills necessary to communicate effectively to the horse to prepare the student for riding advanced maneuvers

*Prerequisite: ESCI 150 with a C or better, and ERID 102 with a grade of A or*

*ERID 104 with a B or better, and permission of the instructor*

*1 credit (2 laboratory hours), spring semester*

**ERID 109 – INTERMEDIATE EQUITATION – HUNT SEAT**

This course is an introduction to intermediate skills in hunt seat equitation. The student will continue to develop and advance the basic riding skills of the hunt seat involving the horse and rider working as a team. Particular attention is given to the development of a light set of hands and a balanced seat for the rider through a series of maneuvers and exercises. The student will continue to advance their flat work skills to prepare to jump small courses.

*Prerequisite: Admission into the Equine Science and Management Degree Program, Requires permission of in-structor or prior placement into course.*

*2 credits (1lecture hours, 1 - 2 hour laboratory of riding- Hunt seat), fall semester*

**ERID 110 – ADVANCED EQUITATION – HUNT SEAT**

This course is an introduction to advanced skills in hunt seat equitation. It provides a reinforcement of basic in-termediate hunt seat equitation for the rider with intermediate skills and includes a review of the student's ability to walk, trot and canter the horse with light hands and a balanced seat. The student will continue to develop an im-proved and independent seat, feel for the horse, and will develop and advance the skills necessary to jump a course of fences.

*Prerequisite: Admission into the Equine Science and Management Degree Program, Requires permission of in-structor or prior placement into course.*

*2 credits (1lecture hours, 1 - 2 hour laboratory of riding- Hunt seat), fall semester*

**ERID 111 - INTERMEDIATE HUNT SEAT EQUITATION II**

This course, a continuation of ERID 102, emphasizes development and advancement of skills necessary to safely jump a two-foot course of fences.

*Prerequisites: ESCI 150 with a C or better; and ERID 102 with a B or better or ERID 104 with a C or better; and permission of instructor*

*1 credit (2 laboratory hours), spring semester*

**ERID 112 - ADVANCED HUNT SEAT EQUITATION II**

In this course, which is a continuation of ERID 104, development and advancement of skills necessary to safely jump a three-foot course of fences is emphasized.

*Prerequisites: ESCI 150 with a C or better; and ERID 102 with an A or ERID 104 B or better*

*1 credit (2 laboratory hours), spring semester*

**ERID 200 - WESTERN RIDING**

Development and advancement of basic riding skills of western horsemanship involving the horse and rider working as a team with particular attention to the development of a light set of hands and a balanced seat for the rider.

*Prerequisites: ERID 103 with a B or ERID 105 with a C, ESCI 150 and ESCI 151 with a C grade or better, and permission of instructor*

*1 credit (2 laboratory hours), fall semester*

**ERID 210 - ENGLISH DRESSAGE**

Development and practice of the horse and rider in the basic schooled riding techniques.

*Prerequisites ESCI 150 and ESCI 151 with a C or better and either ERID 111 with a B or better or ERID 112 with a C or better and by permission of instructor*

*2 credits (1 lecture hour, 30 contact hours of riding), spring semester*

**ERID 220 - WESTERN DRESSAGE**

Advanced training of the western horse and rider. This course is designed to develop and refine the student's skills and techniques in riding western horses. Emphasis on the rider's ability to develop correct movement at all gaits. Training theories and horse psychology will be explored as it relates to the enhancement of effective riding and getting the desired response from the horse.

*Prerequisites: ERID 200 with a B grade or better, and by permission of instructor*

*2 credits (1 lecture hour, 30 contact hours of riding), spring semester*

**ERID 240 – INTRODUCTION TO THE TRAINING OF HUNTERS AND JUMPERS**

The introduction of Hunt Seat Riding techniques to establish the foundation for the student to continue with more intensive training in advanced courses. The students will gain a broad working knowledge of the psychology of horses and different theories on the breaking and training of horses. Theory and intensive work on the riders form and function; introduction and advancement of lateral and longitudinal bending techniques; introduction to training horses over cavaletti, lines, and courses. Management of the training horse's health care and maintenance tech-niques and barn management and equipment knowledge and care will be introduced.

*Prerequisites: ESCI 150, ESCI 151, ERID 111 with a B grade or better or ERID 112 with a B grade or better and permission of instructor.*

*4 credits (1 lecture hour and 12 laboratory hours), fall semester*

**ERID 250 - BREAKING AND TRAINING**

The training of young, unbroken horses. Emphasis on the techniques to break and train these horses to ride or drive. Students are also responsible for the complete care of both the horses and the training facility.

*Prerequisites:* ERID 103 with a B or better or ERID 105 with a B or better and permission of instructor; ESCI 150 and ESCI 151 with a C or better  
 3 credits (1 lecture hour/week, total of 60 laboratory hours), fall semester

### **ERID 255 - INTERMEDIATE BREAKING AND TRAINING**

The training of young horses utilizing techniques learned in ERID 250 as well as advanced techniques. Management of young horses, record keeping, health care and stable management are emphasized.

*Prerequisite:* ERID 250 with minimum grade of 'B' or better and permission of instructor  
 4 credits (12 laboratory hours/week for 15 weeks), spring semester

### **ERID 260 - INTERMEDIATE TRAINING OF HUNTERS AND JUMPERS**

An exploration of Hunt Seat riding techniques to train the young, spoiled or difficult horse on the flat and over fences. Functions and applications of cavaletti and gymnastics; the systematic progression in training from cavaletti and through jumping lines, more difficult obstacles, full courses and cross country work. Procedures for marketing the jumping horse and showing it in competitive situations. Management of the training horse's health care and maintenance techniques and barn management and equipment knowledge and care will be continued.

*Prerequisite:* ERID 240 with a B or better or ERID 250 with a B or better and permission of instructor  
 4 credits (12 laboratory hours), spring semester

### **ERID 300 - ADVANCED EQUINE SPECIALIZATION I**

This is the first of three intense courses in a specific concentration (hunt seat, western, or draft/driving). Advanced principles and practices of breaking, training and management will be emphasized. Students will help manage the horses and facilities in the particular area of concentration.

*Prerequisites:* ERID 255 or 260 or 170 with a minimum grade of B and ESCI 130 with a B or better and permission of instructor  
 4 credits (1 lecture hour and 9 laboratory hours), fall or spring semester

### **ERID 330 - EQUINE INSTRUCTION METHODOLOGY**

A study of effective teaching techniques relating to equine riding and driving courses with consideration of the physical and psychological factors involved. Appropriate class preparation, teaching methods and student evaluation will be covered. Opportunities for observation, assisting and teaching experience.

*Prerequisite:* Equine major with at least 60 credit hours  
 1 credit (1 lecture hour; 2 laboratory hours), fall semester

### **ERID 350 - ADVANCED EQUINE SPECIALIZATION II**

This is the second of three intense courses in a specific concentration (Hunt seat, western, draft/driving or breeding) the horse will be brought to its best possible level of management/performance. An analysis of the horses' physical and mental capabilities will be used to develop them to their fullest. Horses may be prepared for competition and exhibitions. The management of groups of competitive show horses will be taught. In some options, students will participate in the supervision of underclassmen.

*Prerequisite:* ERID 300 with a B or better or ESCI 320 and 340 with a B or better and permission of instructor  
 4 credits (1 lecture hour and 9 laboratory hours), fall or spring semester

### **ERID 400 - ADVANCED EQUINE SPECIALIZATION III**

This is the third course in a three-course sequence designed to enhance the students' skills in hunt seat, western, or draft horse training and management. Designed to utilize the skills taught in ERID 300 and 350. This course focuses more on the student's own managerial abilities. Students may assist in teaching students at the freshman and sophomore levels.

*Prerequisite:* ERID 350 with a B or better and permission of instructor  
 4 credits (1 lecture hour; 9 laboratory hours), fall or spring semester

### **ESCI 110 - EQUINE ANATOMY AND PHYSIOLOGY**

The study of the anatomy and physiology of horses' body systems: skeletal, muscular, respiratory, cardiovascular, neurological, endocrinological, digestive, and reproductive systems.

3 credits (3 lecture hours), spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General*

*Education Requirement for Natural Science.*

### **ESCI 130 - EQUINE AND STABLE MANAGEMENT**

Lecture subjects include general knowledge and observation of horse health, e.g., condition, dentistry, internal and external parasites, limb and hoof care, and shoeing and trimming, as well as stable management and employee success. Laboratory skills include, leg wraps, basic restraints, equipment applications, hoof trimming and shoeing, and fitting and showmanship.

3 credits (2 lecture hours, 2 laboratory hours), fall semester

### **ESCI 140 - EQUINE JUDGING**

Evaluating and placing conformation and performance classes of various breeds of horses with an emphasis on the stock breeds. Proper use of terminology as it applies to conformation and performance classes will be taught. Video and live classes will be used as a tool for properly evaluating horses and their performance.

2 credits (1 lecture hour, one 2-hour laboratory), spring semester

### **ESCI 150 - FARM PRACTICUM I-EQUINE**

Hands-on practical experience in stable, farm management. Mucking, grooming, feeding, general maintenance of arena, paddocks, stable, and stable.

2 credits (3 hours per day, 7 days per week for 2 2-week sections), fall semester

### **ESCI 151 - FARM PRACTICUM II-EQUINE**

Hands-on practical experience in stable and farm management as well as supervising work details and management of horses.

2 credits (3 hours per day, 7 days per week for 2 2-week sections), spring semester

### **ESCI 170 - DRAFT AND DRIVING HORSE MANAGEMENT**

Lecture topics emphasize a survey of today's industry, breeds, history, and conformation, principles of harnessing and hitching, and management of draft horses. Also included are showing procedures, breeding, foaling and training. Laboratory consists of hands-on experience in the handling, harnessing, hitching, driving, care and management of draft and driving horses.

2 credits (1 lecture hour, 3 laboratory hours), spring semester

### **ESCI 210 - EQUINE NUTRITION**

Functions and properties of nutrients, the digestive system of the horse as compared to simple stomached animals and ruminants, the effects of proper nutrition on horses of different ages and levels of exercise. Labs on the composition and nutritive value of feeds, the use of feeding standards in balancing rations and forage and concentrate identification. Yearly feed costs under set conditions.

3 credits (2 lecture hours, one 2-hour laboratory), fall semester

*Prerequisite:* ESCI 110 with a C- or better or permission of instructor

1 credit (2 laboratory hours), spring semester

### **ESCI 225 - EQUINE ARTIFICIAL INSEMINATION**

The artificial insemination of horses. Topics and competencies include A-V types and preparation, stallion collection, semen evaluation, teasing and mare preparation, and insemination techniques.

*Co-requisite/Prerequisite:* ESCI 305

1 credit (2 laboratory hours), spring semester

### **ESCI 235 - FITTING AND MARKETING OF THE EQUINE**

The fitting and marketing of various breeds of horses. Topics include records, pedigree evaluation. Actual experience in the sales preparation of horses and mechanics of sales operation through direct participation in annual fall college standardbred auction.

1 credit (3 laboratory hours), fall semester

### **ESCI 300 - INTERNSHIP IN EQUINE SCIENCE**

Students work in an approved job in the equine industry in this internship. Comprehensive oral and written reports are required as well as an employer and staff evaluation. The student will give an oral presentation.

*Prerequisite:* Completion of one semester in Equine Science and approval/permission of staff

4 credits (12-week, 480-hour minimum), fall or spring semester

### ESCI 305 – EQUINE REPRODUCTION AND BREEDING MANAGEMENT

Anatomy and Physiology related to the functional performance of the male and female reproductive systems. Processes involved with the formation of the sperm and ova; estrous cycle of the horse; methods of semen collection and insemination. Breeding problems and the importance of selection and management are also emphasized. Basic Genetics applicable to the improvement of horses, color genetics and inherited abnormalities are covered.

*Prerequisite:* ESCI 110 with a C- or better; ESCI 130 or approval from instructor.

3 credits (2 lecture hours, 2 Laboratory hours), spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### ESCI 310 - APPLIED EQUINE NUTRITION

Review of basic nutrition principles. Application of theoretical principles of nutrition as applied to feeding groups of horses. Ration balancing for different classes of horses combined with feeding trials to assess ration efficiency. Emphasis on feeding for growth and performance within economic parameters. Avoidance of metabolic and nutritional disorders. Discussion of nutrient metabolism and biochemistry of nutrition. Labs on ration balancing, group feeding, performance analysis relating to rations.

*Prerequisites:* ESCI 210 with a C or better

3 credits (2 lecture hours, 2 laboratory hours), fall semester

### ESCI 312 - EQUINE HEALTH AND LAMENESS

Emphasis on etiology, diagnosis and treatment of lameness. Metabolic, bacterial, viral, fungal and parasitic diseases of the horse.

*Prerequisite:* ESCI 110 with a C- or better or permission of instructor

3 credits (3 lecture hours), spring semester

### ESCI 313 - LABORATORY IN EQUINE HEALTH AND LAMENESS

Application of the principles learned in Equine Health and Lameness to the health care of the college's horse herd. Subjects covered will include routine vaccination and deworming, blood testing, dental care and lameness evaluation.

*Prerequisite/co-requisite:* ESCI 312

1 credit (2 laboratory hours), spring semester

### ESCI 315 - EQUINE BUSINESS MANAGEMENT

Content will emphasize equine enterprise management. Topics to include equine inventories, measurement and cost determination of enterprise inputs, employer labor responsibilities, employee evaluation, contractual and billing procedures, insurance, facility evaluation and work reports.

*Prerequisite or co-requisite:* ERID-ESTB 300 or ESCI 320-340; AGBS 240 Farm Management and Finance

3 credits (3 lecture hours) fall semester

### ESCI 320 - EQUINE YOUNG STOCK MANAGEMENT

This course provides hands-on and management skills needed by working equine farm managers. It will include such skill areas as weaning foals, young stock management, identification, record keeping and sales preparation of yearlings. The course will also deal with pre-breeding season techniques such as, semen evaluation in stallions and photoperiod regulation in mares.

*Prerequisites:* ESCI 305 with a B or better, ESCI 225 with a B or better, and ERID 250 or ERID 240 with a B or better, or permission of the instructor.

1 credit (2 laboratory hours), fall semester

### ESCI 325 – EQUINE REHABILITATION I

This course will provide an introduction to modalities in the field of equine physical rehabilitation. Common equine soft tissue and orthopedic conditions and injuries will be discussed along with the role of physical rehabilitation in the treatment of these conditions. Equine anatomy, biomechanics, and physical assessment with respect to physical rehabilitation will be presented.

Therapeutic modalities will be studied in conjunctions with observation, hands-on interaction and practical sessions. Current scientific research in the field of equine rehabilitation will be discussed. Students will be involved in the day to day management of horses and maintenance of facilities. Students will be evaluated on effectiveness, knowledge of therapies, work ethic, and communication skills.

*Prerequisites:* ESCI 312 and ESCI 313 with a B or better and one of the following: ERID 240 (Hunt Seat), ERID 250 (Western, Draft or Breeding section), ESTB 200 (STBD) or

ESTB 210 (TB) with a B or better and permission of instructor.

4 credits (1 lecture hour, 9 laboratory hours), fall and spring semester

### ESCI 330 - FARRIER SCIENCE

This course is designed to teach students the science of trimming, shoeing and resetting shoes on a variety of horses, based on an understanding of the anatomy of the horse's hoof and lower leg structure. Students will learn to use a forge to make different shoes.

*Prerequisite:* ESCI 110, ESCI 130

2 credits (1 lecture hour, 3 laboratory hours), fall semester

### ESCI 335 – EQUINE AQUATIC THERAPIES

This course will provide an introduction to the aquatic modalities used in equine rehabilitation and athletic conditioning of horses. Students will gain practical experience working with the underwater treadmill, cold salt water spa, and swimming. Current scientific research on aquatic therapies as they relate to both rehabilitation and conditioning will be discussed.

*Prerequisites:* ERID 250 or ERID 240 or ESTB 210 or ESTB 200, ESCI 312 with a C or better or permission of instructor

2 credits (1 lecture hour, 6 laboratory hours), fall and spring semesters,

### ESCI 340 - EQUINE PROMOTION AND SALES

This course is designed to provide students with the opportunity to get the "hands on" skills needed to prepare a horse for private or public sale. Discussions on the economics of public sales, bookkeeping procedures, forms needed, advertising, legal responsibilities of sales companies, buyer and owner interaction and auction variations among different breeds.

*Prerequisites:* ESCI 305, ESCI 130, ESCI 235

3 credits (1 lecture hour, 4 laboratory hours), fall semester

### ESCI 345 – ADVANCED EQUINE ANATOMY FOR EQUINE REHABILITATION

This course will provide a focused examination of equine anatomy as it relates to rehabilitation. Musculoskeletal anatomy will be presented in detail as an understanding of the relevant anatomy is crucial for effective rehabilitation in horses. Skeletal structures will be presented within the context of equine biomechanics and muscles will be grouped by both function and region. Anatomical models and live horse will be utilized to provide context and hands-on study of the information presented.

*Prerequisites:* ESCI 312 with a C or better or permission of instructor

2 credits (4 laboratory hours), fall and spring semesters

### ESCI 365 – EQUINE REHABILITATION II

This course is a continuation of ESCI 325. Physical rehabilitation modalities will be discussed in greater detail. Additional study of equine anatomy and conditions addressed by physical rehabilitation will be presented. Students will have hands-on involvement in implementing physical rehabilitations programs for the horses and observing the horses' progress. Students will also develop client communication skills, provide assistance to underclassmen, and be involved in management of the facilities. Current research papers regarding physical rehabilitation will be discussed. Students will be required to give presentations on the use of physical rehabilitation modalities. Students will be evaluated on skills, effectiveness, leadership, work ethic, and communication skills. Presentations by students on the uses of therapies in equine rehabilitation/training may be required.

*Prerequisites:* ESCI 325 with a B or better and permission of instructor

*Co-requisite:* ESCI 410 Exercise Physiology

4 credits (1 lecture hour, 9 laboratory hours), fall and spring semester

### ESCI 370 – CONCEPTS FOR DISEASE IN EQUINE REHABILITATION

This course introduces the various diagnostic methods used to diagnose rehabilitation cases. Students will discuss lameness and neurologic evaluations as they relate to the common cases seen in equine rehabilitation. Imaging modalities and their differences will be presented to enable students to understand their role in diagnosis and evaluation throughout rehabilitation.

*Prerequisites:* ESCI 312 with a C or better or permission of instructor

1 credits (1 lecture hour), fall and spring semesters



**ESCI 380 - EQUINE REHABILITATION THERAPIES**

This course will provide and instruction to the various modalities used in equine rehabilitation. Students will gain practical experience working with the therapeutic laser, therapeutic ultrasound, MagnaWave, and GameReady. The scientific basis for using these treatments will be presented and students will gain an understanding of the physiologic effects of these treatments as well as indications and contraindications for their use.

*Prerequisites:* ESCI 345 with a B or better, ESCI 312 with a C or better or permission of instructor

3 credits (1 lecture hour, 6 laboratory hours), fall and spring semesters

**ESCI 390 - CURRENT RESEARCH IN REHABILITATION**

This discussion-based course focuses on current research papers related to the equine rehabilitation field. Research papers will be presents and discussed on laser therapy, acupuncture, underwater treadmill, cold therapy, therapeutic ultrasound, and various other rehabilitation modalities as well as major causes of lameness in horses.

*Prerequisites:* ESCI 335 with a C or better and permission of instructor, *Co-requisite:* ESCI 380

1 credits (1 lecture hour), fall and spring semesters

**ESCI 400 - ADVANCED EQUINE REPRODUCTION AND STUD MANAGEMENT**

This course is designed to provide an advanced level of management for breeding farm operations. It deals with the management of stallions, brood mares and foals and all related activities. A general knowledge of computers, record keeping, equine health, reproductive physiology and horse handling skills is needed prior to admittance.

*Prerequisites:* ESCI 340, ESCI 320, ESCI 310, ESCI 225,

4 credits (1 lecture hour, 9 laboratory hours), spring semester

**ESCI 405 - PROBLEMS AND DISEASES IN EQUINE REHABILITATION**

This course focuses on the major causes of lameness in horses and the process of diagnosing and treating them. Students will work through clinical cases in a discussion format to determine the cause of the lameness and develop treatment plans for each case.

*Prerequisites:* ESCI 370, ESCI 335, and ESCI 380 or permission of instructor

2 credits (2 lecture hours), fall and spring semester

**ESCI 410 - EQUINE EXERCISE PHYSIOLOGY**

This course will cover technology and methodology of conditioning horses used in sport. Emphasis will be placed on the state of fitness of the equine athlete and its effect on the bodily systems.

*Prerequisites/co-requisite:* ESTB 350, or ERID 350 or ESCI 325, and ESCI 312 and ESCI 110 all with a C or better

2 credits (2 lecture hours), spring semester

**ESCI 415 - EQUINE REHABILITATION III**

This course will apply knowledge and skills developed during ESCI 325 and ESCI 365. Students will be involved with implementing physical rehabilitation programs for horses, documenting the horses' progress as well as facility maintenance, equipment operation, budget development, ordering of supplies, billing, and client communication. Students will also assist students enrolled in ESCI 325/365. Current research papers regarding physical rehabilitation will be discussed. Students will be evaluated on skills, effectiveness, leadership, work ethic, and communication skills. Presentations by students on the uses of therapies in equine rehabilitation/training will be required.

*Prerequisites:* ESCI 365 with a B or better, and ESCI 410 with a C or better, and permission of instructor

4 credits (1 lecture hour, 9 laboratory hours), fall and spring semester

**ESCI 420 - EQUINE INTERNSHIP**

A supervised field work program in a selected equine field. Students will carry out a planned program of educational experiences, under the direct supervision of an owner, manager, supervisor, or educator. This Internship must be pre-approved by an internship coordinator. Students and employers must submit weekly reports and evaluations while on internship. The student will be required to submit a written report and give an oral presentation. A student

must complete 15 credit hours of academic study or the equivalent of supervised work (40 hours of supervised work is equal to one credit hour). A combination of academic study and work experience totaling 15 credit hours is acceptable. An international equine exchange program is acceptable and available in fulfilling this requirement. "Visiting student" status may be granted to students enrolled in other United States equine programs who wish to pursue an international exchange program.

*Prerequisite:* RREN 450 Internship Orientation

15 credits, (minimum 15 weeks minimum 40 hours/week)

**ESCI 430- CLINICAL APPLICATION OF EQUINE REHABILITATION**

This course allows students to implement all the information gained in their previous equine rehabilitation courses in a clinical setting. Students will perform daily treatments of horses in a clinical setting. Each student will be assigned care horses, which they will be responsible for assessing daily for changes related to treatment. Students will present assigned cases during rounds each week and will provide insight into progress seen and suggest changes in treatment plans. Students will become more involved in the management of the facility and learn to use veterinary records software to monitor cases, manage inventory, etc.

*Pre-requisites:* ESCI 370, ESCI 335 with a C or better and ESCI 380 with a C or better or permission of instructor

4 credits (1 lecture hour and 9 laboratory hours), fall and spring semester

**EQUINE RACING MANAGEMENT****ESTB 100 - CARE AND TRAINING OF THE RACEHORSE I**

Introductory course in horse racing, covering basic stable management, harnessing, tacking, jogging, feeding and conditioning of the race horse. Use and application of miscellaneous equipment. Breaking of the yearling and training of the 2-year old.

5 credits (10 laboratory hours combined with lecture/recitation), fall semester

**ESTB 101 - CARE AND TRAINING OF THE RACEHORSE II**

Continuation of ESTB 100 Principles of shoeing, training, problem horses, gaiting problems. Train and condition horses in preparation for racing.

*Prerequisite:* ESTB 100 or permission of instructor

5 credits (15 laboratory hours combined with lecture/recitation), spring semester

**ESTB 200 - HARNESS RACING**

A continuation of ESTB 100 and ESTB 101. This course provides the actual hands-on experience of racing at county fairs and amateur events. Students condition and race college owned or privately owned horses.

*Prerequisites:* At least a B average in ESTB 100, ESTB 101 and an USTA driver's F-Q license, permission of the instructor

5 credits (one lecture hour, five two-hour laboratories), summer semester

**ESTB 210 - ADVANCED EQUINE RACING**

A continuation of ESTB 101. This course focuses upon topics relative to racing horses at pari-mutuel racetracks in the United States. Students will have the opportunity to study rules of racing relative to starting, claiming, and placing of race horses. Students will also have the opportunity to study sales of weanlings, yearlings and 2-year-olds in training.

*Prerequisite:* ESTB 101 with a C or better

4 credits (1 lecture hour and 9 laboratory hours), fall semester

**ESTB 220 - EQUINE RACING CAPSTONE**

ESTB 220 is a capstone course designed to provide students in the equine racing management program with an opportunity to utilize and integrate concepts learned in the first three semesters of course work.

*Prerequisite:* ESTB 210 and permission of the instructor

4 credits (1 lecture hour and 9 laboratory hours), spring semester

**ESTB 300 - ADVANCED EQUINE SPECIALIZATION I**

Students will be assigned the enterprise of a two-horse stable. Management responsibilities include breaking of yearlings, shoeing, equipment and nutritional needs, owner correspondence and conditioning young standardbred or thoroughbred race horses. Students are evaluated on effectiveness

and leadership, management skills, decision making skills, knowledge of specialization, work ethic, creativity and communication skills. Papers and presentations are required in theory portion. The theme for lecture topics will concentrate on horse psychology and training methodologies in the early training of the race horses.

*Prerequisite:* ESTB 210 and 220, with a minimum grade of B and permission of instructor  
4 credits (1 lecture hour and 9 laboratory hours), fall semester

### **ESTB 350 - ADVANCED EQUINE SPECIALIZATION II**

Students will be assigned to manage a four to five-horse race stable. Management duties expanded from ESTB 300 to include inventory, horse evaluations, billing, ordering supplies, budget development, and equipment operation. Students will train problem horses, fast-training trips. Evaluation procedures continued from ESTB 300. Theme for lecture session will be conditioning procedures, evaluating race fitness, exercise physiology and physiological profiling of the race horse.

*Prerequisite:* ESTB 300 with a B or better and permission of instructor  
4 credits (1 lecture hour and 9 laboratory hours), fall semester

### **ESTB 400 - ADVANCED EQUINE SPECIALIZATION III**

Students assigned management of a 10 to 12 horse race stable. Responsibilities will include the complete man-agement, health, training, conditioning and racing of horses. Students will be evaluated on effectiveness of management and training responsibilities. The theme for the lecture portion will concentrate on effective man-agement techniques.

*Prerequisite:* ESTB 350 with a B or better and permission of instructor  
4 credits (1 lecture hour and 9 laboratory hours), spring semester

## **ENVIRONMENTAL TRAINING**

### **ETC 101 - BASIC OPERATIONS OF WASTEWATER TREATMENT PLANTS**

This course is designed to meet the requirements of New York state sanitary code part 650.4 relative to the training required to receive a New York state wastewater operator's license. The course includes fundamental concepts of wastewater treatment, laboratory procedures in process control, operational strategies for various methods of treatment, personnel management, development of in-plant safety and equipment maintenance programs, and public relations.

4 credits (short course, 60 contact hours) scheduled 4 times yearly, TB.A

### **ETC 102 - BASIC LABORATORY PROCEDURES FOR WASTEWATER TREATMENT FACILITIES**

This course is designed to meet the requirements of New York state sanitary code part 650.4 relative to the training required to receive a New York state wastewater operator's license. Topics covered include basic wastewater chemistry, an overview of the principles of chemistry and laboratory techniques and safety. The course is comprised primarily of laboratory exercises used to teach and provide practice with important laboratory tests and techniques.

*Prerequisite:* ETC 101

1 credit (short course, 24 contact hours) scheduled 4 times yearly, TB.A

### **ETC 200 - ACTIVATED SLUDGE WASTEWATER TREATMENT-PRINCIPLES OF OPERATION**

This course is designed to meet the requirements of New York state sanitary code part 650.4 relative to the training required to receive a New York state wastewater operator's license. The course includes an activated sludge process overview, modifications and variations, process control testing and calculations, nitrification, and process troubleshooting. Approximately half of the course is held at nearby treatment facilities.

*Prerequisite:* ETC 101

1 credit, (short course, 24 contact hours), scheduled 5 times yearly, TB.A

### **ETC 210 - BASIC SUPERVISION AT WASTEWATER TREATMENT FACILITIES**

This course is designed to meet the requirements of New York state sanitary code part 650.4 relative to the training required to receive a New York state wastewater operator's license. Topics covered include training skills, safety and

health programs, budgeting, supervisory management, and public relations. The course is comprised primarily of group exercises used to teach and allow practice with vital supervisory skills and techniques.

*Prerequisite:* ETC 101

3 credits (short course, 30 contact hours) scheduled 2 times yearly, TB.A

### **ETC 300 - ADVANCED OPERATION OF WASTEWATER TREATMENT FACILITIES**

This course is designed to meet the requirements of New York state sanitary code part 650.4 relative to the training required to receive a New York state wastewater operator's license. Topics covered include residuals handling and beneficial reuse, effluent toxicity, comprehensive plant evaluation and troubleshooting, treatment plant design and construction, tertiary treatment and other advanced operations topics.

*Prerequisites:* ETC 101, ETC 102, ETC 200 and ETC 210

2 credits (short course, 30 contact hours), scheduled 2 times yearly, TB.A

## **FOOD SERVICE ADMINISTRATION**

### **FSAD 100 - GLOBAL AND ETHNIC FOODS**

Presents food and cultural topics to Food majors and Travel and Tourism students. Lecture and laboratory sections will allow students to investigate sources of information and achieve hands-on experience with ethnic foods. Students will gain an appreciation of the importance of various foods in the tourism industry. \$45.00 lab fee.

3 credits (1 lecture hour/week, 4 lab hours/week), fall semester

### **FSAD 101 - QUANTITY FOOD PREPARATION AND SERVICE**

An introduction to basic procedures and techniques for quantity food preparation as well as institutional food service equipment (use and maintenance). Also includes sanitation and math competency.

3 credits (1 lecture hour, 3 laboratory hours, 15 hours volume food service), fall semester

### **FSAD 102 - CERTIFICATION OF APPLIED FOOD SERVICE**

A comprehensive course in food service sanitation designed to lead to national certification as a food service handler by the Education Foundation of the National Restaurant Association.

1 credit (15 lecture hours per semester), fall semester

### **FSAD 153 - FUNDAMENTALS OF HOSPITALITY MANAGEMENT**

Basic management theories and principles common to all types of hospitality operations. Organization and man-agement, the management process, leadership, objectives, policies and ethics, communications and discipline. Case studies and critical review of current management literature.

3 credits (3 lecture hours), spring semester

### **FSAD 154 - EQUIPMENT SELECTION AND LAYOUT**

Analysis of factors for selection of equipment according to type of food service, comparative evaluation of equipment, purchase specifications. Each student develops a prospectus for a given food service operation and makes a schematic layout.

3 credits, spring semester

### **FSAD 200 - INTERNSHIP IN CUSTOMER SERVICE**

Customer service laboratory experience in conjunction with state or national hospitality operations. A field based experience providing food service administration, Culinary arts, restaurant management, and travel/tourism majors with an opportunity to apply their knowledge in a customer service environment. Student experience supervised by faculty.

3 credits, (1 lecture hour, 6 lab hours) spring semester

### **FSAD 201 - SUMMER COOPERATIVE EMPLOYMENT**

Summer work in an approved job in the food service industry, preferably in the area of specialization. Comprehensive written report required at the end of the work period. Work is evaluated by the college and employers.

2 credits, fall semester

**FSAD 203 - MANAGEMENT II (PERSONNEL RELATIONS)**

Procurement and placement, improvement of performance, supervision, remuneration, security, personnel management and the future. Case studies and conference leadership sessions required.

*3 credits (3 lecture hours), fall semester*

**FSAD 205 - FOOD AND BEVERAGE MERCHANDISING AND MANAGEMENT**

Students learn principles of motivating personnel, merchandising products and advertising of various types of food service units, meal management techniques involving menu planning, recipe development, staffing, training, safety, purchasing and production. Student projects involve producing an actual menu form which integrates knowledge gained in a laboratory setting.

*4 credits (1 lecture hour, 6 laboratory hours), fall semester*

**FSAD 222 – CERTIFICATION IN FOOD SAFETY MANAGEMENT**

A comprehensive course in food safety management, designed to lead to national certification as a food safety manager by a nationally accredited program approved by the Conference for Food Protection, Certified Professional Food Manager from Prometric. Open to off-campus students only.

*Pre/co requisite: FSAD 102 or permission of the instructor.*

*1 credit (15 lecture hours), spring, summer, winter or fall semesters*

**FSAD 255 - FOOD PURCHASING AND COST CONTROL**

Instruction in determining food products specifications, understanding distribution systems, supplier selection, specifications, and product knowledge. Also includes purchasing and inventory principles, as well as cost control.

*Prerequisites: FSAD 101*

*4 credits (2 lecture hours, 2 hours recitation), fall semester*

**FSAD 256 - INDUSTRIAL RELATIONS**

Management of people at work, the dimensions of labor management and responsibilities. Labor-management relations. Role playing in collective bargaining. Internal and external union functioning.

*3 credits (3 lecture hours), spring semester*

**FSAD 257 - SENIOR SEMINAR**

Prepares students for entry into professional management. Portfolio development, videotaped interviewing, discussion of technology and service strategies with experts from the industry, analysis and discussion of current trends are topics covered.

*1 credit (1 lecture hour), spring semester*

**FSAD 258 - RESTAURANT MANAGEMENT AND OPERATIONS**

A comprehensive course in restaurant management, designed to show the importance of an actual, operational food-service unit including organization, planning, leading, directing, (supervising) and measuring products and people, with applied emphasis on food purchasing, cost control, food preparation and customer service, merchandising, menu planning, advertising, and managerial decision making.

*Prerequisites: FSAD 101 or CUL 101, FSAD 102 or instructor's permission.*

*6 credits (1 lecture hour and 12 laboratory hours), spring semester*

**FSAD 259 - INTRODUCTION TO CATERING**

A basic course in catering whose purpose is to supply what is needed for the planning and executing of functions on given dates and at specific locations where food is of prime importance. The entire management of an event, including menu preparation, scheduling workers (fellow students), merchandising, purchasing of materials (food & non-food items), and cost control. A true "hands-on" and involved course—customer driven.

*3 credits (1 lecture hour, 2 laboratory hours)*

**FSAD 292 – PROFESSIONAL FOOD SERVICE MANAGEMENT CERTIFICATION**

A comprehensive course in Professional Food Service Management Certification. This course reviews all aspects of managing a foodservice operation including customer service, food safety, restaurant math, purchasing, inventory control, beverage control, human resources, food production and service management, menu design and analysis, food service accounting and financial management.

Designed to lead to national certification as a Professional food service manager by a nationally accredited program approved by the Conference for Food Protection, Certified Professional Food Manager from Prometric. Open to off-campus students only.

*Pre/co-requisite: FSAD 102 or permission of instructor*

*1 credit (15 lecture hours), fall, spring, summer, winter semesters*

**FSAD 293 – HAZARD ANALYSIS CRITICAL CONTROL POINTS (HACCP) MANAGEMENT**

A comprehensive course focusing on HACCP, the management system in which food safety is addressed through the analysis and control of biological, chemical, and physical hazards from raw material production, procurement and handling, to manufacturing, distribution and consumption of the finished product. This class is a national certification course leading to Certified HACCP manager as defined by The National Sanitation Foundation, Conference for Food Protection and Prometric.

*Pre/co requisite: FSAD 102, or FSAD 222, or permission of instructor Open to off-campus students only.*

*2 credits, (30 lecture hours), fall, spring, summer, winter semesters*

**GENERAL EDUCATION****GNED 100 - FIRST YEAR EXPERIENCE**

A survey of factors leading to academic success including the transition from home to college life, attitude structures, learning techniques, and skill development.

*2 credits*

**GNED 101 - SPEED READING**

Concentration on improving rate while maintaining or improving comprehension, through tachistoscopic and controlled reading. Fifteen sessions over a five-week period. Offered three times each semester.

*1 credit (15 contact hours), graded S/F*

**GNED 102 - PRACTICAL STUDY SKILLS**

Instruction and practice in study skills. The emphasis is on thinking about time management, reading texts, mnemonics, note taking, test taking, use of the library, and writing research papers.

*1 credit, (15 contact hours, 5-week course), graded S/F*

**GNED 103 - READING COMPREHENSION**

Introduces the student to the importance of reading and ways to understand the reading process. Emphasis is on the use of literal, interpretive and critical skills.

*1 credit (15 contact hours, 5-week course), graded S/F*

**GNED 104 - BASIC RESEARCH METHODS**

Designed to cultivate information savvy students and citizens, this course will help students develop lifelong skills to become confident and independent consumers and creators of information. Students will learn how to formulate their information needs, and how to locate, evaluate, and effectively use information. Other topics will include identifying and avoiding plagiarism, document styles, searching for and retrieving information in both library and open web environments, and becoming conscientious participants in information creation and dissemination in a variety of information sharing venues.

*1 credit (5 weeks) fall/spring semester 1 credit (15 contact hours, 150 minutes for 5 weeks, lecture, recitation, laboratory), fall semester*

**GNED 105 - SKILLS FOR THE ADULT RETURNING STUDENT**

Designed to meet the special needs of adult returning students. Deals with those factors which contribute to a successful academic experience. Topics will include the timing and sources of information, on programs and classes, building support systems (personally, academically, non-academically, and through scheduling), expectations of faculty and students and being acknowledged as adult students.

*1 credit, (15 contact hours, 5-week course), graded S/F*

**GNED 110 - COLLEGE AND CAREER PLANNING SKILLS**

A group learning experience to assist students in maximizing their success.

Through a variety of learning modes this course will address reasons for going to college, staying in college, academic and personal coping skills, curriculum and career choice, factors affecting success in college and occupational settings, techniques for self-exploration, sources of personal/educational/career information, and decision-making skills as they relate to personal planning.

*1 credit (15 contact hours, 5-week course), graded S/F*

### **GNED 111 - COLLEGE SKILLS FOR MATURE ADULTS**

Instruction and practice in the reading, mathematical and study skills needed by college students. Emphasis on improving speed and comprehension in reading, mastering basic mathematical skills, and improving skills in reading textbooks and taking lecture notes. For adults who have been out of school for some time.

*3 credits (3 lecture hours)*

### **GNED 112 - COMMUNICATION SKILLS FOR LEADERSHIP DEVELOPMENT (R.A. Class)**

Basic interpersonal communication experience with practical application to leadership concepts and functions. Leadership concepts, communication skills, problem solving techniques, management of time, assertiveness and confrontation techniques, conflict resolution techniques, program planning techniques and referral resources. Didactic and experiential instruction techniques, with heavy emphasis on experiential activities.

Limited to Resident Assistants.

*1 credit (S/F option), 10-week class*

### **GNED 115 - MEDICAL TERMINOLOGY**

Correlation with anatomical systems. Suffixes, prefixes, roots, stems. Use of medical dictionaries, filing and preserving records.

*3 credits*

### **GNED 120 – COLLEGE SUCCESS FOR CONTINUING STUDENTS**

This course open only by permission of instructor or the school dean to first-year students returning for their second semester. Working in teams and in close coordination with the instructor, students will complete an inventory of their academic strengths and weaknesses, and based on that feedback, develop a program of study for their re-maining time at Morrisville State College and plans for possible transfer. The ability to reflect realistically on the student's academic career, to find and evaluate relevant educational information and to nurture intellectual curiosity will be stressed.

*Pre-requisite Permission of instructor or dean only.*

*3 credits. (3 lecture hours) fall or spring*

### **GNED 203 - PEER TUTOR TRAINING I**

This course is designed to train students to become peer tutors. It introduces students to the theory and practice of tutoring. Such topics as the definition of tutoring, tutor responsibilities, basic tutoring guidelines, techniques for beginning and ending a session, learning theory, handling difficult students, role modeling, goal setting and planning, communication skills, active listening and paraphrasing, referral skills, study skills, critical thinking skills, ethics, and problem solving skills will be covered. Satisfactory completion of this course meets the tutor training requirements for the College Reading and Learning Association (CRLA) Level I Peer Tutor Certification.

*Pre-requisite: Completion of 12 college-level credits, grade of 'B' or better in course(s) to be tutored, and permission of instructor.*

*1 credit (15 week hybrid course), fall and spring semesters*

### **GNED 204-PEER TUTOR TRAINING II**

A continuation of GNED203, this course provides additional training to students who want to continue to develop their peer tutoring skills. The course will begin with a review of GNED 201 training topics and then proceed to the exploration of questioning skills, brain dominance learning, cultural awareness and inter-cultural communications/diversity, identifying and using resources, tutoring in specific skill/subject areas, and assessing or changing study behaviors. Satisfactory completion of this course meets the tutor training requirements for the College Reading and Learning Association (CRLA) Level II Peer Tutor Certification.

*Pre-requisite: minimum of C in GNED 203 and permission of instructor*

*1 credit (15 week hybrid course), fall and spring semesters*

## **GEOGRAPHY**

### **GEOG 101 – AN INTRODUCTION TO WORLD REGIONAL GEOGRAPHY**

This course introduces basic geographical concepts and an overview of the geography of the world. Students examine the world's major cultural regions, with emphasis on geographical aspects of contemporary economic, environmental, social and political relationships with the physical environment. Broader themes include connections among local and global ways of life in various world regions and the persistence of traditional cultures in the face of increasing socioeconomic and political interdependency.

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Other World Civilization.*

## **HISTORY**

### **HIST 101 – UNITED STATES HISTORY TO 1800**

This course is a survey of American history from its beginnings through the colonial, revolutionary and into the early national period, with emphasis on the development of our political, constitutional, economic, social and cultural institutions.

*3 credits (3 lecture hours) fall and spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for American History.*

*Students may not receive credit for both SOCS 101 and HIST 101*

### **HIST 102 – UNITED STATES HISTORY FROM 1800 TO 1900**

This course is a survey of American history from the Jeffersonian Era to the Era of Good Feeling, the Reform Movement, the Old South and Slavery, the Civil war and Reconstruction and ending with the rise of the Industrializing Age, with emphasis on the development of our political, constitutional, economic, social and cultural institutions.

*3 credits (3 lecture hours) fall and spring*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for American History.*

*Students may not receive credit for both SOCS 101 and HIST 102*

*Students may not receive credit for both SOCS 102 and HIST 102*

### **HIST 103 – UNITED STATES HISTORY FROM 1900 TO THE PRESENT**

This course is a survey of American History from the Progressive Era through Great Depression, the two World Wars, the Cold War, the social political and cultural changes of the 60's and 70's and into Reagan and the post Reagan Era, with emphasis on the development of our political, constitutional, economic, social and cultural institutions.

*3 credits (3 lecture hours) fall and spring*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for American History.*

*Students may not receive credit for both SOCS 102 and HIST 103*

### **HIST 151 – WORLD HISTORY TO 1600**

This course is an introductory survey of Ancient World History to 1600 C.E. It explores how human societies developed an increasingly complex set of socioeconomic and political systems in response to physical and cultural challenges. It begins with the development of agriculture as a key event and then focuses on the nature of early world civilizations. The course then studies the civilizations of representative cultures from all areas of the world including the Americas, Africa, East and South Asia, the Middle East, and Europe, demonstrating the way each society addressed key problems through its economic, political, and religious institutions.

*3 credits (3 lecture hours) fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Other World Civilization.*

*Students may not receive credit for both SOCS 103 and HIST 151*

### **HIST 152 – WORLD HISTORY FROM 1500**

This course is an introductory survey of Modern World History from 1500 C.E.



It explores the development and collapse of the great early modern empires. It then focuses upon political and economic modernization in Western Europe and the impact of that modernization on representative non-European societies between 1800 and 1945 including those in the Americas, Africa, East and South Asia, the Middle East, and Europe. Finally, the course highlights some of the issues faced by post-WWII non-European societies seeking to modernize in the shadow of Cold War conflict.

*3 credits (3 lecture hours) spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Other World Civilization.*

*Students may not receive credit for both SOCS 104 and HIST 152*

### **HIST 161 – EUROPEAN HISTORY TO 1648**

This course is an introductory survey of European History to 1648. It explores the key institutions of Western culture beginning with its origins in the Mediterranean region. The course focuses on the development of Western civilization into a set of competing states and the political, economic, and intellectual/religious institutions that bound these states together into a common civilization.

*3 credits (3 lecture hours) Fall Semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Western Civilization.*

*Students may not receive credit for both SOCS 103 and HIST 161*

### **HIST 162 – EUROPEAN HISTORY FROM 1500**

This course is an introductory survey of European History from 1500. It explores the development of a unique modern culture in Western Europe between 1500 and 1850 and the impact of this culture upon the world in the late 19th and early 20th Centuries. The course also discusses the Russian alternative to modern Western culture and how the two societies came into conflict during the Cold War in the late 20th Century. The course ends by describing the Cold War conflict and its legacy in the 21st Century.

*3 credits (3 lecture hours) spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Western Civilization.*

*Students may not receive credit for both SOCS 104 and HIST 162*

### **HIST 171 - ENVIRONMENTAL HISTORY**

A world history of human action and interaction in the natural world. Explains changing populations, technological and economic developments in geographical and ecological terms. Attention given to the history of religious and philosophical ideas concerning the place of humans in nature. Also considered is the history of modern environmental ideas concerning the human impact on the environment.

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Other World Civilization.*

### **HIST 172 – LATIN AMERICAN AND CARIBBEAN HISTORY**

This course surveys the broad sweep of Latin American and Caribbean history from Amerindian cultures before Columbus to the 21st century. The volatility of the multi-cultural societies of these lands, spilling over sometimes into fractious violence and brilliant creativity, will be a recurrent theme. Emphasis may vary between key personalities, social change, culture, conflict or gender. Students will be exposed to the main themes of Latin American and Caribbean history.

*3 credits (3 lecture hours) fall or spring*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Other World Civilization.*

### **HIST 181- HISTORY OF TECHNOLOGY TO 1800**

This course is a general survey of the history of technology from pre-historic times up to the Industrial Revolution. The course focuses on technology as a means to solve human problems, real or perceived, and the unexpected and unintended side-effects of technology in such areas as: agriculture, energy, communications, navigation, construction, and transportation.

*3 credits (3 lecture hours), Fall*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Other World Civilization.*

### **HIST 182- HISTORY OF TECHNOLOGY FROM 1750**

This course is a general survey of the history of technology from the Industrial Revolution to the present. The course focuses on technology as a means to solve human problems, real or perceived, and the unexpected and unintended side-effects of technology in such areas as: energy, communications, economics, health care, and transportation.

*3 credits (3 lecture hours), Spring*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Western Civilization.*

### **HIST 220 - AFRICAN AMERICAN HISTORY**

This course will focus on tracing African American history from its African origin through the experience of slavery to the present condition in the United States. Some of the objectives will be: to explore the rich African traditions and culture that were in place before slavery; to provide the analytical tools necessary to fully appreciate the Black struggle in its various dimensions; to critically assess the contributions of African Americans to American society from an economic, political and social viewpoint.

*Prerequisite: HIST 101, 102, or 103*

*3 credits (3 lecture hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for American History.*

### **HIST 221 – HISTORY OF THE VIETNAM WAR**

Analysis and survey of the history, personalities and events that lead to United States involvement in Vietnam from 1945 to the present. The course is an overview of early Vietnamese history and its impact on the twentieth century French and American wars in Indochina. It will seek to answer the questions: why was the US in Vietnam? What was accomplished? What are the lessons of Vietnam?

*Prerequisite: Any 100-level HIST course, or permission of Instructor*

*3 credits (3 lecture hours) fall or Spring Semester*

*This course satisfies the Liberal Arts and Sciences requirement.*

### **HIST 225 - WOMEN IN THE UNITED STATES**

This course will explore and analyze the role of women in the U.S. from 1607 to the present. It will critically assess women's experiences and contributions to our nation—politically, socially, economically, and culturally using the tools of social science and historical analysis.

*Prerequisite: HIST 101, 102, 103 or SOCI 101*

*3 credits (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for American History.*

### **HIST 320- HISTORY OF NEW YORK STATE**

This course includes the social, political and economic history of New York State from Colonial times through the twentieth century. Topics may vary from semester to semester but will include: The Iroquois and Algonquians, the Dutch and English in Colonial New York, Slavery, the Revolutionary War, the Erie Canal, the Underground Railroad, Women's Rights, The Shakers, The Mormons, The Abolitionist Movement, The Oneida Community, The Civil War, the Gilded Age, the World Wars and New York after World War II. Special attention is given to regional and Central New York History.

*Prerequisite: One of the following courses: HIST 101, HIST 102 or HIST 103 or permission of instructor*

*3 credits (3 lecture hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for American History.*

*Students may not receive credit for both SOCS 250 and HIST 320*

### **HIST 351- THE WORLD SINCE 1914**

This is an advanced topics courses focused on the history of the non-Western world from 1914 to the present. The course will examine global economic, political, and cultural trends of the period with an emphasis on their impact on the non-Western world. Topics include: imperialism, decolonization, economic development and globalization, and cultural movements like Pan-Africanism, women rights, and religious fundamentalism.

*Prerequisite: COMP 101, grade 'C' or better*

*3 credits (3 lecture hours)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Other World Civilizations.*

### **HIST 371 – THE WORLD WARS**

This is a general topics course covering the origins, events, and legacy of the First and Second World Wars. The course examines the nature of the wars including political and military strategy in the major theaters of each war. It discusses significant shifts in the balance of power between the great military powers of the world before, during, and after each conflict.

*Prerequisite: COMP 101 with a 'C' or better*

*3 credits (3 lecture hours) fall/spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Western Civilization.*

### **HIST 372 – THE COLD WAR**

This is a general topics course covering the origins, events, and legacy of the Cold War. The course discusses the Cold War as an ideological, military, and economic struggle between the United States and the Soviet Union. It also looks at the struggle from the point of view of the so-called Third World countries including countries those in Latin America and the newly independent societies of Africa and Asia.

*Prerequisite: COMP 101 with a 'C' or better*

*3 credits (3 lecture hours) fall/spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Western Civilization.*

## **HORTICULTURE**

### **HORT 100 - INTRODUCTION TO HORTICULTURE**

A dual-credit course with designated high schools to acquaint selected high school students with horticulture basics such as: plant processes, function, reproduction, and growth. Lab activities include plant propagation and greenhouse growing of various ornamental plants. Lectures will review career opportunities in a wide range of horticultural professions.

*3 credits (2 lecture hours, 1 recitation hour), fall semester*

### **HORT 101 - PLANT MATERIALS**

The identification and landscape characteristics of woody plants commonly found in landscapes of Northeastern United States. Part of each weeks labs include an outdoor plant walk to view various specimens in the landscape.

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### **HORT 102 - FLORAL DESIGN I**

Introduction to the principles, elements, and basic construction techniques of commercial floral design. Hands-on labs include: corsages, bud vases, assorted arrangements, dried flowers, wreaths, and holiday designs.

*2 credits (1 lecture hour, 2 laboratory hours), fall semester*

### **HORT 103 - LANDSCAPE PLANNING AND DESIGN I**

This course is an introduction to the design process, principles and vocabulary used in landscape architecture. The course content addresses landscape planning and design specifically as it applies to residential site design. Students gain creative problem-solving skills and explore effective methods of graphic, written and oral communication in a series of design projects. The semester culminates in a final design project in which students develop a landscape design solution for an actual residential site.

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### **HORT 105 - LANDSCAPE PLANNING AND DESIGN II**

This is a sequential course to Landscape Planning and Design I with emphasis on advanced landscape design skills and techniques. The course is organized around several studio design projects that vary in context, complexity, and scale. Students continue to apply the phases of the planning and design process and to strengthen their design knowledge, graphics, and communication skills. Fieldwork and field trips are required.

*Prerequisite: HORT 103 or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### **HORT 106 - FLORAL DESIGN**

A general overview of the sympathy flower industry. Topics will include: consultation, sales, traditions, and servicing funeral orders. Casket sprays, standing sprays, baskets, vases, and more will be featured in lab.

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### **HORT 108 - HERBACEOUS PLANT MATERIALS**

Identification, culture, and landscape use of annuals, perennials, and tropical foliage plants. Emphasis on plants that are commercially common to the Northeast.

*2 credits (1 lecture hour, 2 lab hours), spring semester*

### **HORT 109 - LANDSCAPE MANAGEMENT**

This course addresses the principles and practices of landscape installation, maintenance and management. The lectures focus on a range of topics such as the value of landscape management, the landscape industry, site analysis and preparation, soils, plant selection, water management, pest and weed management. Lab activities are organized around hands-on campus and community projects. Successful completion of this course could qualify a student to sit for the NYS Certified Nursery and Landscape Professional exam sponsored by the CNY Nursery and Landscape Association.

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### **HORT 110 - HORTICULTURE PRACTICES I**

Horticulture Practices is an on-going series of courses designed to engage students in a wide range of horticulture practices. These practices include methods acceptable by both commercial and research sectors of the Green Industry. HORT 110 is a freshman-level course that introduces students to basic science, production procedures, and entrepreneurial skills of horticulture.

*2 credits (1 lecture hour, 2 laboratory hours), fall semester.*

### **HORT 112 - INTRODUCTION TO HORTICULTURAL SCIENCE**

This course is organized to cover a broad range of topics about the principles and practices of horticultural science. These topics focus on the fundamentals of horticulture in terms of plant science, the culture of outdoor and indoor plants, and the industries within the field of horticulture. In addition to the two lectures per week, students will be involved in several hands-on horticultural practices during a weekly two-hour lab at the greenhouse.

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### **HORT 150 - FRUIT AND VEGETABLE PRODUCTION**

This course will cover the biology of fruits and vegetables. Emphasis will be placed on introducing students to soils, nutrition, botany as it relates to fruits and vegetables, site selection, planting, fruit and vegetable quality factors, pests (entomological, mycological, bacteriological, etc.), Integrated Pest Management (IPM) strategies, horticultural production practices, marketing strategies, and career opportunities. Students will gain a greater understanding of fruit and vegetable production industry, an increased knowledge of the variety of vegetables, and knowledge of the specific cultural needs of the common vegetable species. Reasons and principles for establishing crop production systems will be explored using observation, evaluation of current production models, and hands-on application of scientific concepts.

*3 credits (2 lecture hours, 2 lab hours) spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **HORT 200 - GREENHOUSE MANAGEMENT**

Lecture topics include greenhouse and nursery design, construction, structure, machinery, production methods, and operation. Laboratory exercises will include soil, media, nutrition, plant growth modification, and the identification and control of pests. Students are expected to grow a variety of commercial floriculture crops, including poinsettia. Participation in outdoor activities associated with field and container production of trees and shrubs is required.

*3 credits (2 lecture hours, 2 lab hours), fall semester*

### **HORT 201 - PLANT PROPAGATION**

This course involves the evaluation, analysis, and application of the scientific theoretical and technical practices of sexual and asexual plant propagation. The concepts to be explored utilizing observation and experimentation include

division and separation, layering, grafting, budding, cuttings, micropropagation, and seed propagation.

*Pre-requisite: BIOL 102 or permission of instructor*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **HORT 202 - GREENHOUSE PRODUCTION**

A greenhouse crop growing course. Lecture topics include crop scheduling, propagation, cultural procedures, pest/disease identification and control, and plant marketing. All major and minor ornamental crops common to commercial greenhouses will be discussed. Lab crop assignments will emphasize growing Easter lilies, pot mums, and bedding plants.

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### **HORT 206 - SUSTAINABLE LANDSCAPES**

This course addresses the principles and practices of sustainable landscapes and the current policies & guidelines used to achieve them. Areas of focus include: soils; water & energy conservation; biodiversity; permeable pavement; native plant species; alternatives to invasive plants; and construction material selection.

*3 credits (3 lecture hours), spring semester*

### **HORT 210 - HORTICULTURE PRACTICES II**

Horticulture Practices is an on-going series of courses designed to engage students in a wide range of horticulture practices. These practices include methods acceptable by both commercial and research sectors of the Green Industry. HORT 210 is a sophomore-level course which continues to introduce students to the basics while adding advanced production skills and technology. The level of student's crop and entrepreneurial responsibilities will also increase.

*2 credits (1 lecture hour, 2 laboratory hours), spring semester.*

### **HORT 240 - LANDCADD**

In this course students gain a basic proficiency in computer-aided drafting and design skills. The course covers software programs commonly used by professionals in the design fields such as AutoCAD, Google SketchUp, and Adobe Design Suite. Students are expected to apply this technical knowledge as a design tool in a series of projects that range in type & scale.

*Prerequisites: CAD 181 or permission of the instructor*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### **HORT 241 – PLANT PROTECTION**

HORT 241 is an interdisciplinary introduction to the study of pest management. This course involves the application, evaluation, and analysis of ecological, biological, and economic principles from each of the following disciplines: entomology, nematology, plant pathology, and weed science. Reasons and principles for establishing pest management programs will be explored using observation, evaluation of evidence, and hands-on employment of data.

*Prerequisite: BIOL 102 or permission of instructor*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **HORT 245 - LANDSCAPE ARCHITECTURAL DESIGN**

Conducted in a studio format, this capstone course is designed as a sequence of projects in which students apply and reinforce some of the most fundamental skills required in landscape architecture. Students are challenged and expected to expand their capacity for abstract & analytical thinking as it relates to the relationship of mass and space. A main focus is on translation of 2D compositions into 3D volumes. The projects will vary in scale and context to cover research, abstract and analytical thinking, aesthetic appreciation, drawing, design, and model making. Fieldwork and field trips may be required.

*Prerequisites: HORT 103, HORT 105, or permission of instructor*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### **HORT 250 - HORTICULTURE/LANDSCAPE INTERNSHIP**

The 160-hr internship provides the student with experience in an approved job in the horticulture industry. Final requirements include; a summary report oral presentation and employer and faculty evaluations.

*Prerequisites: Completion of one semester and permission of instructor*

*4 credits (160 hours of supervised employment), fall or spring semester*

### **HORT 310 – HORTICULTURE PRACTICES III**

Horticulture Practices is an on-going group of courses that is designed to introduce, educate, and reinforce a wide range of horticultural practices. These practices include methods acceptable by both commercial and research sectors of the Green Industry. The goal of this course is to develop a broad base of horticultural skills and knowledge. Students will continue to develop mastery of basic skills while assuming managerial responsibilities of horticulture institute, horticulture students, and departmental projects. Advanced technology and skills will be added with each semester and credit hour.

*Prerequisites: HORT 110, HORT 210, or permission of instructor*

*2 credits (2 lecture hours), fall semester*

### **HORT 320 – HORTICULTURE INTERNSHIP ORIENTATION**

Horticulture Internship Orientation prepares students for a horticulture industry internship and assists them with the process of employment and career development. The course helps students meet internship requirements such as goal definition, industry sponsor identification, job application and report writing. It formalizes internship planning and preparation to ensure that internships are conducted in a professional manner, follow guidelines, and satisfy the goals and objectives of students, faculty advisors, and industry sponsors.

*Prerequisite: Junior status or permission of instructor*

*1 credit (1 lecture hour), fall or spring semester*

### **HORT 400 – HORTICULTURE PRODUCTION MANAGEMENT**

Horticulture Production Management provides a solid grounding for managing a wholesale nursery. Nutritional, IPM, chemical, physical, biological, and economic principles and practices will be emphasized.

*Prerequisites: BIOL 102, HORT 200, HORT 201, and HORT 202 or permission of instructor*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### **HORT 403 – PLANTING DESIGN**

This course addresses the theory and practices of the landscape planting design process. Topics will be covered in lectures using textbook readings, Power Point presentations, and class discussions. The lab component is designed as a sequence of both studio and outdoor projects which will involve the student in applying the knowledge gained from the lectures and readings. The projects vary in type and scale to cover client relationships, site study, aesthetic, functional, and ecological plant uses, plant selection criteria, design process and vocabulary, design principles & elements, design graphic tools & techniques, planting plan drawings and models. A basic understanding of design, drafting and ornamental horticulture is needed to complete the assignments for the class. A semester-long sketchbook assignment and a design portfolio documenting student's projects and creative process are required.

*Prerequisites: HORT 101, 103, or permission of instructor*

*4 credits (2 lecture hours, 4 lab hours/week), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

### **HORT 420 – HORTICULTURE INTERNSHIP**

Horticulture Internship is a 200 hour supervised, professional experience appropriate to a professional position in the horticulture field. Students will be involved in a wide range of on-the-job work experiences in their chosen career field. Final requirements include: portfolio, journal, supervisor evaluation, summary report and oral presentation.

*Prerequisite: permission of instructor*

*5 credits (200 hours of supervised internship employment)*

### **HORT 430 – HORTICULTURE BUSINESS DEVELOPMENT**

Horticulture Business Development is the capstone course of the Horticultural Business Management BT curriculum. This course is designed to combine horticultural and business knowledge that has been presented during the previous three years. Special emphasis will be placed on the link between product development, branding, and sales. Current green industry trends will be closely examined with case studies and profiles of successful horticulture entrepreneurs.

*Prerequisite: Senior status or permission of instructor*

*3 credits (3 lecture hours per week), spring semester*



**HORT 440 – HORTICULTURE BUSINESS INTERNSHIP**

This required internship is a supervised, professional experience appropriate for an entry-level position in a horticultural business or related field. Prior to the start of the internship the student must develop and submit an in-ternship proposal that includes contact information, job description, goals, objectives, activities, and outcomes for the internship. The student, sponsor and faculty advisor must agree to the written plan in a signed contract. The on-site experience is about 15 weeks or 600 hours in length. In addition to agency supervision, each intern is advised and monitored by a faculty advisor on a regular basis. Final course requirements include: portfolio, journal, interim reports, mid-term assessment, supervisor evaluation, summary report and oral presentation.

*Prerequisites:* HORT 320 Horticulture Internship Orientation; Min. 2.0 GPA; *Permission of the instructor*

*15 credits, (600 hours of supervised internship employment), fall or spring semester*

**HUMANITIES****HUMN 210 - THE FILM EXPERIENCE (FORMERLY ENGL 240)**

This is an introductory course on films with emphasis on film both as an art form and as a shaper of social values. Viewing of key full-length dramatic features, experimental and other short films with related discussions, lecture and independent investigation.

*Prerequisite:* C or better in COMP 101

*3 credits (3 lecture hours), offered on a rotating basis*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

**HUMN 220 - INTRODUCTION TO ISLAM (FORMERLY HUMN 211)**

This course examines the way of life known as Islam. Students are introduced to cultural and religious aspects of life for more than one billion Muslims and Islamic principles of faith and practice, the Quran, Muslim cultural traditions and religious laws. Students will also explore the lifestyles of women, polygamy, the representation of Muslims in the media and shared similarities of Islam with Christianity and Judaism.

*Prerequisite:* C grade or better in COMP 101

*3 credits (3 lecture hours), offered on a rotating basis*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Other World Civilization.*

**HUMN 230 - RURAL STUDIES (FORMERLY ENGL 222)**

This interdisciplinary course will introduce students to the study of rural life in American history. Through an exploration of historical, literary, and cultural sources, students will examine the idea and reality of rural "life on the farm" in America's past and present. Grades will be based on class discussion, formal and informal writing as-signments, exams and collaborative assignments.

*Prerequisite:* C or better in COMP 101 and C or better in HIST 101, HIST 102, HIST 103, POLI 101, POLI 111 or SOCI 101

*3 credits (3 lecture hours), offered on a rotating basis*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

**HUMN 231 – NATIVE AMERICAN STUDIES (FORMERLY HUMN 223)**

Native American history, culture, philosophy, world view, religion, and art through its oral, written and visual literature. Students will be introduced to the oral tradition, and learn about tribal bio-regions and their cultures and traditions through their literature.

*Pre-requisite:* "C" or better in COMP 101

*3 credits\* (3 lecture hours), spring semester even years*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Other World Civilization.*

**HUMN 300- VISUAL COMMUNICATION**

(See COMM 300)

**HUMAN PERFORMANCE & HEALTH PROMOTION****HPHP 100 – INTRODUCTION TO WELLNESS AND FITNESS**

This course presents a basic understanding of physical fitness as it relates to health and disease. Emphasis is placed on safe, effective, techniques for developing all components of physical fitness. Course assists students in critically evaluating exercise information promoted by the media. Includes discussion of the many and varied career opportunities in exercise science.

*4 credits (3 lecture hours and 2 lab hours per week), fall and spring semester*

**HPHP 101 – FIELDWORK IN HUMAN PERFORMANCE AND HEALTH PROMOTION**

This course is designed to provide the student with his/her first practical experience in the corporate, clinic and/or community setting. The primary objective of this practicum is to give the student an opportunity to closely observe the daily operations of a facility in which exercise is used. This experience is intended to assist the student in determining potential areas of interest for the senior internship.

*Prerequisite:* HPHP 100

*1 credit (45 fieldwork hours), fall and spring semester*

**HPHP 200 – EXERCISE PHYSIOLOGY I**

HPHP 200 examines sport and exercise (primarily cardiovascular exercise) are assessed from a strong scientific and physiologic perspective. Topics covered include the body's acquisition and use of energy to fuel daily activities and exercise. Foundational muscular and cardiovascular physiology are evaluated, with an emphasis on how these systems adapt to training and exercise. Laboratory classes apply the principles learned in class to actual physiological experiments.

*Prerequisite or Co-requisite:* MAGN 101

*4 credits (3 lecture hours and 3 laboratory hours per week), fall semester*

**HPHP 201 – EXERCISE PHYSIOLOGY II**

HPHP 201 will continue the study the body's acquisition and use of energy to fuel daily activities and exercise, but with a more in depth view than was covered in the pre-requisite HPHP200 course. Students will become familiar with the chemical reactions involved in these energetic processes. The body's nervous system, and how electronic signals are sent throughout the body in order to elicit a required response. This will serve as a foundation for a more in depth discussion of the cardiac conduction system, and how the conduction of electricity through the heart can be mapped on an ECG. Students will also investigate the respiratory system, acid-base & temperature regulation, and how these factors adjust in response to exercise. Time permitting, training for higher performance will also be investigated.

*Prerequisite:* HPHP 200

*4 credits (3 lecture hours and 3 laboratory hours per week), spring semester*

**HPHP 300 – SPORT AND EXERCISE PSYCHOLOGY**

This course introduces the student to the psychological factors that influence individual and group sport and exercise participation. Topics include the influence of personal psychology and the environment on athletic performance, techniques to enhance athletic and exercise performance and adherence, and the dynamics of group processes as they relate to sports. Discussion to address psycho-social factors related to the healthy psychological growth and development of children including aggression, character development, and sportspersonship.

*Prerequisite:* PSYC 101, fall and spring semesters

*3 credits (3 lecture hours per week)*

**HPHP 301 – KINESIOLOGY AND APPLIED ANATOMY**

HPHP 301 examines the anatomical structures and mechanical aspects of human movement. Basic neuromuscular and biomechanical principles are introduced. Emphasis is placed on understanding the functional anatomy of the musculoskeletal and articular systems; the course will culminate in students utilizing knowledge of these systems to evaluate posture, locomotion, and a complex motion of their choice. Laboratory exercises concentrate on the role of muscle and joint action during basic movements. Students will be required



to apply their knowledge of anatomy towards understanding individual joint function as well as the integrated function of several joints during complex activities such as normal human locomotion.

*Prerequisites:* C- or better in BIOL 150

*Pre- or Co-requisite:* PHYS 107

*4 credits (3 lecture hours and 2 laboratory hour per week), fall semester*

### **HPHP 304 – COMMUNITY SERVICE IN EXERCISE AND SPORT SCIENCE**

This course is designed to enable the student to participate in and to lead volunteer work in the community pro-moting health and fitness. This experience emphasizes donating time to promote community well-being through application of a variety of skills developed in Human Performance and Health Promotion classes. The experience may include work at health or wellness fairs, at county health department functions, or in public schools.

*Pre- or Co-requisite:* HPHP 201

*Prerequisites:* MAST 100 and permission of the faculty member.

*1 credit (45 fieldwork hours), fall and spring semester*

### **HPHP 305 – FITNESS ASSESSMENT AND EXERCISE PROGRAMMING**

HPHP 305 develops the rationale for, and the skills required to evaluate and prescribe health-related fitness programs for individuals. Students will learn the theory underpinning cardiovascular, musculoskeletal and body composition assessment, then how this theory can be applied practically in designing appropriate exercise pre-scriptions. The practical laboratory also includes a component on exercise leadership in a facility setting, designed to prepare students for the professional setting of the Wellness Center Internship (HPHP 402). The course is also intended to help prepare the student to sit for a number of national certification exams.

*Prerequisite:* HPHP 201

*4 credits (3 lecture hours, 3 laboratory hours), spring semester*

### **HPHP400–APPLICATION OF STRENGTH AND CONDITIONING PRINCIPLES**

Provides students with the ability to develop and to implement sport-specific training programs, including peri-odization of the training cycle. Sport-specific conditioning of aerobic and anaerobic systems, including strength training, and discussion of short- and long-term benefits of specialized programs. Emphasis will be on appraisal and determination of individualized training needs and the establishment of personal performance goals. Includes instruction in the proper techniques and execution of training activities, as well as skill development in client ed-ucation. Practical mastery is included.

*Prerequisite:* HPHP 201

*3 credits (3 lecture hours), fall semester*

### **HPHP 401–CARDIOPULMONARY ASSESSMENT FOR EXERCISE**

Integration of cardiorespiratory physiological concepts into the assessment of an individual's aerobic capacity and the application of these data in designing an effective aerobic exercise program. ACSM Guidelines will be fol-lowed.

*Prerequisite:* HPHP 305

*3 credits (3 lecture hours), fall semester*

### **HPHP 402 – WELLNESS CENTER INTERNSHIP**

Experience in the operation of the Morrisville State College Wellness facility and in the promotion of wellness concepts on campus. Student assumes a leadership role in the wellness center performing administrative as well as practical exercise-related tasks including exercise testing, exercise programming, facility supervision, and client monitoring. Students participate in wellness promotions on campus including health fairs, dorm meetings, health center seminars, etc. Student works under direction of the center supervisor and a faculty sponsor.

*Pre- or Co-requisites:* HPHP 401, and permission of the faculty member.

*3 credits (135 fieldwork hours), fall and spring semesters*

### **HPHP 403 – EXERCISE PHYSIOLOGY FOR SPECIAL POPULATIONS**

HPHP 403 evaluates the impact of various disease processes in the cardiovascular and musculoskeletal assessment of an affected client. Diseases discussed

reflect common contemporary diseases that students are likely to encounter in a professional situation, but, time permitting, may be adjusted to suit student interests. Typical topics include diabetes, chronic heart disease, COPD, HIV/AIDS and arthritis. Because this is a 400 level class, recent research related to these topics is also reviewed, analyzed, discussed in class and assessed in in-semester and final exams.

*Prerequisite:* HPHP 305

*3 credits (3 lecture hours), fall semester*

### **HPHP 404 – FITNESS PROGRAM LEADERSHIP AND ADMINISTRATION**

Prepares the student to manage and operate a health/fitness program. Provides instruction in the areas of decision making, problem solving, personnel issues, fiscal policies, budgetary procedures, legal foundations, and facility management.

*Pre- or Co-requisite:* HPHP 402

*3 credits (3 lecture hours), spring semester*

### **HPHP 405 – HUMAN PERFORMANCE AND HEALTH PROMOTION CAPSTONE INTERNSHIP**

Capstone experience for all Human Performance and Health Promotion majors. A practical learning experience in an exercise setting. Sites include corporate fitness centers, wellness clinics, university fitness facilities, and community-based health clubs. Students are involved with day-to-day operations of the agency. Involves var-iable 270 - 540 hours of work at chosen agency.

*Corequisite:* HPHP 400, HPHP 401, HPHP 403 and permission of faculty member

*Variable 6 Credits (270 fieldwork hours), spring semester*

## **HUMAN SERVICES**

### **HUMS 100 – CAREERS IN THE HELPING PROFESSIONS**

This course will generate one credit hour by producing 16 hours of contact time over a 15-week semester. This course is designed to assist students wishing to pursue careers in helping professions. Focus will be on researching the breadth of positions available as well as salary range and educational requirements. Attention will also be given to specific concerns associated with professional helpers such as boundaries, interpersonal skills, and appropriate conduct in both the professional and personal settings.

*Prerequisite:* None

*Co-requisite:* HUMS 101; HUMS 141

*1 credit (1 lecture hour/week), fall and spring semesters*

### **HUMS 101 - INTRODUCTION TO HUMAN SERVICES**

The human service field and helping professions, including the theoretical systems for understanding human be-havior, modalities of intervention, counseling skills, social policy, and professional ethics and standards.

*3 credits (3 lecture hours), fall or spring semester*

*These credits count toward the Social Sciences (list C) requirements for graduation.*

### **HUMS 141\* - INTERNSHIPS IN HUMAN SERVICES I**

A field-based internship experience providing social science majors an opportunity to combine their internship experience in a human service setting. Students will be required to combine their internship experience with written work to process their experience.

*Corequisite:* HUMS 100; HUMS 101 and permission of instructor

*1 credit for each unit, fall or spring semester*

*[Offered at Norwich Campus]*

### **HUMS 142\* - INTERNSHIPS IN HUMAN SERVICES II**

A field-based internship experience providing social science majors an opportunity to combine their internship experience in a human service setting. Students will be required to combine their internship experience with written work to process their experience.

*Prerequisite:* HUMS 100; HUMS 101, HUMS 141 and permission of instructor

*1 credit for each unit, fall or spring semester*

*[Offered at Norwich Campus]*

### **HUMS 143\* - INTERNSHIPS IN HUMAN SERVICES III**

A field-based internship experience providing social science majors an opportunity to combine their internship experience in a human service setting. Students will be required to combine their internship experience with written work to process their experience.

*Prerequisite:* HUMS 100; HUMS 101, HUMS 141 and permission of instructor

*1 credit for each unit, fall or spring semester*

*[Offered at Norwich Campus]*

### **HUMS 200 – HELPING PROCESSES AND CRISIS INTERVENTION**

This course will provide students with the skills and techniques necessary to effective helping. Students will be introduced to the role of the helper as well as the process of helping. Students will gain knowledge and understand competent multicultural practices and helping skills as well as the theories associated with helping and crisis intervention.

*Prerequisites:* HUMS 100, PSYC 101, HUMS 101, and HUMS 141

*Co-requisites:* HUMS 142 and HUMS 143

*3 credits (3 lecture hours/week), fall semester*

### **HUMS 201 – COUNSELING AND CASE MANAGEMENT**

This course will provide an applied foundation to interviewing and counseling techniques. Students will examine strategies pertaining to intentional interviewing and effective interventions. Focus will be given to human strength and resilience. Attention will also be given to the foundations of case management and the importance of this role as a human service provider. Cultural consideration will be integrated into both aspects of this course.

*Prerequisites:* HUMS 200 and SOCI 101

*3 credits (3 lecture hours/week), spring semester*

### **HUMS 202 – MANAGEMENT AND ADMINISTRATION OF HUMAN SERVICES**

This course will focus on the practices and skills vital to the management and administration of human service delivery. The course will provide an overview of topics associated with human service management such as: the functions of human service management, program development and evaluation, community collaboration, organization theory, and supervisory skills. Students will gain an understanding of technology utilized in the storing and managing of data and finances pertaining to human service administration.

*Prerequisites:* SOCI 101

*Corequisite:* HUMS 201

*3 credits (3 lecture hours/week), spring semester*

### **HUMS 250 – HUMAN SERVICE PRACTICUM**

This is the final required course for the Human Services AAS degree program. This course is designed to provide human services students with an opportunity to integrate and assimilate previous learning experiences with human service delivery. Practical field experience combined with lecture and self-reflection enable students to critically assess their personal, professional, and social values as well as practice interpersonal skills in a learning environment. Course assignments and class discussion will enable students to examine influences of organizational structure, funding sources hiring and training of personnel, as well as other agency policies and procedures on the delivery of services. Students will spend 125 hours at a negotiated human services site, 16 hours in a structured classroom setting, and will complete a Capstone presentation to faculty and practicum supervisors. Successful completion of this course will require a grade of B or better since this course is intended to evaluate the readiness of graduates to participate in human service employment.

*Prerequisite:* Senior status

*3 credits (3 lecture hours/week), spring semester*

## **INDIVIDUAL STUDIES**

### **ISP 101 – COLLEGE SUCCESS FOR INDIVIDUAL STUDIES STUDENTS**

For Individual Studies Majors Only. This course will guide the students through the process of setting educational and career goals, in understanding how their Individual Studies major is tied to those goals, and in identifying strategies that will help promote the students' success in achieving their goals. Students who have taken GNED 110, GNED 119, or EDU 101 may not take this course.

*Prerequisite:* Student is enrolled in the Individual Studies Program or permission of instructor. Not a campus wide elective.

*1 credit (1 lecture hour), fall or spring semester*

## **INSURANCE**

### **INS 201 - INSURANCE PRINCIPLES I**

This course is the first of two courses that qualify prospective brokers and agents to take the New York State Insurance Brokers and Agents Examination. Topics include insurance basics, personal lines policies and coverage, and New York Insurance Law. (Taught at the Norwich Campus only)

*3 credits (3 lecture hours)*

### **INS 202 - INSURANCE PRINCIPLES II**

This is the second of two courses that qualify prospective brokers and agents to take the New York State Insurance Brokers and Agents Examination. The course covers a broad spectrum of insurance concepts, coverage and law. This course completes the ninety-hour course of study required by the State of New York Insurance Department with discussions of commercial property, liability, auto, compensation and other commercial forms of insurance. (Taught at Norwich Campus only)

*3 credits (3 lecture hours)*

## **JOURNALISM**

### **JOUR 101 - INTRODUCTION TO MASS COMMUNICATION**

Survey of the mass media to present vocational opportunities, to familiarize students with leading newspapers, magazines, broadcasting, and other communication media, to explore the media's place in American history, and to examine some of the major issues confronting the press and mass media today. Introduction to communication theory.

*3 credits (3 lecture hours), fall semester*

### **JOUR 111 – NEWS WRITING & EDITING**

Fundamentals of news writing, the techniques of gathering news, and the elements of writing style that make a good reporter. Elements of the news story including the lead, style and structure of news stories, copy editing, news sources, and types of news stories.

*Pre or Co-requisite:* COMP 101 or permission of instructor.

*3 credit hours (2 lecture, 2 lab hours), fall semester.*

### **JOUR 112 - NEWS WRITING II**

In-depth study of reporting and writing news, details of government, politics, courts, education and science writing.

*Prerequisite:* Grade of "C" or better in JOUR 111

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### **JOUR 114 - NEWS EDITING**

Principles of editing for print, broadcast and Internet copy focusing on style, grammar, syntax. Introduction to CART (Computer-Assisted Reporting Techniques) and ethical considerations applied through the editing process.

*Prerequisite:* Grade of "C" or better in JOUR 112

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### **JOUR 121 - PRINCIPLES OF PRESS PHOTOGRAPHY**

An introduction to the use of photography in delivering the news. The course includes an introduction to basic camera functions, the rules of photographic composition, the use of digital manipulation software and storytelling through images.

*3 credits (2 lecture hours, 2 laboratory hours) spring semester*

### **JOUR 122 - ADVANCED PHOTO JOURNALISM**

Intensive study of photography and photographic equipment with emphasis on photojournalism and techniques of the freelance photographer. \$40 lab fee, \$40 rental fee, \$50 refundable deposit.

*Prerequisite:* JOUR 121

*3 credits (2 lecture hours, 2 laboratory hours), spring semester, alternate years*

**JOUR 126 – BROADCAST WRITING AND EDITING**

Broadcast Writing & Editing is designed to provide Journalism majors an introduction to the writing formats and editing styles used to deliver news content clearly and conversationally in the form of radio and Internet broadcasts (podcasts), television packages or stories, and commercial promotions used by a variety of businesses and organizations worldwide, to gain public attention for events and happenings as well as products and services. Students will research, write and format scripts for broadcast stories on deadline, including content for news, sports, in-depths, packages, mini-documentaries, as well as commercial, entertainment and promotional news. A highlighted component to this course is Resourceful Exercises, in which students will be sent breaking news assignments during a 24/7 period, have to research the topic and submit the proper broadcast formatted script on deadline.

*Pre/Co-requisite: COMP 101*

*3 credits (3 lecture hours) Spring semester*

**JOUR 185 - PRODUCTION LABORATORY I**

Work experience in one of the following publications or publications-related activities: college newspaper, radio station, or photography. Deadline pressures, layout and format techniques, staff composition and problems, and FCC and print ethics.

*1 credit (2 laboratory hours), fall semester*

**JOUR 186 - PRODUCTION LABORATORY II**

Continuation of JOUR 185.

*1 credit (2 laboratory hours), spring semester*

JOUR 187/188 Production Lab in WCVM Media I and II

JOUR 287/288 Production Lab in WCVM Media III and IV

JOUR 387/388 Production Lab in WCVM Media V and VI

JOUR 487/488 Production Lab in WCVM Media VII and VIII

This series of production laboratory experiences provide the student operational staff necessary to keep the campus broadcast center, WCVM Media, functional for a 10-week period. WCVM is composed of an AM radio station, Internet radio station, Cable TV channel, and a digital video production unit. Depending on the laboratory experience for which the participant is enrolled, student may work a minimum of 5 to 9 hours per week (1 credit hour = 45 hours) as content producers. While these labs are degree requirements for the B.S. in Videojournalism Communication, students from all campus majors are eligible to participate for academic credit toward graduation.

*Prerequisite: Permission of instructor required*

JOUR 187/188 (1 credit; 1 credit hour), fall/spring

JOUR 287/288 (1 credit; 1 credit hour), fall/spring

JOUR 387/388 (2 credits; 2 credit hours), fall/spring

JOUR 487/488 (1 credit; 1 credit hour), fall/spring

**JOUR 201 - SPORTS WRITING**

This course provides an introduction to the specialized skills required for reporting and writing about sports for newspapers, magazines and the Web. Game coverage, advances, wraps, features and non-contest reporting are also covered.

*Prerequisite: Minimum grade of B in JOUR 111 or permission of instructor.*

*3 credits, (2 lecture hours, 2 laboratory hours), spring semester*

**JOUR 211 - FEATURE WRITING**

Investigative and interpretative reporting through extensive use of the news conference. Students will develop interviewing, research, and feature-writing skills.

*Prerequisite: JOUR 112*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

**JOUR 214 - SPECIALIZED WRITING**

Writing and preparing for publication of columns, interpretative articles and feature pieces for newspapers or magazines.

*Prerequisite: JOUR 112*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

**JOUR 220 – MASS MEDIA & SOCIETY**

An investigation of the effects of mass media on society and social systems. This course examines the processes of mass media and their influences on their audiences, with emphasis on the majority and minority voices and viewpoints it creates and promotes. Specific topics will include race, class and gender in mass media, gate-keeping and agenda-setting in media content, news media, entertainment media, feedback and control, audience analysis, and developing skills in critical media literacy.

*Prerequisite: SOCI 101 with a C+ or better, or permission of instructor*

*3 credits (3 lecture hours)*

**JOUR 261 - THE GRAPHICS OF MASS COMMUNICATION**

Advanced newspaper layout and design. Introduction to magazine layout and design. Visual aspects of advertising, such as the use of color to sell a product, plus a unit on promotional material, i.e., brochures, campaigns, including instruction on paper selection and mailing.

*Prerequisite: JOUR 114*

*2 credits (1 lecture hour, 2 laboratory hours), fall semester*

**JOUR 270 - DESKTOP PUBLISHING**

Provide the basic skills of Desktop Publishing to those already familiar with word processing. It is designed to facilitate control of the publishing process—editing, typesetting, design, graphic production, and page makeup from one's own personal desktop. Includes Web page design.

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

**JOUR 272 - PUBLIC RELATIONS AND PUBLICITY MANAGEMENT**

This course will cover essentials for public relations practitioners, including a brief theory-based discussion of the origins of P.R. at the turn of the century and its evolution into a leading industry in today's world. Students will learn firsthand how to identify target audiences and will go through exercises in drafting, producing, and distributing a wide range of P.R. messages to those publics using mass media and emerging communications technologies. Special topics will include crisis public relations, speech writing, and conducting press conferences and other media briefings. This class is open to non-majors with permission from the instructor.

*3 credits (3 lecture hours)*

**JOUR 280 - BROADCAST MANAGEMENT, NEWS AND PROMOTION**

This class offers a "work to show" class where students learn the business of broadcasting including: management and marketing techniques, sales and promotion strategies, and non-linear video editing production. Professionals in the local and regional broadcasting markets guest lecture, as well as host students through field trip visits.

*Prerequisite: Permission of instructor*

*3 credits, fall semester*

**JOUR 285 - PRODUCTION LABORATORY III**

Allows seniors to earn credit for supervisory publication work. CHIMES and photography workers learn editors' functions while WCVM staff learn management and FCC training.

*1 credit (2 laboratory hours), fall semester*

**JOUR 286 - PRODUCTION LABORATORY IV**

Continuation of JOUR 285.

*1 credit (2 laboratory hours), spring semester*

**JOUR 290 - ADVERTISING STRATEGIES**

An overview of advertising theory and practice which covers advertising's place in society, its relation to marketing and communications, its forms of media, and its creative elements—art and copy. Students create an entire production advertising campaign for a client.

*Prerequisite: Permission of instructor*

*3 credits (3 lecture hours)*

**JOUR 313 – BROADCAST SCRIPT WRITING**

Broadcast Script writing will provide students with weekly news and

entertainment producing seminars designed to tailor their abilities to research, write and format, and critique in-depth journalistic writings appropriate for use in any communications profession, but specific to projects related to radio, television (including Internet video streaming), and film script writing. Lecture meetings, as well as independent research and individual consultation sessions, are an integral part of the story origination and execution process for programming related to both the news and entertainment industries.

*Prerequisites: "C" or better in COMP 101 and 102, or permission of instructor*  
*3 credits (3 lecture hours) fall or spring semester*

### **JOUR 315 – ONLINE WRITING & PRODUCTION**

Adapting written, audio, and video files for the Internet, incorporating style and format changes to accommodate online audiences. Writing assignments for news and marketing content. Examination of the elements of print and broadcast writing styles that contribute to online content. A thorough review of the differences and similarities that mark the era of media convergence in journalism.

*Prerequisites: JOUR 214 with a C+ or better*  
*3 credits (2 lecture hours, 2 laboratory hours)*

### **JOUR 317 – WRITING NONFICTION FOR MAGAZINES.**

Introduction to the specialized skills required for finding, researching and writing non-fiction stories for magazines. Students will learn how to target potential publication sites, write pitch letters, and negotiate publishing contracts. Prerequisite: "C" or better in COMP 101, submission of writing portfolio and permission of instructor.

*3 credits (2 lecture hours, 2 lab hours), spring semester only*

### **JOUR 326 - VIDEO JOURNALISM I PRODUCTION/EDITING**

Videojournalism I (Production/Editing) is designed so students emulate the world of videojournalists or "news content producers" in the field. These producers determine what broadcast news is, how to best present it to a specific audience, and how to best technically gather information on deadline within a business model. Students will learn the technical parameters of digital video cameras, audio and video editing, and basic field production. Broadcast writing formats and editing protocol are integral components of this course.

*Prerequisite: "C" or better in JOUR 126 Broadcast Writing & Editing.*  
*3 credits (3 lecture hours), fall or spring semester*

### **JOUR 327 - VIDEOJOURNALISM II CONTENT PRODUCING ACROSS MEDIA PLATFORMS**

This course provides students a variety of broadcast platforms to perform video shooting, technical editing for audio and video, file conversion, and infographics production. Students will also independently research story themes, visually create, and technically convert audio and video content for use across diverse media platforms including, but not limited to, television, Internet websites, podcasts, and cell phone video. Chromakey use, multi-source video production as well as computer graphics and video editing software will play an integral role in the content conceptualization and production processes of visual storytelling. Prerequisites: "C" or better in JOUR 326 *Videojournalism I (Producing/Editing)*

*3 credits (3 lecture hours) spring*

### **JOUR 328 – VIDEOJOURNALISM III ETHICAL/LEGAL ISSUES FOR CONTENT PRODUCING**

This course provides students with numerous case studies focusing on First Amendment issues, industry codes of conduct, the Federal Communications Commission, media access, copyright law, confidential sources, labor law, freedom of information, defamation of character, Internet legalities, and current industry topics in the news. Videojournalism III offers students detailed information to keep themselves and their content legal, while best trying to educate the audience they pledge to serve.

*Prerequisite: Permission of instructor.*  
*3 credits (3 lectures per week) fall*

### **JOUR 345 – WEB CONTENT DESIGN**

Instruction in basic Web design, with the emphasis on the development of skills related to online journalism. Students will be able to edit Web pages for clarity and appearance that enhances readability and access. Students will learn principles of Web design, getting started with Dreamweaver software,

and developing a Web site. The course features step-by-step instructions and in-depth explanations of the features of Macromedia Dreamweaver and Flash. Instruction includes working with text and graphics, links, animations and tables. In addition, students will understand and create cascading style sheets and page formatting.

*Prerequisites: JOUR 270 and JOUR 315 with a C or better, or permission of instructor*  
*3 credits (2 lecture hours and 2 lab hours per week), fall or spring semester.*

### **JOUR 385 – PRODUCTION LAB IN JCOM I**

Students will produce the online version of the CHIMES newspaper, updating content on a daily basis and maintaining close contacts with the print CHIMES staff. It is expected that students will take increasingly prominent roles as editors in the laboratory. The course includes instruction on intermediate Web authoring and online editing.

*Prerequisite: JOUR 286 – CHIMES Production Lab or permission of the instructor*  
*1 credit (2 laboratory hours)*

### **JOUR 386 - PRODUCTION LAB IN JCOM II**

Students will produce the online version of the CHIMES newspaper, updating content on a daily basis and maintaining close contacts with the print CHIMES staff. It is expected that students will take increasingly prominent roles as editors in the laboratory. The course includes instruction on intermediate Web authoring and online editing.

*Prerequisite: JOUR 385 or permission of the instructor*  
*1 credit (2 laboratory hours)*

### **JOUR 401 – LEGAL AND ETHICAL ISSUES OF MASS COMMUNICATION**

Students will research several case studies that represent various legal and ethical issues past and present, including freedom of speech, publishing by authority, alien and sedition laws, libel and slander, bias and prejudice and conflicts of interest in reporting, right to privacy, professional codes of conduct, shield laws, FCC regulation of broadcast entities, and the emerging debate over censorship if the Internet. Current related issues in the news will also be explored as available.

*Prerequisite: Jour 214 or permission of instructor*  
*3 credits (3 lecture hours), fall semester*

### **JOUR 409 – PRE-INTERNSHIP SEMINAR**

Prepares students in the B.S. in Journalism & Communication for Online Media degree program for the 6-credit internship in the following semester. Integrates rules and regulations from the work place with academic and professional standards for performance, conduct, and communication within an organization. Students will also use this course to prepare solicitations for, and secure, their internship sites for the following semester.

*Prerequisite: JOUR 315 -- Online Writing & Production – With a grade of C+ or better*  
*1 credit (One seminar hour per week)*

### **JOUR 410 – INTERNSHIP IN JOURNALISM & COMMUNICATION FOR ONLINE MEDIA**

In this course, students will work in a professional business setting—either in person or on campus through online and phone correspondence—to establish and maintain a professional Web site for that business. Eligible businesses may or may not be related to journalism. Students will utilize writing skills learned in previous courses to generate content appropriate to the client and to prepare that content for uploading on a daily or weekly basis as appropriate. Students will work collaboratively with client employees and will be expected to conduct themselves in a manner consistent with high professional standards.

*Prerequisites: JOUR 409 – Pre-Internship Seminar*  
*12 credits (A minimum of 400 hours in an internship setting plus 40 hours with the instructor, including all as-assignments)*

### **JOUR 411 – CAPSTONE COURSE IN JOURNALISM & COMMUNICATION FOR ONLINE MEDIA**

This course draws together all the elements of the B.S. degree in Journalism & Communication for Online Media, including technical applications, writing skills, liberal arts and elective courses and internship experience. Students will be required to meet in lecture, seminar and laboratory settings, and to discuss common and individual experiences from their internship and other applied academic activities. Emphasis will be on the examination of specific skills sets



as well as students' problem-solving skills, goal setting, self-assessment, and oral and written communication skills. Students will perform a community-service project in which they will provide Web content for a local nonprofit agency. They will also prepare a report of their activities in the form of a capstone presentation to be delivered to a campus audience at the end of the semester.

*Prerequisite:* JOUR 410 – *Internship in Journalism & Communication for Online Media*  
3 credits (1 lecture hour; 1 seminar hour; 2 laboratory hours)

### **JOUR 426 - VIDEOJOURNALISM IV REMOTE BROADCAST PRODUCTION**

This work-to-show class enables students to produce live remote broadcasts for radio, television, and the Internet – news, sports, special event meetings, plays, and more. Students will learn the real world challenges and rewards of “live content producing” – planning, site surveying, budgeting, executing, and evaluating the production process. Many of the productions will be researched and produced independently by a team of Videojournalism producers.

*Prerequisite:* JOUR 327 *Videojournalism II (Content Producing Across Media Platforms); permission of in-structor*  
3 credits (3 lecture hours) spring

### **JOUR 428 - VIDEOJOURNALISM INTERNSHIP**

This 12-credit, in-field experience offers students preparation for full-time employment. Students work collaboratively in a professional work environment with an on-site mentor, who will assign duties and responsibilities similar to those of on-staff videojournalists or content producers.

*Prerequisite:* 'B' or better in JOUR 427 *Video Portfolio*  
12 credits (2 credit hours) spring

### **JOUR 485 - PRODUCTION LAB IN JCOM III**

Students will produce the online version of the CHIMES newspaper, updating content on a daily basis and maintaining close contacts with the print CHIMES staff. It is expected that students will take increasingly prominent roles as editors in the laboratory. The course includes instruction on intermediate Web authoring and online editing.

*Prerequisite:* JOUR 386 or permission of the instructor  
1 credit (2 laboratory hours)

### **JOUR 486- PRODUCTION LAB IN JCOM IV**

Students will produce the online version of the CHIMES newspaper, updating content on a daily basis and maintaining close contacts with the print CHIMES staff. It is expected that students will take increasingly prominent roles as editors in the laboratory. The course includes instruction on intermediate Web authoring and online editing.

*Prerequisite:* JOUR 485 or permission of instructor  
1 credit (2 laboratory hours)

## **LITERATURE**

### **LITR 203 - AMERICAN LITERATURE TO 1900**

This course surveys the voices of North America up to and beyond the Civil War. It covers Indians, explorers, slaves and pioneers. Students are introduced to philosophical and political pondering, the birth of the short story, and the forging of the North American character.

*Prerequisite:* C or better in COMP 101  
3 credits (3 lecture hours), fall semester  
*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

### **LITR 204 - AMERICAN LITERATURE 1900 TO PRESENT**

Step into a time machine and witness the unfolding of Modern America, from the 1870's to the 1970's and beyond. This course surveys the writers who influenced and echoed the culture that shapes our times. Meet immigrants, flappers, beatniks and more, in poems, stories, etc.

*Prerequisite:* C or better in COMP 101  
3 credits (3 lecture hours), spring semester  
*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

### **LITR 205 - ENGLISH LITERATURE TO 1800**

This survey course brings to life monsters, dragons, knights, poets, angels and actors from English literature and culture of the eighth through eighteenth centuries. Watch Beowulf fight Grendel, take a journey to Canterbury with Chaucer's pilgrims, see a Shakespearean play at the Globe Theatre, gasp as Milton's angels fall from heaven, visit exotic lands with Gulliver, and more.

*Prerequisite:* C or better in COMP 101  
3 credits (3 lecture hours), fall semester  
*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

### **LITR 206 - ENGLISH LITERATURE 1800 TO PRESENT**

Murderers, monsters, lovers and lunatics stalk the pages of British literature since the eighteenth century. This survey starts with the revolutionary ideas of Wordsworth, Coleridge, and other Romantics. The Victorian period that follows reveals surprising contrasts such as Tennyson's practical analysis of issues and Morris's artistic rejection of meaning. Finally, the survey shows how modern authors such as Yeats and Pinter build upon or reject the heritage of the past.

*Prerequisite:* C or better in COMP 101  
3 credits (3 lecture hours), spring semester  
*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

### **LITR 207 - WESTERN WORLD LITERATURE**

This is a Western literature course which examines literature in translation from South, Central and North America, as well as the Caribbean and from Africa and Europe. Students will research, read, discuss, and write about early and modern texts from countries within the western bioregion, such as Italy, France, Russia, Chile, Argentina, Cuba, Canada, Ghana, Nigeria, South Africa, and others. Students will be introduced to a broad survey of literature that will provide a window on the culture, history, and geography of the regions in their texts.

*Prerequisite:* C or better in COMP 101  
3 credits (3 lecture hours), fall semester  
*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

### **LITR 208 - EASTERN WORLD LITERATURE**

This is a world literature survey course that examines literature in translation from the Middle East, Asia, Australia and the Eastern Pacific Basin. Students will read, discuss, and write about early, middle period, and modern text selections from regions including Israel, Palestine, Saudi Arabia, India, Tibet, China, Japan, Korea, Vietnam, Singapore, Australia, New Zealand, and Samoa. Students will be introduced to a broad survey of literature that will provide a window on the culture, history, and geography of the regions in the texts.

*Prerequisite:* C or better in COMP 101  
3 credits (3 lecture hours), spring semester  
*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities and Other World Civilization.*

### **LITR 211 - BLACK AMERICAN WRITERS**

Chronological survey of the contribution of the Black American writer from the days of slavery to the present. Slave narratives, novels, plays, short stories, and poems.

*Prerequisite:* C or better in COMP 101  
3 credits (3 lecture hours), fall or spring semester  
*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

### **LITR 221 - LITERATURE OF GENDER**

Reading, discussion, and written analysis of literature emphasizing the significance of changing gender roles portrayed in various genres, in different cultures and in different eras.

*Prerequisite:* C or better in COMP 101  
3 credits (3 lecture hours), offered on a rotating basis  
*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

**LITR 231 - MODERN LITERATURE**

Reading, discussion, and written analysis of 20th century novels, short stories, poetry, plays, and nonfiction with a multicultural emphasis.

*Prerequisite: C or better in COMP 101*

*3 credits (3 lecture hours), offered on a rotating basis*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

**LITR 232 - MAJOR AMERICAN NOVELS**

Reading and discussion of novels which have had an impact in American literature, of their authors, and of the changes in American literature as evidenced through these novels. Concepts of the novel explored through criticism and explication.

*Prerequisite: C or better in COMP 101*

*3 credits (3 lecture hours), offered on a rotating basis*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

**LITR 233 - LITERATURE AND THE ENVIRONMENT**

A chronological survey of North American writers on the environment from the Colonial period to the present. Special attention is paid to H.D. Thoreau, Aldo Leopold, Rachel Carson, Edward Abbey, Barry Lopez, and others.

*Prerequisite: C or better in COMP 101*

*3 credits (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

**LITR 234 - ASPECTS OF CONTEMPORARY LITERATURE**

Reading, discussion, and writing about fiction, drama, poetry, and nonfiction produced since World War II. Emphasis on developments in literary genres and criticism, as well as on social and cultural developments as re-lected in the texts.

*Prerequisite: C or better in COMP 101*

*3 credits (3 lecture hours), offered on a rotating basis*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

**LITR 342 - SCIENCE FICTION**

This course will cover the scope and definition of a huge genre relating to many aspects of current life and interest. Topics will cover all levels of the area from horror to time and space literature. Emphasis will be on the rich and classic history which includes movement from books to television and movies. The literary elements and rationale for such writing will also be discussed along with an opportunity to begin understanding of the many choices and future of this writing.

*Prerequisite: C or better in COMP 101; COMP 102 recommended*

*3 credits (3 lecture hours)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

**MANDARIN CHINESE****CHIN 101 – BEGINNING MANDARIN CHINESE I**

This course is an introductory first course to the Mandarin Chinese language. It presupposes no prior knowledge of Mandarin Chinese. Using communicative approach, students will explore basic phonetic system of Chinese (Pin-yin), basic character writing, sentence structure and Chinese culture through activities. Students will learn to listen, speak, write and read at a beginning level. Note: This course is not designed for heritage learners, or students who have taken 3 or more years of Mandarin Chinese in high school. A student with more than a beginner level of proficiency in Mandarin Chinese should meet with the instructor prior to registration to determine the correct level of Chinese course to take.

*3 credits (3 lecture hours)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Foreign Language.*

**CHIN 102 – BEGINNING MANDARIN CHINESE II**

This course is a continuation of CHIN 101, with continuous concentration

on communicative approach of the Mandarin Chinese language. By exploring daily conversational topics, this course includes study of the Chinese phonetic system (Pinyin), character writing, sentence structure, and expanded knowledge of Chinese culture. Further acquisition of language skills in listening, speaking, reading, and writing is emphasized.

*Prerequisite: CHIN 101 at Morrisville with a C grade or better, 2-3 years of high school Chinese, or placement in CHIN 102.*

*3 credits (3 lecture hours).*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Foreign Language.*

**MANUFACTURING TECHNOLOGY****MFG 110 - DIMENSIONAL METROLOGY**

Utilization of the principles of the science of measurement to first give the necessary laboratory experience to show linear calibration to 10 millionths of an inch with various measurement instruments. Secondly to demonstrate the necessity of metrology in regards to national and international manufacturing and trade.

*2 credits (1 lecture hour, 3 laboratory hours), spring semester*

**MFG 206 - CNC MACHINING**

Students will be instructed about the capabilities and limitations of computer numerical control (CNC) 4-axis machining center and 2-axis turning center. Students will write programs using g-code for a FANUC controller and produce parts in the laboratory from their programs.

*Prerequisite: MECH 101*

*3 credits (2 lecture hours, 3 laboratory hours), fall semester*

**MFG 207 - QUALITY CONTROL**

A fundamental, yet comprehensive coverage of the basic principles and applications of quality control. Topics covered include: statistical process control (SPC), data collection and analysis, control charts for variables and attributes, acceptance sampling, reliability, total quality management (TQM) and ISO systems.

*Prerequisite: MATH 102*

*2 credits (1 lecture hour, 3 laboratory hours), spring semester*

**MFG 208 - COMPUTER-AIDED MANUFACTURING (CAM) - MASTERCAM**

Introduction to Computer-Aided Manufacturing (CAM) utilizing Mastercam Software and Computer Numerical Controlled (CNC) machinery. Students will generate 2D and 3D drawing files and use the software to program various 2 and 3 axis CNC machining toolpaths. These programs will then be used to machine projects on our 4-axis machining center

*Prerequisites: CAD 186 and MFG 206*

*2 credits (1 lecture hour, 3 laboratory hours), spring semester*

**MFG 221 - MANUFACTURING PROCESSES I**

Examination of materials and processes in the manufacturing environment - theoretically and in the laboratory.

*Prerequisites: MECH 101 and MECH 120*

*3 credit hours (2 lecture hours, 3 lab hours), fall semester*

**MFG 240 - DESIGN/MANUFACTURE CAPSTONE**

This course is a project-based culmination of design and manufacturing studies applied to a formal product design challenge. Students will work in teams to conceptualize, plan, define, prototype, optimize, and manufacture their solution to a real-world design problem. Emphasis is placed on creativity, communication and documentation skills, time management and individual responsibility for project success. A final project portfolio will include both written and graphical documentation of the product design process.

*Prerequisites: DRFT 252, MFG 221*

*3 credits (1 lecture hour, 4 laboratory hours), spring semester*

## MASSAGE THERAPY

### MAST 100 CPR FOR HEATHCARE PROVIDERS

This course introduces students to the skills and techniques necessary to provide the initial emergency care to sustain life support to victims of accidents and illness. Students will be eligible to become certified in CPR for the Healthcare Provider by satisfying the requirements established by the American Heart Association. This course is open to Massage Therapy students and Human Performance and Health Promotion students or by permission of the instructor.  
*1 credit (lecture), 5 weeks, fall and spring semester*

### MAST 101 - EASTERN ANATOMY AND PHYSIOLOGY

Focus is on the nature and distribution of energy throughout the body. This course introduces the philosophical principles of Eastern medicine as well as an in-depth study of the channel system and the distribution of energy and areas of influence. The course introduces the concepts of the organs and viscera and their functions related to energy development and utilization. The principles of energy and Taoist Cosmology will be discussed from ancient to modern viewpoints.

*Pre or Co-requisites: BIOL 150 and 150L; BIOL 135 and MAST 102;  
3 credits (3 lecture hours), fall semester*

### MAST 102 - WESTERN MASSAGE I

Presents western massage techniques including the history of massage, the fundamental principles, physiological effects, and precautions for use. The appropriate use of oils, equipment and draping techniques will be introduced. This course provides the knowledge base of western massage therapy theory and techniques.

*Pre or Co-requisites: BIOL 150 and 150L; BIOL 135 and MAST 101  
4 credits (3 lecture hours, 3 laboratory hours), fall semester*

### MAST 103 - WESTERN MASSAGE II

This course focuses on the further development of western massage techniques and the precautions for all practitioners. The student will learn more advanced hand manipulations, direction of pressure and pressure points as well as review western massage principles.

*Prerequisites: MAST 102, BIOL 150 and 150L (each with C or better required)  
Pre or Co-requisites: BIOL 151 and 151L; BIOL 136 and MAST 104  
2 credits (1 lecture hour, 3 laboratory hours) spring semester*

### MAST 104 - EASTERN MASSAGE

This course focuses on the development of understanding regarding the location of the Primary Meridians and the Extra Channels used in Eastern massage. Various eastern massage techniques will be presented as practical applications of theoretical knowledge. Use of acupoints will be thoroughly examined. Students will learn a variety of Eastern massage manipulations and exercises.

*Prerequisites: MAST 101, BIOL 150 and 150L (each with C or better required)  
Pre or Co-requisites: BIOL 151 and 151L; BIOL 136, MAST 103  
2 credits (1 lecture hour, 3 laboratory hours), spring semester*

### MAST 201 - WESTERN MEDICAL MASSAGE

Presents western massage techniques and precautions for its use. The student is introduced to acute and chronic health conditions appropriate to treat with Western massage. Situations requiring a referral to medical health care providers will be identified. Fifty hours are devoted to pathology.

*Prerequisites: MAST 103, BIOL 151 and 151L (each with C or better required)  
Pre or Co-requisites: MAST 202; BIOL 137; MAST 203;  
4 credits (2 lecture hours, 6 laboratory hours) fall semester*

### MAST 202 - EASTERN MEDICAL MASSAGE

This course presents applications of Eastern massage techniques. Eastern massage theory and practice will be applied to chronic and acute health conditions. Students will learn to utilize the Primary Meridians and the Eight Extra Channels to facilitate therapeutic client response. Students will develop a cohesive strategy for client evaluation using Five Element Theory, Eight Principles and four evaluations as well as procedures to develop effective treatment strategies. Students will learn to identify situations that require referral. Fifty hours will focus on pathology.

*Prerequisites: MAST 104, BIOL 151 and 151L (each with C or better required)*

*Pre or Co-requisites: MAST 201 and 203; BIOL 137;*

*4 credits (2 lecture hours, 6 laboratory hours) fall semester*

### MAST 203 - PROFESSIONAL ISSUES

Topic areas include regulation of the profession and code of ethics and issues of boundaries in relation to body work, interpersonal communications and therapeutic relationships. Introduces students to the Rules of the Board of Regents on Unprofessional Conduct, Section 6509 of Title VIII, and professional ethics and standards

*Prerequisites: MAST 104, BIOL 151 and 151L (each with C or better required)*

*Pre or Co-requisites: MAST 201, MAST 202, BIOL 137,*

*1 credit (2 lecture hours), first half of fall semester*

### MAST 204 - MASSAGE CLINICAL EXPERIENCE

This course provides the student with the opportunity to apply the knowledge and techniques acquired in all previous massage therapy courses and to become more proficient with client assessment and treatments. Students will become familiar with reading a prescription, developing a plan of treatment and charting methods. This course is offered in a simulated office situation and students must apply massage therapy techniques to another individual for 150 hours under the on-site supervision of a licensed massage therapist. Students will be evaluated applying therapy techniques to a variety of clients using pre-established evaluation criteria.

*Prerequisites: MAST 201, MAST 202 and BIOL 137 (each with C or better required)*

*Pre or Co-requisites: MAST 100, MAST 205, MAST 206, COMP 110 or COMM 111  
5 credits (150 laboratory hours), spring semester*

### MAST 205 - SENIOR SEMINAR

This course is designed to assist the student's transition into professional practice. The course examines independent contractor/self-employment and paid employee opportunities. Professional standards of practice are reviewed with a focus on legal issues and trends. Aspects of establishing and maintaining an individual practice will be examined including small business planning, business finances, bookkeeping, and marketing/promotions.

*Prerequisites: MAST 201, MAST 202 and MAST 203 (each with C or better required)*

*Pre or Co-requisites: MAST 204, MAST 100, MAST 206, COMP 110 or COMM 111  
3 credits (3 lecture hours), spring semester*

### MAST 206 - PROFESSIONAL PRACTICE ISSUES

This course assists the development of professional practice through the discussion of case studies and/or actual client health needs presented in the massage therapy clinic setting. The seminar format allows for discussion of client situations, pathologies and practice issues. This course accompanies MAST 204 which is the clinical component for the Massage Therapy degree.

*Pre or Co-requisite: MAST 204 and MAST 205*

*2 credits (2 lecture hours), spring semester*

## MATHEMATICS

### CHOOSING YOUR FIRST MATHEMATICS COURSE

It is important that you begin your mathematics sequence at the appropriate level for which you are qualified. You need to know your initial mathematics placement and exit requirement for your program. If you do not know your initial placement, contact the chair of the Department of Mathematical Sciences. Following are the different options if you have been placed at, below, or above your program's mathematics exit requirement.

If you have been placed at your program's exit requirement, then take that mathematics course as specified in the college catalog.

If you have been placed below your program's exit requirement, then take that mathematics course and then progress through the math sequence to the mathematics course listed as the exit requirement.

If you have been placed above your program's exit requirement, then work with your academic advisor to find an appropriate course for your major and your ability.

### SUNY GENERAL EDUCATION

Students who successfully complete any course with the MATH subject code

will fulfill the SUNY General Education requirement for Mathematics.

#### Mathematics Pathways

Quantitative Reasoning/Statistical Reasoning

Algebra

Calculus

SKLS 091

SKLS 091

SKLS 091

MATH 147

MAGN 107

MAGN 101 or MAGN 107

MAGN 101

MATH 151 OR MATH 161

MATH 127

MATH 123

MATH 102

MATH 152 OR MATH 162

MATH 103

MATH 261

MATH 147

MATH 262

The above information does not include mathematics electives. A student must pass a course with a C or better to meet the pre-requisite for the next course in the sequence. Any student who passes a math course with a C or better may not take a course lower in the sequence to receive mathematics credit. If a student elects to take a mathematics course as Pass/Not Pass, a grade of pass does not imply that a student is able to progress in the sequence. In order to progress in the sequence, the numeric grade will be used to determine if the student has met the prerequisite.

#### MATHEMATICS COURSE ELECTIVES

MATH 141 Statistics

Prerequisite: MATH 102 (C or better) or placement into MATH 103 or higher

MATH 145 Discrete Mathematics

Prerequisite: MATH 102 (C or better) or placement into MATH 103 or higher

MATH 149 Elementary Linear Algebra

Prerequisite: MATH 103 (C or better) or placement into MATH 147 or higher

#### Transfer/Placement Information

Transfer credit: College mathematics courses taken at other institutions are evaluated and will be awarded transfer credit when appropriate.

#### How students are initially placed in a mathematics course

All incoming students are required to take a mandatory placement exam.\* In addition to the result on the placement exam, other factors that may be considered include: high school mathematics grades, examinations (regents, state, SAT, or ACT), the number of attempts necessary to successfully complete high school mathematics courses, and the time elapsed since a student's last mathematics course.

\*In some cases, college mathematics courses taken at other institutions and successfully transferred for credit may be considered in lieu of the placement exam.

#### How to find a student's mathematics placement/other questions

If a student's mathematics placement is needed, or if students or advisors have any other questions about mathematics placement, please contact the chair of the Department of Mathematical Sciences.

#### Changes to Placement

If a student feels their math placement is not correct, they may schedule a meeting with the mathematics department chair during the first week of classes to have their placement reevaluated.

#### SKLS 091 - PRE-ALGEBRA

(see Skills Courses)

#### MAGN 101 - ELEMENTARY ALGEBRA

Topics include: Review of basic arithmetic skills. Properties of the real number system, terminology, and vocabulary; Solving linear equations and inequalities in one variable; Literal equations and applications of algebra; Integer exponents; Operations on Polynomials; Factoring; Operations on Rational expressions; Graphing linear equations. (TI-30 required)

*Prerequisite: SKLS 091 (C or better required) or equivalent*

*3 credits\* (3 lecture hours), fall or spring semester*

*\*These credits do NOT count toward the math/science requirements of the A.S., A.A.S., or A.A. degree.*

#### MAGN 106 – REAL-WORLD MATHEMATICS

This course focuses on math for everyday life. Topics include fluency with numbers, proportional reasoning, data interpretation, algebraic reasoning, modeling, and communicating quantitative information. Arithmetic skills (fractions, decimals, proportions, and percentages) are integrated throughout the course. Mathematical concepts are investigated through group problems and class discussions based on real-life contexts of citizenship, personal finances, and medical literacy. This course prepares students to take a college-level non-STEM path in mathematics, such as MATH 127 or MATH 123. Students may not take MAGN 106 if credit has been received from SKLS 091 or MAGN 107. Prerequisite: None (Placement into MAGN 106.) Texas-Instruments (TI-30XII) calculator required. This course fulfills 3 credits of the Liberal Arts and Sciences requirement.

*Prerequisite: Placement into MAGN 106.*

*6 credits (3 imputed, 3 general), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement*

#### MAGN 107 – MATHEMATICAL LITERACY

This course focuses on mathematics for everyday life. It integrates fluency with numbers, proportional reasoning, data interpretation, algebraic reasoning, modeling, and communicating quantitative information. Mathematical concepts are investigated through group problems and class discussions based on real-life contexts of citizenship, personal finances, medical literacy, healthcare fields, and the environment. (TI-30SII calculator required). Students may not take MAGN 107 if credit has been received from MAGN 106.

*Prerequisite: SKLS 091 (C or better) or equivalent.*

*3 credits (3 lecture hours), fall or spring semester.*

*This course satisfies the Liberal Arts and Sciences requirement.*

#### MATH 102-INTERMEDIATE ALGEBRA WITH TRIGONOMETRY

Topics include: Exponents, roots, and radicals; Functions and their graphs; Solving and graphing quadratic equations and applications; Solving, radical, equations; Equations in quadratic form; General angle trigonometry; Solving systems of linear equations in two or three variables and applications. (TI-83 plus or TI-84 plus required, TI-Nspire or similar calculator is not allowed.)

*Prerequisite: MAGN 101 (C or better required) or MAGN 107 (B or better required) or equivalent*

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics*

#### MATH 103 - COLLEGE ALGEBRA WITH TRIGONOMETRY

Topics include: Complex fractions; Evaluation and combinations of functions, inverse functions, exponential, and logarithmic functions, including applications; General angle trigonometry in radian measure; Graphs of basic trigonometric functions; Transformations of sine and cosine functions; Trigonometric identities and equations; Law of sines and law of cosines, including applications. (TI-83 plus or TI-84 plus required, TI-Nspire or similar calculator is not allowed.)

*Prerequisite: MATH 102 (C or better required) or equivalent*

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics*

#### MATH 123 – ELEMENTARY STATISTICS

Study design and Sampling methods; Graphical representation of data; Descriptive statistics; Normal distribution; Hypothesis testing; Confidence intervals; Nonparametric techniques; t-tests; Correlation and regression.



Chi-Square Applications in the healthcare and life science professions will be emphasized. Excel will be used for calculations and analysis. Students may not take MATH 123 if credit has been received for MATH 141, or equivalent, without permission from instructor.

*Prerequisites:* MAGN 101 (C or better) or MAGN 107 (C or better) or equivalent, or placement into MATH 102 or higher

3 credits (hybrid or lecture format)

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

### MATH 127 – MATHEMATICAL REASONING

This course will explore various applications of mathematics in the social, finance, health, and environmental fields with a focus of developing informational, technological, logical, and visual reasoning skills. Topics from numeracy, probability and statistics, finance, mathematical modeling with linear, statistical, and exponential functions, and other areas of mathematics will be covered. (TI-30XII calculator required.)

*Prerequisite:* MAGN 101 (C or better required), MAGN 106 (C or better required), or MAGN 107 (C or better required) or placement into MATH 127.

3 credits, (3 lecture hours) fall or spring semester.

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics.

### MATH 141 - STATISTICS

Topics include: Graphical representations, Measures of central tendency and dispersion; Probability; Normal distribution; Central limit theorem; Hypothesis testing; Confidence intervals; Regression-correlation. (TI-83 plus or TI-84 plus required, TI-Nspire or similar calculator is not allowed.) Students may not take MATH 141 if credit has been received from MATH 123.

*Prerequisite:* MATH 102 (C or better required) or equivalent, or placement into MATH 103 or higher

3 credits (3 lecture hours), fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

### MATH 145 - DISCRETE MATHEMATICS

Primarily for students in Computer Science and Computer Information Systems curricula or others with permission. Topics include: Logic; Set theory; Introduction to combinatorics; Relations and functions; Introduction to graph theory. (TI-83 plus or TI-84 plus required, TI-Nspire or similar calculator is not allowed.)

*Prerequisite:* MATH 102 (C or better required) or equivalent, or placement into MATH 103 or higher

3 credits (3 lecture hours), fall semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

### MATH 147 - SELECTED TOPICS IN PRECALCULUS

Topics include: Functions and their inverse; Polynomial functions; Operations on complex numbers; Rational functions and their graphs; Trigonometric identities; Inverse trigonometric functions; Trigonometric equations. Emphasis on calculator solutions. (TI-83 plus or TI-84 plus required, TI-Nspire or similar calculator is not allowed.)

*Prerequisite:* MATH 103 (C or better required) or equivalent

3 credits (3 lecture hours), fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

### MATH 149 - ELEMENTARY LINEAR ALGEBRA

Basic elements of linear algebra, an area of mathematics with applications in a wide variety of fields. Topics include: Systems of linear equations including matrix solution using Gauss-Jordan elimination; Matrix operations; Inverse; Computations via calculator; Determinants; The vector space, linear combinations and independence, span, basis; Dot and cross product; Eigenvalues and eigenvectors. (TI-83 plus or TI-84 plus required, TI-Nspire or similar calculator is not allowed.)

*Prerequisite:* MATH 103 (C or better required) or equivalent, or placement into math 147 or higher

3 credits (3 lecture hours), spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

### MATH 151 - General CALCULUS A

Topics include: Introduction to limits and continuity; Derivatives of algebraic functions: definition and notation, differentiation rules, implicit differentiation; Applications of the derivative: slope, velocity and acceleration, rate of change, related rates, curve sketching, and optimization; Integration: notation and terminology, definite and in-definite integrals; The Fundamental Theorem of Calculus; Applications Integration by substitution. (TI-83 plus or TI-84 plus required, TI-Nspire or similar calculator is not allowed.)

*Prerequisite:* MATH 147 (C or better required) or equivalent

3 credits (3 lecture hours), fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

### MATH 152 - GENERAL CALCULUS B

Topics include: Differentiation and integration of logarithmic, exponential and inverse trigonometric functions; Applications including growth and decay, finding areas, volumes, centroids, fluid pressure, work, and arc length; Techniques of integration; Indeterminate forms with L'Hopital's Rule; Improper integrals. (TI-83 plus or TI-84 plus required, TI-Nspire or similar calculator is not allowed.)

*Prerequisite:* MATH 151 (C or better required) or equivalent

3 credits (3 lecture hours), fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

### MATH 153 - BUSINESS CALCULUS

This course is an introduction to differential and integral calculus with particular emphasis on applications in business and related areas. Topics include: Functions (polynomial, rational, exponential and logarithmic); Continuity; Limits; Derivatives and differentiation techniques; Marginal analysis; Curve sketching techniques; Optimization; Interest, Integrals and integration techniques; Fundamental Theorem of Calculus; Area between curves; Future value of a continuous income stream. (TI-83 plus or TI-84 plus required, TI-Nspire or similar calculator is not allowed.)

*Prerequisite:* MATH 147 (C or better required) or equivalent, or placement into math 151 or higher (If credit has been received for MATH 151, or equivalent, then permission must be obtained by instructor to register for MATH 153.)

3 credits (3 lecture hours), fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

### MATH 161 - CALCULUS I

Topics include: Review of algebra and analytic geometry; Concepts of limit and derivative of a function; Differentiation and integration of functions including trigonometric, exponential, logarithmic functions and inverse trigonometric functions; Applications to engineering. (TI-83 plus or TI-84 plus required.)

*Prerequisite:* Math 147 (C or better required) or initial math placement of MATH 161.

4 credits (4 lecture hours), fall semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

### MATH 162 - CALCULUS II

Topics include: Applications of integration and integration techniques; Infinite series; Parametric equations and polar coordinates; Applications to engineering. (TI-83 plus or TI-84 plus required.)

*Prerequisite:* MATH 161 (C or better required)

4 credits (4 lecture hours), spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

### MATH 261 - CALCULUS III

Topics include: Vectors in the plane and in three dimensional space; Vector functions; Functions of several variables; Partial derivatives and multiple integration; Vector calculus; Applications to engineering. (TI-83 plus or TI-84 plus required.)

*Prerequisite:* MATH 162 (C or better required)

4 credits (4 lecture hours), fall semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

### MATH 262 - DIFFERENTIAL EQUATIONS

Topics include: Ordinary differential equations and their solutions; Classical solutions of linear differential equations; Solutions by use of series and by Laplace transforms; Matrix procedures with solutions to linear systems of differential equations using eigenvalues; Introduction to partial differential equations; Applications in the field of chemistry, physics and engineering. (TI-83 plus or TI-84 plus required.)

Prerequisite: MATH 261 (C or better required)

4 credits (4 lecture hours), spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

## MECHANICAL ENGINEERING TECHNOLOGY

### MECH 101 - MACHINE TOOLS

Basic principles, capabilities and limitations of machine tools, theory of single and multiple point cutting tools and metal removal. Machine operations and setup, measuring devices, safety and use of hand tools.

Co-requisite: MAGN 101 and MFG 110 or permission of instructor

3 credits (2 lecture hours, 3 laboratory hours), spring semester

### MECH 103 - MACHINE SHOP PRACTICES

Types of tools used in machine shops, with hands-on experience. Machining of several simple small parts, with methods of machining being more important than accuracy, surface finish, etc.

1 credit (1 lecture hour, 3 laboratory hours), 8 weeks, fall semester

### MECH 120 - ENGINEERING MATERIALS

A study of material properties, limitations, processing, testing, and specification. Course includes plastics, metals, ceramics, composites, cements and other important engineering materials.

3 credits (2 lecture hours, 3 laboratory hours), fall semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science

### MECH 211 - ANALYTICAL MECHANICS (STATICS)

Development of the various analytical methods to determine force acting on a particle of rigid body at rest, in a plane or in space. Determination of forces in transmission lines, cables, trusses, machine components and structures. Forces introduced as a result of friction and location of first and second moments. Spreadsheet of software applications.

Prerequisite: PHYS 107 (C or better required)

Co-requisite: MATH 103

3 credits (2 lecture hours, 1 recitation hour), fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science

### MECH 212 - MECHANICAL DESIGN

Study of translation and rotation plane motion of machine elements. Graphical kinematic analysis including absolute and relative velocities, with CAD and spreadsheet applications. Mechanical component analysis and selection to include cams, gears, chain drives, and belt drives.

Prerequisites: CAD 186, MECH 211

4 credits (3 lecture hours, 2 laboratory hours), spring semester

### MECH 213 - STRENGTH OF MATERIALS

Physical properties of engineering materials including relationships between stress and strain, beam design, riveted joints, torsion of shafts, column buckling and the impact loading of mechanical elements. Laboratories in tensile, shear and bending tests as well as the use of electrical strain gages.

Prerequisite: MECH 211 (C or better required)

4 credits (3 lecture hours, 2 laboratory hours), fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science

### MECH 233 - FLUID POWER AND CONTROL

A study of incompressible power systems. Including topics in power transmission, controls, circuit design and efficiency, applications, as well as electrohydraulic control of discrete components and programmable systems.

Prerequisites: MATH 103, CAD 184 and PHYS 107

4 credits (3 lecture hours, 3 laboratory hours), spring semester

## MUSIC

### MUSI 101 - INTRODUCTION TO MUSIC AND ART

An overview of the stylistic and cultural elements of the great epochs of western civilization as expressed through its art and music.

3 credits\* (3 lecture hours), fall semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.

### MUSI 102 - HISTORY OF JAZZ

A study of styles, backgrounds, playing and techniques in the different eras of jazz history from the 1890s to the present.

3 credits\* (3 lecture hours), spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts and the SUNY General Education Requirement for Humanities.

### MUSI 105 EXPERIENCING MUSIC

An introduction to the appreciation of music as an art form, this course assumes no prior experience with the subject. Students will learn basic vocabulary and notation of music, along with concepts of pitch, melody, rhythm, musical forms, genres and instrumentation. They will develop basic knowledge, supported by listening, discussion and participation. History and culture will be related to the various musical attributes studied. Live music will be incorporated as much as possible into the musical experience.

3 credits\* (3 lecture hours), fall or spring

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.

### MUSI 150 - ENSEMBLE

Credit for successful participation in pep band, jazz lab, jazz singers or concert band. Tryout may be required. Courses below are for subsequent semesters.

1 credit, fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts. Note: At least three credits from the following courses will satisfy the SUNY General Education re-requirement for "The Arts."

### MUSI 155 - ENSEMBLE

1 credit, fall or spring semester

### MUSI 160 - ENSEMBLE

1 credit, fall or spring semester

### MUSI 165 - ENSEMBLE

1 credit, fall or spring semester

## NATURAL RESOURCES CONSERVATION

### NATR 100 - INTRODUCTION TO FORESTRY AND NATURAL RESOURCES

Field identification of important forest trees and shrubs, their growth characteristics and uses are introduced. Basic instruction is provided in forest management problems, forest measurement, utilization, forest ecology, silviculture, forest wetlands, natural resources recreation, wildlife conservation,

urban forestry and natural resource organizations. Several field forestry exercises are used to provide students with practical experience.

*3 credits (2 lecture hours, 3 laboratory hours), fall semester*

### **NATR 101 - GENERAL ECOLOGY**

Interrelationships among living organisms and their environment. Examines the nature of diversity, niche dimensions, species' roles and habitats, organism adaptations, life histories, population dynamics, symbiotic relationships, biome and landscape ecology, and the impact of human activities, and extractive economies.

*3 credits (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **NATR 103 - NATURAL RESOURCE EQUIPMENT OPERATION**

Operation, safety and preventative maintenance of natural resource equipment including chain saws, log skidder, log loader, dump truck, bulldozer, fork lift, skid steer loader, backhoe, and flatbed trailer is practiced. Included in this course is the instruction and hands-on operation of chain saws, which with additional training in adult first aid/CPR and environmental concerns will qualify students for New York State Logger certification.

*2 credits (1 lecture hour, 2 laboratory hours), fall or spring semester*

### **NATR 110 - NATURAL RESOURCES MEASUREMENTS**

Measurements of forest and wildlife resources, statistical analysis of data and presentation of results. Includes mapping, timber inventories, wildlife population surveys, and report writing.

*Pre-requisite/ Co-requisite: Completion of or testing out of MAGN 101 or by permission from the instructor.*

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

### **NATR 115 - FOREST ECOLOGY**

Physical and biological factors that affect the forest community are discussed. Emphasis is placed on forest ecosystem dynamics and establishing a scientific basis for the cultural treatment of forest stands. Forest community interactions are discussed in detail. Specific types of old growth, wetland and eastern mesophytic forest communities are analyzed.

*Prerequisite: NATR 100 or permission of instructor*

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **NATR 120 - INTRODUCTION TO RECREATION AREA MANAGEMENT**

Basic principles of outdoor recreation and use of leisure time as applied to the development and management of park and recreation areas. Observations and analyses of local recreation areas, trail development and improvement activities.

*3 credits (2 lecture hours, 3 laboratory hours), fall semester*

### **NATR 130 - NORTH AMERICAN WATERFOWL**

Identification, life histories, production areas, nuisance issues, and management of North American ducks, geese, swans and shorebirds. Course includes extensive field observation and maintaining field journals. This course is a certified NYS DEC Waterfowl ID Course and students may opt to take the exam to receive the certificate required to get an access permit for select National Wildlife Refuges and state lands open to waterfowl hunting.

*Pre-requisite/ Co-requisite: NATR 101 or by permission from the instructor.*

*1 credit (1 lecture hour) spring semester.*

### **NATR 140 - GEOLOGY**

Nature and origin of minerals and rocks, and the development of land formations with special emphasis on plate tectonics and associated phenomena. Agents of erosion with resulting land formations.

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **NATR 142 - PLANE SURVEYING**

The principles of plane surveying are explored. Investigation is made of

elementary field techniques and office procedures with emphasis on agricultural and conservation applications. Familiarization with various modern surveying instruments, analysis of error and survey computation is emphasized. Field work includes taping, profile and differential leveling, traversing and topographic mapping.

*Prerequisite: MAGN 101 or equivalent*

*3 credits (2 lecture hours, 3 laboratory hours), fall semester*

### **NATR 144 - SEMINAR IN ENVIRONMENTAL RESOURCES**

Designed to inform the freshman Environmental Science student with the various options of study within the department and the career opportunities for each. Other presentations will deal with such topics as enhancing your classroom success, the pre-registration process, ethics, placement, letters of applications, resumes, interviewing techniques and meeting professionals from various environmental fields. Required for all freshman in the Environmental Sciences majors.

*1 credit (1 hour recitation), fall semester*

### **NATR 150 - AQUACULTURE**

An introduction to the husbandry of aquatic organisms. Course places emphasis on rearing unit theory and management, stock inventory, growth projections, and water quality management. Laboratory exercises feature visits to state and commercial hatcheries, and hands-on activities at the Morrisville State College Aquaculture Center.

*3 credits (2 lecture hours, 4 laboratory hours), fall semester*

### **NATR 152 - FISH REPRODUCTION**

This course explores fish reproductive strategies and their management implications; topics include: modes and requirements of reproduction, embryology, induced spawning techniques, genetics, hybridization and genetic engineering. Laboratories include manual spawning of salmon and trout, and egg inventory.

*Prerequisites: NATR 150, NATR 252*

*2 credits (1 lecture hour, 2 laboratory hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **NATR 156 - AQUACULTURE PRACTICUM I**

Hands-on experience in aquaculture facility management with emphasis on daily routine and records keeping. Care of cultured fish and plants, facility maintenance, including fish stock inventory, water quality management, and shipping and transporting fish.

*Corequisite: NATR 150 or permission of instructor*

*1 credit fall or spring semester*

### **NATR 158 - FISH NUTRITION**

Introduction to the nutritional requirements of fish. Emphasis is placed on natural and artificial feeding of fishes, digestive physiology and anatomy, nutritional requirements and deficiencies, and feed formulation. Laboratories include hands-on study of fish digestive anatomy, and the calculation of feed rations.

*Prerequisite: MAGN 101, NATR 150*

*Co-requisite: NATR 252*

*2 credits (1 lecture hour, 3 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### **NATR 160 - PRINCIPLES OF ARBORICULTURE**

Introduction to the art, science and technology of woody plant health care. Emphasis on the care of landscape trees and shrubs in residential, campus and municipal settings. Major topics include tree mechanics, pruning and training trees; cabling; risk tree management; site evaluation and tree planting and establishment.

*Co-requisite: NATR 161*

*2 credits (2 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

**NATR 161 - PRACTICES OF ARBORICULTURE**

Practical education and experience in the establishment and care of trees and shrubs in the landscape. Emphasis on individual and small groups of plants in residential, campus and municipal settings. Students work in teams under close supervision. Major activities include pruning, climbing with rope and saddle, and risk tree evaluation.

*Co-requisite: NATR 160*

*1 credit (3 laboratory hours), spring semester*

**NATR 210 - DENDROLOGY**

Field study, identification, taxonomy and natural history of more than 100 important forest trees and shrubs of North America.

*3 credits (2 lecture hours, 3 laboratory hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

**NATR 211 - FOREST PROTECTION**

Overall view of the agents damaging the forest, meteorology, insects, disease causing organisms, IPM, fire behavior and control. Development of control measures.

*Prerequisite: NATR 101 or NATR 155 or permission of instructor*

*3 credits (3 lecture hours), spring semester*

**NATR 213 - BASICS OF GEOSPATIAL TECHNOLOGY**

This course involves a basic introduction to geospatial technology with focus on the practical applications of ge-ographic information (GIS) and global positioning systems (GPS) in mapping natural and renewable resources. The basic principles of GIS and GPS are discussed with emphasis on computer-assisted mapping. Focus will be on running ArcGIS and its application in a number of assigned class projects. Students are also expected to understand how to conduct surveys using both standard and real-time differential GPS as well as generate thematic maps. GPS measurements and digital orthoimages are utilized in creating geographically-referenced, spatial data which forms the basis for geospatial analysis, the primary focus of the newly proposed NATR 216.

*Prerequisite: NATR 142 or AGEN 151, or permission of instructor*

*1 credit (1 lecture hour, 2 laboratory hours), 8-week course, spring semester*

**NATR 215 - PRACTICES OF SILVICULTURE**

Application is made of Silvicultural techniques for tending the forest stand in order to meet the objectives of the forest owner utilizing the principles of forest ecology. Emphasis is on understanding the forest ecosystem and the impact of cultural practices such as thinning, harvest cutting, timber stand improvement and stand regeneration.

*Prerequisite: NATR 110 and NATR 115*

*Co-requisite: NATR 213*

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

**NATR 216 - BASICS OF GEOSPATIAL ANALYSIS**

This course involves a basic introduction to geospatial analysis with emphasis on the practical applications of ge-ographic information and global positioning systems. The basic principles of geospatial analysis and remote sensing are discussed with focus on some general applications that pertain to natural and/or renewable resource system(s). Evaluations of various situations are accomplished through a number of general class projects and one final case study project to be assigned by the instructor based on each student's area of interest. Emphasis will be on running ArcGIS and its application to the assigned class projects. Students are also expected to understand how to navigate using both standard and real-time differential GPS. GPS measurements and digital orthoimages are especially useful in creating geographically-referenced, spatial data which are required for performing geospatial analysis.

*Co-requisite: NATR 213*

*1 credit (1 lecture hour, 2 laboratory hours), 8-week course, spring semester*

**NATR 221 - INVASIVE SPECIES MANAGEMENT**

Biology, impact and management of invasive species found in or threatening New York State. Terrestrial and aquatic plants, animals (including insects), and diseases are discussed. Classroom focus is on pathways, factors leading to invasion, impact, management and control strategies, and restoration options. Laboratories will involve hands-on surveying and management efforts.

*Pre-requisite: NATR 101 or similar, or by permission from the instructor.*

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

**NATR 232 - WILDLIFE ECOLOGY AND MANAGEMENT**

A study of the art and science of wildlife management, including topics pertinent to understanding wildlife populations, their habitats, their ecology and management. Laboratories emphasize identification and life histories of principle North American mammals and game birds, specimen preparation, collection techniques, cover mapping, and habitat manipulation.

*Prerequisites: NATR 101 or permission of the instructor*

*Co-requisite: NATR 213*

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

**NATR 246 - INTERNSHIP IN NATURAL RESOURCES**

This course involves students working in an approved job in the natural resources industry, usually during the summer session. A journal, supervisor evaluation and comprehensive written report are required and upon completion of the internship.

*Prerequisite: Completion of one semester in Natural Resources and permission of instructor*

*4 credits (12 weeks, 480 hours minimum), fall semester*

**NATR 250 - AQUATIC ECOLOGY**

A study of the physical, chemical and biological interactions of freshwater environments throughout Central New York. Includes ecology, origins, communities and populations of lakes, streams, wetlands, and estuaries, and aquatic invasive species. Laboratories include identification of aquatic plants, invertebrates, reptiles and amphibians, habitat assessment, wetland delineation, and the use of bioindicators. Field studies are conducted on local streams, lakes and wetlands.

*Prerequisite: NATR 101*

*3 credits (2 lecture hours, 3 laboratory hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

**NATR 252 - FISH ECOLOGY AND MANAGEMENT**

A study of the morphology, biology, ecology, behavior, and taxonomy of fishes. Strong emphasis is placed on the identification of New York's common freshwater and estuarine fish species. Other topics include systematics, reproductive ecology, population dynamics, fisheries management, and the application of seines, trap nets, gill nets, and electroshocking fishing gear.

*Prerequisite/corequisite: NATR 101 or permission of the instructor*

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

**NATR 254 - FISH HEALTH MANAGEMENT**

Capstone course in the Aquaculture series, dealing with the development and maintenance of hygienic culture facilities. The course progresses from disease and diagnostic theory, through pathogenic and parasitic agents, to chemical and cultural means of disease prevention and eradication. Laboratory exercises include necroptic and microbiologic techniques, pathogen and parasite identification, and chemotherapeutic treatments.

*Prerequisites: NATR 150 and NATR 252, or permission of instructor*

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

**NATR 256 - AQUACULTURE PRACTICUM II**

A continuation of the Aquaculture Practicum series, addressing advanced methods in aquaculture, including fish handling, incubation and early-rearing of fish stocks, feed ration calculations, grow out projections, and harvesting and shipping of fish.

*Prerequisite: NATR 156, MAGN 101*

*Co-requisite: NATR 158*

*1 credit, fall or spring semester*



**NATR 257 - AQUACULTURE PRACTICUM III**

In this continuation of the Aquaculture Practicum series, the student assumes the role of a fish hatchery crew supervisor. In supervising the daily routine of work crews, the student develops mentoring and leadership skills. Additional competency is developed in grow-out, harvesting, fish sales, and delivery.

*Prerequisite:* NATR 256

*1 credit, fall or spring semester*

**NATR 258 - AQUACULTURE PRACTICUM IV**

Final course in the Aquaculture Practicum series. Students will continue to develop and apply mentoring and leadership skills in the management of the Morrisville State College Aquaculture Center. AP IV students will plan and implement work schedules of AP I-III students, conduct performance evaluations, determine feed orders and supply budgets, and develop long-range strategic plans for the AQ Center.

*Prerequisite:* NATR 257

*1 credit, fall or spring*

**NATR 261 – ADVANCED PRACTICES OF ARBORICULTURE**

This course will include advanced arboriculture knowledge and skills associated with hazard tree identification, tree pruning, climbing with a rope and saddle, and use of tree pruning equipment. Students will additionally gain leadership skills by mentoring NATR 161 students by acting as crew leaders for projects, assisting them with skill development, and demonstrating arboriculture skills.

*Prerequisite:* B or higher in NATR 160 and NATR 161 or with instructor's permission.

*1 credit (2 laboratory hours), spring semester*

**NATR 280 - HERPETOLOGY**

Herpetology is a course designed to investigate the thermal physiology, taxonomy, distribution and natural history of reptiles and amphibians. Emphasis is placed on local forms. Techniques of field identification, collection and preservation are covered in the laboratory component.

*Prerequisite:* Grade of 'C' or better in BIOL 120, or General Ecology NATR 101.

*3 credits (2 lecture hours, 4 laboratory hours) spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science*

**NATR 288 - RESEARCH IN AQUATIC SCIENCE I**

This course provides the ground work for developing and initiating a research project in the aquatic sciences. Students will progress through the steps of conceiving and conducting background research, formulating research objectives, developing a research methodology, and initiating data collection. The efforts of this course will culminate in NATR 289 Research in Aquatic Science II.

*Prerequisites:* Aquaculture and Aquatic Science major AND permission of instructor

*1 credit (approximately 4 hours/week independent research, 60 hours total), fall or spring semester*

**NATR 289 - RESEARCH IN AQUATIC SCIENCE II**

This course provides the continuation of the research project initiated in research in aquatic science I. Students will progress through the steps of data collection and analysis, data description and summarization, synthesis of conclusion and presentation of results. The course will culminate in an oral, conference-type research presentation.

*Prerequisite:* Research in Aquatic Science I and permission of the instructor

*1 credit (approximately 4 hours/week independent research, 60 hours total), fall or spring semester*

**NURSING****NURS 100 - HOLISTIC HEALTH**

This course explores the many facets of holistic health as it pertains to ourselves. Topics to be covered include body and mind connection, stress management, exercise, nutrition, meditation, visualization and global effects on health. Open to all majors.

*No prerequisite required.*

*3 credits (3 hours per week of lecture for 15 weeks)*

**NURS 101- SKILLS FOR SUCCESS IN NURSING**

This course will address effective study skills focusing on time management. Other topics include test taking strategies and study habits for nursing students, including the use of library resources and the application of technology. The demonstration of proper use of math concepts as applied to drug calculations specifically use in the health care profession will also be required.

This course is open to students enrolled in nursing.

*1 credit hour (2 lecture hours per week for 8 weeks), fall/spring semester*

**NURS 105 - FUNDAMENTALS OF NURSING 1A**

This course provides the theoretical foundation for nursing education and practice including the nursing process with emphasis on the assessment phase. Theory of therapeutic communication techniques and basic human needs across the life span are correlated to general knowledge of the biologic sciences and humanities. Standards for professional nursing practice are defined. The concept of critical thinking as it applies to health care is introduced. Students learn nursing procedures in a campus laboratory setting utilizing medical technology to complete accurate nursing assessment.

*Pre or Co-Requisites:* BIOL 150, COMP101, PSYC 101

*3 credits (4 lecture hours, 5 college laboratory hours per week for the first 7 weeks of the fall or spring semester)*

**NURS 110 - FUNDAMENTALS OF NURSING 1B**

This course continues with the theoretical foundation of nursing education and nursing practice with a focus on assessment and implementation of basic nursing care. Students learn to practice therapeutic communication skills to obtain assessment data and implement effective basic nursing care. Critical thinking skills are facilitated by experiences in the clinical agency which enable the student to correlate theoretical knowledge and campus laboratory skills to nursing practice. Particular attention is given to the care of the geriatric individual. Students use medical technology to assess and implement care as well as recognize the role of technology in the diagnosis of health care problems.

*Prerequisite:* NURS105 (with C+ grade or better)

*4 credits (4 lecture hours, 5 clinical laboratory hours, and 2 college laboratory per week for weeks 8-15 of the fall or spring semester)*

**NURS 150 - NURSING CARE OF THE INDIVIDUAL WITH COMMON HEALTH PROBLEMS**

This course provides the theoretical foundation for nursing knowledge that supports care of individuals with common health and psychiatric problems across the life span. Students will develop cognitive, affective and psychomotor skills in the campus laboratory setting and implement these skills in acute health care settings. Critical thinking skills which are applied to all phases of the nursing process are developed. Students learn to incorporate the general knowledge of growth and development, cultural and psychosocial needs into the care of individuals. Students utilize professional standards of practice while participating as a member of the health care team by practicing personal professional accountability. Communication skills utilized to effectively report and document nursing care. Technology is utilized to research and access nursing and medical information to deliver health care to individuals and families.

*Prerequisites:* NURS110 (with a C+ grade or better), Pre-or Co- Requisites BIOL 151 and PSYC 241

*9 credits (4 lecture hours, 9 clinical laboratory hours, 1 college laboratory hour per week), fall or spring semester*

**NURS 152 - PHARMACOLOGY I**

This first course in the series presents concepts of the study of drugs used for the prevention, treatment, and diagnosis of disease and symptoms associated with common health alterations. Principles of action, uses, and side effects are discussed to facilitate the student's learning in the clinical environment. Information is presented by integrating pharmacology into the nursing process. Specific drug information is discussed in relation to assessment, nursing diagnosis, client monitoring, and interventions of safe and effective drug therapy. The concepts presented will focus on the common health problems and psychiatric health problems encountered across the lifespan. Specific nursing responsibilities related to drug administration, including real world dosage calculations across the life span, are emphasized. Some specific topics discussed in this course will include the pharmacological treatment used for psychiatric disorders, cancer, infection, common respiratory, gastrointestinal

and genitourinary disturbances, and diabetes.

*Pre-requisite:* NURS 110 with a C+, *Co-requisite:* NURS 150

*1 credit (1 lecture hour: Online), fall and spring semesters*

### **NURS 160 - ENHANCED CLINICAL I**

An elective intensive clinical focused course offered at an affiliated, acute care health facility to increase the clinical confidence level of the beginning second year nursing student by providing continuity of care and expanding on the number and variety of patient care opportunities. Grading is pass/fail.

*Prerequisite:* NURS 150 with a C+ or permission of faculty.

*2 credits (30 hours/week of clinical laboratory for 2 consecutive weeks).*

### **NURS 200 - CLINICAL SIMULATION**

This hybrid clinical simulation course is designed to incorporate the student's previous knowledge of disease processes, nursing theory and nursing skills for diverse simulated patient care experiences. Emphasis is placed on developing the knowledge, skills and attitudes the student would need to deliver safe, holistic, evidence-based and competent care to the patient. Critical thinking skills are applied to all phases of the nursing process to develop cognitive, affective, and psychomotor skills. The student will collect, analyze and interpret patient data in an environment where mistakes can occur without adverse consequences to the patient. At the conclusion of each simulation scenario participants are provided with the opportunity to review their experiences during a debriefing/self-reflection session to obtain feedback from their peers and faculty.

*Prerequisite:* NURS 150 with a grade of C+ or better

*2 credits*

### **NURS 210 - NURSING CARE OF THE INDIVIDUAL WITH COMMON COMPLEX HEALTH PROBLEMS**

This course provides the theoretical foundation for nursing knowledge that supports the care of individuals across the life span with common complex health problems and of families in a variety of practice settings including acute care, obstetric and community health agencies. Students apply critical thinking skills to design, implement and evaluate nursing care with a particular focus on patient education to individuals and families. Therapeutic communication skills are enhanced through a variety of interactive learning strategies. Technology is applied to the research process as well as the delivery of care.

*Prerequisite:* NURS 150 and NURS 152 (with a C+ or better), *Pre or Co-Requisites:* NUTR 108 and BIOL 285

*9 credits (4 lecture hours, 10 clinical laboratory hours per week), fall or spring semester*

### **NURS 212 - PHARMACOLOGY II**

This second course in the series presents concepts of the study of drugs used for the prevention, treatment, and diagnosis of disease and symptoms associated with complex common health alterations. Principles of action, uses, side effects, and client education are discussed to facilitate the student's learning in the clinical environment. Information is presented by integrating pharmacology into the nursing process. Specific drug information is discussed in relation to assessment, nursing diagnosis, client monitoring, and interventions of safe and effective drug therapy. Client education takes on an increased focus to facilitate the student's ability to convey application of concepts to the public. The concepts presented will focus on the complex common health problems across the lifespan and obstetric care. Specific nursing responsibilities related to drug administration, including real world dosage calculations across the life span, continue to be emphasized. Some specific topics discussed in this course include the pharmacological treatment used for eyes, ears, obesity, electrolyte and acid/base imbalances, various cardiac issues, male and female reproductive disorders, labor, delivery, postpartum, and newborn care.

*Pre-requisite:* NURS 150 and NURS 152 (with a C+ or better), *Co-requisite:* NURS 210  
*1 credit (1 lecture hour: Online), fall and spring semesters*

### **NURS 220 - ENHANCED CLINICAL II**

An elective intensive clinical focused course offered at an affiliated, acute care health facility to increase the clinical competence of the second year nursing student by providing priority based care to a group of patients with complex common health problems. Grading is pass/fail.

*Prerequisite:* NURS 210 with a C+ or permission of faculty.

### **NURS 250 - NURSING CARE OF THE INDIVIDUAL WITH MULTIPLE COMMON COMPLEX HEALTH PROBLEMS**

This course provides the theoretical foundation for nursing knowledge that supports the holistic care of individuals with multiple complex common health problems across the life span. Students are afforded the opportunity to manage the care of groups of individuals with multiple complex needs in the acute care practice setting. Critical thinking skills are applied to the design, implementation and evaluation of holistic care. Students participate in learning experiences that enhance team building and conflict resolution skills. Students participate in activities that support lifelong learning through the development and evaluation of self-learning needs assessment and learning contracts, and peer review.

Own transportation required for the last 8 weeks.

*Prerequisites:* NURS 210 and NURS 212 (with a C+ or better), *Pre-or Co- Requisites:* NURS 251.

*8 credits (4 lecture hours, 8 clinical laboratory hours), fall or spring semester*

### **NURS 251 - TRANSITION INTO PRACTICE**

This course assists the students in role transition from student nurse to graduate nurse by offering learning opportunities through a seminar format on a broad range of topics that support professional nursing practice. Topics include resume writing, interviewing, critical thinking, leadership, management, prioritization, delegation and ethics and self-care.

*Co-requisite:* NURS 250

*1 credit: Hybrid, spring or and fall semester*

### **NURS 252 - PHARMACOLOGY III**

This final course continues to present concepts of the study of drugs used for the prevention, treatment, and diagnosis of disease and symptoms associated with multiple complex common health alterations. Principles of action, uses, side effects, and client education are discussed to facilitate the student's learning in the clinical environment. Information is presented by integrating pharmacology into the nursing process. Specific drug information is discussed in relation to assessment, nursing diagnosis, client monitoring, interventions, and client education. Evaluation of medication use and administration is incorporated to expand the knowledge of care of the client. The concepts presented will focus on multiple complex common health problems encountered across the lifespan. Specific nursing responsibilities related to drug administration, including real world dosage calculations across the life span continue to be emphasized. Some specific topics discussed in this course will include the pharmacological treatment used for critical care needs, autoimmune disorders, renal disorders and dialysis, HIV/AIDS, infectious, and degenerative neurological disorders, seizures, headaches, pancreatic and liver disorders, burns, endocrine disorders, respiratory, cardiac and hematological disorders.

*Pre-requisite:* NURS 210 and NURS 212 (with a C+ or better), *Co-requisite:* NURS 250  
*1 credit (1 lecture hour: Online), fall and spring semesters*

### **NURS 300 - BS NURSING PROGRAM ORIENTATION**

This course provides the entering BS Nursing student with a formal orientation to the program, curriculum, and your professional portfolio. Students participate in three separate campus classes with required, structured independent work between sessions. This course will provide the student with an introduction to hybrid/online education and the learning management system (Blackboard), support services, communication, time management, and evaluation and assessment methods. Requirements of all nursing courses, such as APA formatting and citation of sources will also be included. Students will begin their Professional Development Plan and Portfolio during this course, and continue to use and develop them throughout the BS nursing program.

*Prerequisite:* BS Nursing Program acceptance, or permission of Assoc. Dean/Chair.

*This course is offered at the beginning of each semester.*

*Corequisite:* BS Nursing program acceptance or permission of Assoc. Dean/Chair  
*1 credit (1 lecture hour) fall or spring semester*

### **NURS 310 - CONCEPTUAL FOUNDATIONS FOR PROFESSIONAL PRACTICE**

This course engages the learner in exploring the progression of the professional nursing role, focusing on teamwork and collaboration, communication, leadership, quality improvement, and safety. These competencies are essential for nursing, providing a solid foundation for a successful career.

*Pre/co-requisite:* NURS 300

3 credits (3 lecture hours) fall or spring semester

### **NURS 330 – HEALTH ASSESSMENT ACROSS THE LIFE SPAN**

This course assists the learner in broadening and refining health assessment and physical assessment skills in both individual and group learning experiences. Students will: differentiate normal and abnormal assessment findings; conduct and document a complete physical examination; use group learning experiences to broaden knowledge of the cultural determinants of health; use therapeutic communication techniques, evidence-based practice, and the principles of patient centered care to complete a culturally sensitive and developmentally appropriate client history. Documented practice sessions in the campus laboratory are required. This is a hybrid course with 30 campus lab hours.

*Pre/co requisite: NURS 300; NURS 310 with a C+ or better*

3 credits (2 lecture hours; 1 laboratory hour at 2:1 ratio (30 laboratory hours),) fall semester

### **NURS 361 – HEALTH PROMOTION ACROSS THE LIFE SPAN**

In this course the learner will engage in learning activities with peers, faculty and the broader learning community, to develop new knowledge of the concepts of health literacy, health promotion and disease prevention across the lifespan and for all levels of care. Topics include a range of determinates of health including psychosocial, physical, spiritual, cultural, and political factors and use a healthiness model based on human strengths to design and implement patient-centered health promotion and disease prevention interventions. The concepts that guide the teaching and learning process for nursing practice will be explored in depth. Nursing informatics is used throughout the course and to develop population specific profiles and learning tools. Integration of knowledge will be demonstrated through a service learning project. This course is a combination of face to face classroom time and asynchronous online learning.

*Pre/Co-requisite: NURS 310 with a C+ or better*

3 credits (3 lecture hours) spring semester

### **NURS 381 – LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL PRACTICE**

The focus of this course is to provide the learner with foundational concepts, elements, and practices of the contemporary nursing leader. Current issues in healthcare leadership are studied within a context of the program's five core concepts. Reflection and critical thinking strategies are used to explore and/or resolve leadership and/or management issues related to patient care and healthcare teamwork. Collaboration with interdisciplinary colleagues in healthcare organizations is stressed. The service learning project for this course involves leadership for planned change in your community of choice.

*Prerequisite: NURS 310 with a C+ or better*

3 credits (3 lecture hours) spring semester

### **NURS 430 – NURSING RESEARCH AND EVIDENCE-BASED PRACTICE**

The focus of this course is to provide the learner with the resources and learning activities to develop the skills needed to identify and critically appraise scientific evidence to evaluate the quality and applicability to clinical practice. The course content includes an overview of research concepts, ethical issues, literature searches and reviews, quantitative and qualitative research methods and designs, data collection, analysis and interpretation techniques. The learner will gain an understanding of the research process and the role of research in evidence-based practice for the use of quality improvement, and practical application.

*Prerequisite: all NURS 300 level courses, with a C+ or better*

*Pre/Co-requisite: BIOL 302; MATH 123 or equivalent*

3 credits (3 lecture hours), fall semester

### **NURS 431– Healthcare Policy, ISSUES AND TRENDS**

In this course the learner will explore current issues in healthcare, trends, public and social policies, and politics on the local, national and global level. While investigating the influence of economics, and regulatory bodies on the healthcare system. Individual and group learning will assist the learner to prepare themselves to engage in the economic, political, and policy dimension of healthcare. The student will learn to identify opportunities for political action in the workplace, communities and nursing organizations.

*Prerequisite: NURS 310 with a C+ or better*

3 credits (3 lecture hours) spring semester

### **NURS 450 – PUBLIC, COMMUNITY AND FAMILY HEALTH NURSING**

This course examines nursing and public health theory to identify factors that promote or act as barriers to health across the lifespan. Nursing's role in planning, directing and coordinating evidence-based health promotion and illness prevention activities that incorporate safety, epidemiology, cultural competence, quality and cost-effective measures will be explored. Integration of knowledge is demonstrated through a service learning project that will provide opportunities to develop and implement interdisciplinary holistic health promotion strategies with a population-centered focus. This course is offered primarily online with campus sessions at the beginning, middle and end of the semester. 45 hours of clinical experience are required.

*Prerequisites: All 300 level nursing courses, with a C+ or better*

*Pre/Co-requisite: BIOL 302*

5 credits (2 public health/community lecture hours; 2 family lecture hours, 1 clinical hour at 3:1 ratio (45 clinical hours), fall semester

### **NURS 461 – PHARMACOLOGY FOR NURSING PRACTICE**

This course is designed to enhance the registered nurses' basic knowledge of pharmacology. Normal anatomy and physiology and pathophysiology is correlated with the pharmacodynamics and pharmacokinetics of all major drug classes. The student will use prototype drugs to identify parameters for client assessment, safe drug administration, and evaluation of effectiveness. Through group discussions the student will investigate regulatory agencies that oversee drug development and public safety and enhance your understanding of the influence of the pharmaceutical industry on healthcare.

*Pre/Co requisite: BIOL 301 and NURS 310 with a C+ or better*

3 credits (3 lecture hours) spring semester

### **NURS 481 – CLINICAL PRACTICUM IN PROFESSIONAL NURSING**

This is the capstone course for the Morrisville State College BS Nursing Program. The learner will integrate the knowledge of nursing leadership and management, nursing informatics, and evidence-based practice to design and implement a patient-centered care quality improvement project. Professionally, the learner will collaborate and work in teams with peer colleagues, faculty, nurse preceptors, and expert clinicians. For the Capstone Quality Improvement Project a target population and healthcare setting will be selected by the learner with approval from faculty. The seminar portion of this course is online.

*Co-requisite: Final semester standing*

4 credits (1 lecture hour; 3 clinical hours at a 3:1 ratio (135 hours clinical), spring semester

## **NUTRITION**

### **NUTR 108 - BASIC NUTRITION**

Fundamentals of human nutrition including biological pathways of nutrients from digestion to metabolism. Computer analysis of personal nutrient intake. Emphasis on nutrition and consumer trends as well as personal wellness and fitness.

3 credits (3 lecture hours), fall and spring semester

### **NUTR 110 - NUTRITION I**

Nutrient and food energy needs of the human biological system. Body processes in the digestion, absorption and utilization of nutrients. Dietary guides for planning nutritionally balanced menus.

*Prerequisite: Admission to the dietetic technician, sports nutrition and fitness management, or nursing program or permission of the instructor.*

3 credits (3 lecture hours), fall and spring semester

### **NUTR 115 - HEALTH FIELD**

Introduction to health care field, team approach to total health care. Menu development and role of the nutrition professional in trend promotion and management. Exploration of career options. Project work in computerized Nutrition and Wellness Analysis Programs. Laptop computer required.

*Pre- or Co-requisite: NUTR 110*

2 credits (1 lecture hour, 1 laboratory hour), fall semester

**NUTR 160 - DIET THERAPY**

Diet therapy for disease and special conditions. Application of Academy diet principles. Menu planning and menu corrections for various disease states. Physiological reasons for the use of modified diets and nutritional needs of the body during illness.

*Co-requisite: NUTR 170*

*Prerequisite: C or better in NUTR 108 or NUTR 110*

*3 credits (3 lecture hours, 1 hour recitation), spring semester*

**NUTR 170 - SUPERVISED FIELD EXPERIENCE I**

Nutrition assessment and food production experience with various free-living and institutionally-based populations under the supervision of a Registered Dietitian. The course emphasizes an introduction to assessment and application of theory. Weekly conference hour. Transportation to and from field experience sites. Approved uniform required.

*Prerequisites: C grade or better in NUTR 108 or 110, NUTR 115, FSAD 101, FSAD 102*

*Co-requisite: NUTR 160*

*3 credits (6 practical hours, 1 lecture hour), spring semester*

**NUTR 210 - LIFE CYCLE NUTRITION**

Nutrition applied to individuals throughout the life span, including pregnancy and lactation, infancy and childhood, adolescence, adulthood and the aged. Emphasis on prevention and wellness models of care.

*Prerequisite: C or better in NUTR 108 or 110 and NUTR 160*

*3 credits (3 lecture hours), fall semester*

**NUTR 219 - ORIENTATION TO SUMMER FIELD EXPERIENCE**

This course is designed to orient the student for successful completion of the 150 supervised practice hours required for NUTR 220 - Summer Supervised Field Experience. The orientation process will assist the student in developing a realistic timeline, to prepare them for meeting the responsibilities of an intern and exposing them to the various forms and reports related to the summer field experience. This course must be successfully completed during the spring semester prior to the summer field experience.

*Pre- or Co-requisite: NUTR 160 and NUTR 170*

*1 credits (1 lecture hour), spring semester*

**NUTR 220 - SUMMER SUPERVISED FIELD EXPERIENCE**

Summer-supervised experience in an appropriate nutritional services department or program. Emphasis is on practical application of theory.

*Prerequisite: C or better in NUTR 160, NUTR 170 and NUTR 219*

*2 credits, fall semester*

**NUTR 225 - EDUCATIONAL METHODS FOR THE FOOD AND HEALTH CARE FIELDS**

Presentation of basic concepts in the educational process through communication skills. Includes: interviewing, writing, presentation and evaluation techniques needed in the Food Service Industry and Health Care fields.

*Prerequisite: Senior standing in food or health care curriculum or permission of the instructor.*

*3 credits (2 lecture hours, one 2 hour recitation), fall semester*

**NUTR 230 - SUPERVISED FIELD EXPERIENCE II**

Nutrition assessment and production experience in a health care facility. Application of theory in planning, implementing, and assessing nutritional care. Weekly conference hour. Transportation to and from clinical. Approved uniform required.

*Prerequisites: C or better in NUTR 160, NUTR 170 and NUTR 220*

*3 credits (6 practical hours, 1 lecture hour), fall semester*

**NUTR 250 - SPORTS NUTRITION**

Application of basic nutrition principles in the development of a total wellness and fitness program and the impact of nutrition on physical activity. Assessment of levels of physiological fitness and nutritional well-being. Prescriptive requirements for nutritional intervention in a total fitness program. Nutrient needs for fitness through the life cycle. Evaluation of current research data regarding nutrition intervention and practices for total health and physical well-being.

*Prerequisite: C or better in NUTR 108 or 110*

*3 credits (3 lecture hours), spring semester*

**NUTR 260 - MEAL MANAGEMENT: SPA CUISINE**

Meal preparation and service with emphasis on meeting spa cuisine parameters are covered in this course, as well as utilizing principles of recipe modification in food preparation and computerized dietary analysis. Presentations focus on current trends in marketing of healthful menus and recipe modification and development.

*Prerequisites: FSAD 102 & 255, NUTR 110, NUTR 115 and C or better in NUTR 225*

*3 credits (1 lecture hours, 4 laboratory hours), spring semester, laboratory fee required.*

*Approved uniform re-quired.*

**NUTR 270 - SUPERVISED FIELD EXPERIENCE III**

Community and food and nutrition experiences in various institutional and agency settings. Application of nutritional principles and assessment skills for various stages of the life cycle. Planning, implementing and assessing nutrition education for target groups. Students are responsible for arranging their own transportation to the field experience sites.

*Prerequisites: C or better in NUTR 210, NUTR 225, and NUTR 230*

*3 credits (6 practical hours, 1 lecture hour), spring semester*

**OFFICE ADMINISTRATION****OFFT 100 - INTRODUCTION TO WORD PROCESSING SOFTWARE**

This hands-on course introduces the concept of using word processing software to create letters, memos, reports and other documents in a timely manner. Documents will be created with graphs, charts, and tables to make it easier to convey information. The course will also cover using borders, shading, bullets, spell check, and creating envelopes and labels. Window explorer is used to help students organize their files.

*1 credit (3 lecture hours), spring and fall semesters, five weeks*

**OFFT 106 - PERSONAL COMPUTER KEYBOARDING I**

The module includes learning the keyboard by touch, learning the use of computer features, and developing proper stroking techniques. Basic letter and report formatting are included. This course is directed to non-office technology majors.

*1 credit (2 lecture hours), fall or spring semester, eight weeks*

**OFFT 108 - INTRODUCTION TO PERSONAL MANAGEMENT SOFTWARE**

This hands-on course introduces the concepts of using personal management software as a management tool to organize and manage personal and business information. This tool consists of creating e-mail messages, signatures, distribution lists, contacts, calendar, tasks, notes, and journal.

*1 credit (3 lecture hours), spring and fall semesters, five weeks*

**OFFT 109 - INTRODUCTION TO PRESENTATION SOFTWARE**

This hands-on course introduces the concepts of using presentation software to communicate effectively with an audience. The course will cover the basics of creating a presentation, using the design templates, adding text, tables, graphs, transition and animation to slides, formatting and printing of the presentation to be used as handouts.

*1 credit (3 lecture hours), spring and fall semesters, five weeks*

**OFFT 110 - INTRODUCTION TO SPREADSHEET SOFTWARE**

This hands-on course introduces the concept of using spreadsheets, lists and charts. The course will cover basic data entry into worksheets, formatting the worksheets, using formulas, and creating charts. Spreadsheets provide the tools needed to manage, present and analyze numeric data for personal or business use.

*1 credit (3 lecture hours), spring and fall semesters, five weeks*

**OFFT 111 - KEYBOARDING 1-A**

Development of basic keyboarding techniques on computers, including learning the keyboard by touch, learning the use of the computer features/commands and developing proper techniques. Basic letter formatting is included.

*1 credit (2 lecture hours), fall and spring semesters, seven weeks.*



**OFFT 112 - KEYBOARDING 1-B**

This course covers the development of computer keyboarding skills as well as speed and accuracy. Basic business/personal letters from text copy and script with envelopes, memos and tables are also covered. Students will also develop proofreading skills and use Macintosh software.

*Prerequisite:* OFFT 111 with minimum grade of C or permission from instructor for OFFT majors; minimum grade of D for all other majors

1 credit (2 lecture hours), fall and spring semesters, seven weeks

**OFFT 113 - KEYBOARDING 2-A**

Development of computer keyboarding skills in the production of diverse business letters and memo forms, complex tabulations, reports and manuscripts are covered in this course. Further development of speed and accuracy on production and straight-copy typing is also covered. Word software is used.

*Prerequisite:* OFFT 112 with minimum grade of C or permission from instructor for OFFT majors; minimum grade of D for all other majors

1 credit (2 lecture hours), spring semester, seven weeks

**OFFT 114 - KEYBOARDING 2-B**

The development of computer keyboarding skills in the production of business forms and templates such as purchase orders, form letters, business, standard and academic reports are covered in this course. Word software is used in this course, which also covers further development of speed and accuracy on production and straight-copy typing.

*Prerequisite:* OFFT 113 with minimum grade of C or permission from instructor for OFFT majors; minimum grade of D for all other majors

1 credit (2 lecture hours), spring semester, seven weeks

**OFFT 116 MEDICAL KEYBOARDING**

On-line course covering development of basic keyboarding techniques, including learning the keyboard by touch, learning to operate the computer and its menus, icons, and functions, and developing proper stroking techniques. Students learn the proper formatting of various medical documents including Chart Notes, X-Ray Reports, Consent Forms, History/Physical Forms, Single-Page and Two-Page Letters, and Two-Page Assessments and Referrals.

2 credits (2 lecture hours), fall and spring semesters

**OFFT 117- OFFICE ADMINISTRATION ORIENTATION**

This course is for all incoming Office Administration majors (including Medical Office Administration) only. Topics include researching occupational skills required for today's office administrative assistant, attending Career Fairs, attending one SGO meeting, preparing for Portfolio Day, discussing key items to prepare for upcoming internships, and understanding philosophies that are helpful to keeping your job once companies downsize and/or merge. Students also receive thorough instruction within Webmail, Outlook, customer service techniques, tele-phone etiquette, resume writing, Blackboard participation. Lectures will review career opportunities in a wide range of office administration professions with the help of many invited guest speakers and shadowing opportunities. OFFT AAS Degree Majors only (including Medical Office Admin AAS Degree)

1 credit hour, 3 lecture hours per class meeting – class will meet on the Morrisville campus one weekday every third week of the Fall Semester. Required of all Office Admin (Medical Office Admin) majors in their first or second fall semester enrolled in the program. THIS IS NOT AN ONLINE CLASS - Student must have ability to come to Morrisville State College's main campus.

**OFFT 120 - DOCUMENT DESIGN FOR EFFECTIVE COMMUNICATIONS**

This introductory course in word processing/information processing emphasizes formatting mailable copy, punctuation, spelling and proofreading. Development in complex tabulations, report formatting, column writing and designing letterhead as announcements as well as press releases and many other marketing documents used in today's business are also covered. Many Microsoft shortcuts/commands are emphasized to increase the productivity of the student.

3 credits (4 laboratory hours), spring semester

**OFFT 130 - DATA ENTRY**

Operating features of a microcomputer with practical business applications.

Speed development of 10,000 key-strokes per hour.

1 credit, fall semester

**OFFT 135 - MACHINE TRANSCRIPTION**

Integration of keyboarding skills with the operation of a transcription machine. Reinforcement of basic English skills, including spelling, punctuation, grammar, paragraphing, sentence construction, and proofreading skills. Mailable transcripts required for successful completion of the course.

*Prerequisite:* Successful completion of OFFT 112 or OFFT 116 or permission of instructor

2 credits, fall semester

**OFFT 200 MEDICAL CODING**

This is a beginning medical coding course designed to provide students with the essential information and working knowledge of health care coding systems used in billing insurance companies for medical services to ensure optimum reimbursement. The course offers practical and easy-to-follow instructions on how to code procedures and diagnoses using the CPT, ICD-10 and HCPCS systems. Other aspects of healthcare reimbursement will be covered such as HIPAA guidelines, abstracting information from patient records for correct placement on claim forms, inpatient and outpatient health care settings, and third party reimbursement issues.

*Prerequisite:* OFFT 250

3 credits (3 lecture hours), spring semester

**OFFT 201 - OUTPATIENT BILLING**

The course will focus on outpatient billing and accounting software. The student will learn to enter data into a computerized patient billing system, manage data, enter patient and case information, process transactions, process claims, create statements and produce reports.

*Prerequisite:* OFFT 250

2 credits (2 lecture hours) meets for 10 weeks, fall semester

**OFFT 202 - INPATIENT BILLING**

This course is designed to introduce the student to the basics of hospital billing and correct completion of the required claim form(s). Computer application is done using MediSoft's Just Claims software.

*Prerequisite:* OFFT 250

2 credit hours – 10 weeks (2 lecture hours, 2 laboratory hours), spring semester

**OFFT 210 - ADMINISTRATIVE SUPPORT STAFF PROCEDURES**

Exploration of office operations and procedures, new developments in office information technology and equipment, communication transmittal systems, records management, and administrative office skills and responsibilities. Students will gain experience with voice digital recordings, facsimile, copy machines and telephones to better enhance their skill set.

*Prerequisite:* OFFT 112

3 credits (3 lecture hours), fall semester

**OFFT 216 - PROFESSIONAL OFFICE PRACTICE SIMULATION**

Working in a computerized professional model office. Handling telephone calls, incoming mail, transcription, correspondence, spreadsheet and database applications, records management, coordinating travel and conference plans and preparing reports. The topics include a brush up on English and keyboarding skills and career information.

*Prerequisites:* OFFT 114 or OFFT 116, OFFT 120, OFFT 220

3 credits (4 laboratory hours), spring semester

**OFFT 218 - MEDICAL OFFICE PROCEDURES**

This course is designed to introduce students to the variety of tasks and skills required for an administrative medical assistant. Students will be able to understand medical ethics, bioethics, etiquette, legal responsibilities of the physicians, use computer software to schedule appointments, create and maintain patients medical records, bill and collect payment, and understand method the method of scheduling appointments. The procedures of banking and payroll are introduced as part of being an administrative medical assistant.

*Prerequisite:* OFFT 116

3 credits (3 lecture hours), fall semester

**OFFT 220 – DOCUMENT DESIGN FOR BUSINESS ANALYSIS**

This course involves learning Microsoft Excel and Access skills. It includes topics such as merge, sort, charts, filtering, pivot tables, queries, designing your own table, etc. Students gain experience and understanding of versatility within the databases.

*3 credits (4 laboratory hours), fall semester*

**OFFT 235 - MEDICAL TRANSCRIPTION**

This is a beginning medical transcription course designed to provide students with a working knowledge of the transcription of medical documents, including x-ray reports, chart notes, history and physical reports, consultations, office procedures notes, progress notes and letters. The goal of this course is to develop transcribing speed and accuracy, gain skills in editing and proofing documents, and increase knowledge of medical terminology.

*Prerequisites: OFFT 116, OFFT 135, and OFFT 250 or permission of instructor*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

**OFFT 250 - MEDICAL TERMINOLOGY**

This is a full semester course designed to instruct students in the various medical terminology used in medical environments today. Students learn how to pronounce and spell medical terms correctly, understand “root” words, as well as prefixes and suffixes of various terms and also recognize and define terms pertaining to the sciences of the human body and fields of medicine.

*3 credits (3 lecture hours), fall semester*

**OFFT 251 - OFFICE MANAGEMENT**

A study of the operations, controls, problems, systems, and human relations in the changing electronic office age are included in this course. Topics include introduction of office management, human relations management, building an understanding of the management of office services, building an understanding of office systems, building an office management vocabulary, seeking employment as a supervisor/manager. Operation of office equipment, including word processors required.

*Prerequisites: OFFT 112, and OFFT 120 and OFFT 220, or permission of instructor.*

*3 credits (3 lecture hours), spring semester*

**OFFT 291 - OFFICE TECHNOLOGY INTERNSHIP I**

All second-year students are strongly encouraged or required to participate in this internship opportunity. Students must complete 45 hours within an office environment. Many of the offices that participate in this internship are on campus; however, students may also work off campus. The focus of this internship opportunity is not only to give students a greater understanding of working within a professional organization, but also to open doors for the students if an opening occurs in their internship office after graduation. Monitoring occurs during the 45-hour, one-credit internship experience whereby the Office Technology faculty meets both student and his/her Internship Supervisor at the office where the student is interning.

*Prerequisite: Prerequisite: Office Administration/Medical Office Administration sophomore student status and BSAD 140*

*1 credit (45 hours per semester), fall and spring semester*

**OFFT 292 - OFFICE TECHNOLOGY INTERNSHIP II**

Similar to OFFT 291 since it is an additional one-credit hour course (another 45 hours required) and is taken after a student has successfully completed OFFT 291. OFFT 292 allows a student an additional credit, and subsequently, additional working experience.

*Prerequisite: OFFT 291*

*1 credit (45 hours per semester), fall and spring semester*

**OFFT 301- ADVANCED MEDICAL CODING**

This course is designed to utilize the student's previous learning experience to the variety of tasks and skills required for an administrative medical assistant dealing with coding. Students will be able to work on cases that are coded with service codes (CPT and HCPCS) and diagnosis codes (ICD-9-CM) in the outpatient settings of the clinic and outpatient departments of the hospital for both the physician and facility services.

*Prerequisite: OFFT 200- Medical Coding*

*3 credits (3 lecture hours)*

**OFFT 335 - ADVANCED MEDICAL TRANSCRIPTION**

This is an advanced medical transcription course whereby students gain competence in transcribing the advanced materials provided in the textbook, which more closely resemble on-the-job tasks than in the initial stages of learning medical transcription. This course has strong emphasis on editing and critical thinking activities.

*Prerequisite: OFFT 235 Medical Transcription*

*3 credit hours (2 lecture hours, 2 laboratory hours), fall semester*

## PHILOSOPHY

**PHIL 201 - INTRODUCTION TO PHILOSOPHY**

This course is an introductory study of both historical and contemporary approaches to the basic philosophical issues of knowledge, values, reality, matter, mind, soul, God.

*3 credits (3 lecture hours), fall or spring semester (second-year students only)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

**PHIL 211 - MODERN ETHICS**

Examines problems of human conduct and reflective choices such as right and wrong, duty and conscience. Study and discussion center on human values, questions of morality versus legality, situation ethics and whether ends can justify means.

*3 credits (3 lecture hours) fall or spring semester (second-year students only)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

**PHIL 311 - PROFESSIONAL ETHICS**

The objective of this course is to provide students with a realistic working model for ethical decision making in their professional field. Students will identify their existing set of moral values. From this basis, students will develop, refine, and evaluate their ethical stance based on the study of ethical theorists. The workable nature of their ethical approach will be tested through case studies, in-class discussion and written assignments.

*Prerequisites: C or better in COMP 101, junior or senior standing and an introductory course in philosophy, or consent of instructor*

*3 credits (3 lecture hours)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

## PHYSICAL SCIENCE

**PSCI 101 - PHYSICAL SCIENCE**

For students with a limited background in the physical sciences and/or non-science majors. Disciplines include chemistry, physics, geology and astronomy. Demonstrations, field trips, class discussion and student prepared and presented papers.

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

## PHYSICS

**PHYS 107 – INTRODUCTORY PHYSICS I**

An introduction into the concepts and methods of scientific inquiry illustrated using elements of classical mechanics complemented with laboratory experiments. Topics include translational and rotational motions of particles and rigid bodies, analyzed using simple algebra-based Newtonian kinematics, dynamics and statics, and conservation of energy and momentum.

*Pre- or Co-requisite: MATH 102 or equivalent*

*4 credits (3 lecture hours, 2 laboratory hours)*

**PHYS 108 – INTRODUCTORY PHYSICS II**

An introduction into the concepts and methods of scientific inquiry illustrated using fundamentals of thermal physics and classical electromagnetism complemented with laboratory experiments. It includes a survey of

thermodynamic variables and laws applied to ideal-gas processes and phase changes in matter. Also, it discusses electromagnetic interactions and fields exemplified using charge statics and dynamics, simple elements of electric circuits, and an excursion into the nature of light.

*Prerequisite:* PHYS 107 or permission of instructor

*4 credits (3 lecture hours, 2 laboratory hours)*

### PHYS 127 – GENERAL PHYSICS I

The first of two general-level survey courses in Physics, with an emphasis on analysis using algebra and trigonometry. Topics include: physical units and dimensions, vectors, kinematics, Newton's laws, potential and kinetic energy, circular motion, linear and angular momentum, and rigid body motion.

*Pre- or Co-requisite:* MATH 103 or equivalent

*4 credits (3 lecture hours, 2 laboratory hours), fall semester*

### PHYS 128 – GENERAL PHYSICS II

The second of two general-level survey courses in Physics, with an emphasis on analysis using algebra and trigonometry. Topics include: concepts of heat, work, internal energy, heat transfer, and the first and second laws of thermodynamics. Simple harmonic motion, wave motion, harmonic waves, and superposition. Topics in electromagnetism. Properties of light include reflection, refraction, interference, diffraction, polarization, the electromagnetic spectrum, and optical instruments.

*Prerequisite:* PHYS 127 or permission of instructor

*4 credits (3 lecture hours, 2 laboratory hours), spring semester*

### PHYS 154 – UNIVERSITY PHYSICS I – MECHANICS

This course is a calculus-based introductory survey of classical mechanics. It presents translational, rotational and vibrational motion of particles and rigid bodies based on Newtonian kinematics and dynamics, and on the laws of energy and momentum conservation.

*Pre- or Co-requisite:* MATH 161 or equivalent

*4 credits (3 lecture hours, 2 laboratory hours), Spring semester*

### PHYS 155 – UNIVERSITY PHYSICS II – (ELECTRICITY AND MAGNETISM)

This course is a calculus-based introduction into the classical theories of electricity and magnetism with applications to electrical components and circuits. It surveys concepts such as the intertwined nature of electric and magnetic fields, classical laws and models culminating with Maxwell's equations of electromagnetism, and devices including capacitors, resistors and inductors combined into simple dc and ac-circuits.

*Prerequisite:* PHYS 157

*Pre- or Co-requisite:* MATH 162 or equivalent

*4 credits (3 lecture hours, 2 laboratory hours), Fall semester*

### PHYS 254 – UNIVERSITY PHYSICS III – SOUND AND THERMODYNAMICS

This course is an introduction into the theory and applications of acoustics and classical thermodynamics. The sound part is an illustration of mechanical wave characterization, production, propagation and detection. The topics of thermodynamics include a classical interpretation of the thermal properties of matter at macroscopic and micro-scopic scales, a survey of thermal processes and the laws of thermodynamics, and their applications to simple heat machines.

*Prerequisite:* PHYS 154, 155

*Pre- or Co-requisite:* MATH 261 or equivalent

*4 credits (3 lecture hours, 2 laboratory hours), Spring semester*

### PHYS 255 – UNIVERSITY PHYSICS IV – OPTICS AND MODERN PHYSICS

This course is an introductory exploration of increasingly explanatory theories of light and matter, from classical optics to modern physics and cosmology. The discussion of optics includes concepts and applications of ray optics (reflection, refraction and image formation) and wave optics (interference, diffraction and polarization). The suite of modern physics includes elements of relativity and quantum mechanics applied to the study of matter in atomic, nuclear, molecular and solid state physics.

*Prerequisite:* PHYS 154, 155

*Pre- or Co-requisite:* MATH 262 or equivalent

*4 credits (3 lecture hours, 2 laboratory hours), Spring semester*

## PLASTICS TECHNOLOGY

### PLAS 121 - INTRODUCTION TO PLASTICS

An Introductory course covering: basic chemistry, plastics materials, product applications, processing methods, assembly and finishing techniques.

*4 credits (3 lecture hours, 2 laboratory hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement.*

### PLAS 131 - PLASTIC PRODUCT & MOLD DESIGN

Basic principles of molded part and tooling design. An emphasis on injection molded parts and the steel molds in which they are made. The course culminates into a student designed mold to be built and used in the machine tools and plastics laboratories.

*3 credit hours (2 lecture hours, 3 laboratory hours), spring semester*

### PLAS 221 - PLASTICS MANUFACTURING PROCESSES

This course applies the machining principles acquired in Manufacturing Processes I (MFG 221) toward the repair, machining and assembly of plastics tooling which was designed in Plastic Product and Mold Design (PLAS 131).

*Prerequisite:* PLAS 131

*1 credit hour (3 laboratory hours), spring semester*

### PLAS 231 - PLASTICS PROCESSING I

Theory, operation and setup of major plastics production processes. These include injection molding, blow molding, extrusion, thermoforming, rotational molding, compression molding, and foaming processes. The processing of reinforced plastics is also covered.

*Prerequisite:* PLAS 121

*4 credit hours (3 lecture hours, 3 laboratory hours), fall semester*

### PLAS 241 - PLASTIC MOLD CONSTRUCTION

A laboratory course which combines use of the machining and plastics laboratory operations. Students will build a mold, including its necessary related tooling, to produce a finished plastic part previously designed in the PLAS 131 course. The part is then produced in the plastics laboratory.

*2 credit hours (6 laboratory hours), spring semester*

### PLAS 251 - PLASTICS PROCESSING II

The final course in the plastics curriculum. It covers the secondary processes of decorating and coating, finishing, and assembling of plastics products to conclude the final sequence of production. The basic concepts of statistical process control (SPC) and total quality management (TQM) are also introduced and the environmental aspects of plastics are examined.

*Prerequisite:* PLAS 231

*2 credit hours (1 lecture hour, 3 laboratory hours), spring semester*

## POLITICAL SCIENCE

### POLI 101 - AMERICAN NATIONAL GOVERNMENT

Topics include nature, functions and philosophy of the government of the United States, importance of the individual in the American constitutional system and the dynamic aspects of that structure.

*3 credits (3 lecture hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### POLI 111 - STATE AND LOCAL GOVERNMENTS

Topics include state and local government structures-grass roots politics, parties, and policies on state, county, city, township, village, and special district levels. Interrelationships, structures, functions, financing, problems and how they are approached today. Participation directly and indirectly in these governments by the average citizen.

3 credits (3 lecture hours), spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.

### **POLI 113 - AMERICAN JUDICIARY SYSTEM**

This course introduces students to the operations of criminal, civil, and appellate courts and their key participants and includes an evaluation of the American Judiciary System.

3 credits (3 lecture hours) fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement.

### **POLI 151 - INTRODUCTION TO COMPARATIVE GOVERNMENT**

This is an introductory course in comparative government that examines both the theoretical and real-life issues confronting governments today. It discusses such basic concepts as: the social contract, democracy, authoritarianism, capitalism, and socialism. Concepts and structures are presented in the context of actual contemporary (non-U. S.) world governments.

3 credits (3 lecture hours)

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Other World Civilization.

## **PSYCHOLOGY**

### **PSYC 101 - INTRODUCTION TO PSYCHOLOGY**

This course includes an introduction to the scientific study of behavior, mental processes, and the influences upon them. It also covers major theories and findings in psychology, including learning, cognition, abnormal psychology, and others.

3 credits (3 lecture hours), fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.

### **PSYC 103 - INTRODUCTION TO APPLIED PSYCHOLOGY**

An introduction to the Applied Psychology major, the course discusses career options in psychology, and provides information on choosing and preparing for a career path with a psychology degree.

Prerequisite: Major in Applied Psychology; pre- or co-requisite PSYC 101

1 credit

### **PSYC 161 - SOCIAL SCIENCE AND PSEUDOSCIENCE**

This one-credit course provides an in-depth look at how social scientists collect and assess evidence for and against their theories. We will compare these methods to similar techniques from popular culture, particularly paranormal investigations.

1 credit (3 lecture hours), spring semester; total of 5 weeks

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.

### **PSYC 221 - BIOLOGICAL PSYCHOLOGY**

This course is an introduction to the biological side of psychology. Students will gain knowledge of physiological processes and their relationship to human thought and behavior.

Prerequisite: Grade of "C" or better in Introduction to Psychology (PSYC101) and grade of "C" or better in Human Biology (BIOL 105) or the equivalents.

3 credits (3 lecture hours), fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.

### **PSYC 241 - CHILD DEVELOPMENT**

A survey of the biological, cognitive, emotional, and social aspects of human growth and development from birth to adolescence. Special emphasis on contemporary theories.

Prerequisite: PSYC 101 or equivalent, or permission of instructor

3 credits (3 lecture hours), fall or spring semester.

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.

### **PSYC 242 - ADOLESCENT DEVELOPMENT**

This course will focus on the general principles and theories of development during the adolescent period. Topics included are biological and cognitive processes, psychosocial development, identity and other special issues and concerns in adolescence.

Prerequisite: PSYC 101 or equivalent, or permission of instructor

3 credits

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.

### **PSYC 243 - ADULT DEVELOPMENT**

This course covers the years between 18 and 50 are the center of life, a time of growth, opportunity, and crisis. It examines what philosophers, social scientists, psychologists and other human beings have theorized about the process of living and aging. Moral as well as personality insight and strategies for survival will be explored so that future coping with life's changes will not be as isolating or overwhelming.

Prerequisite: PSYC 101 or equivalent or permission of instructor

3 credits (3 lecture hours), fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.

### **PSYC 251 - ABNORMAL PSYCHOLOGY**

This course examines psychological disorders from a variety of perspectives. In addition to the usual survey of psychological disorders across diagnostic categories, it also considers the possible causes of psychological problems and a wide variety of therapeutic techniques used to treat them. The history and scientific underpinning of psychological diagnosis and treatment is also covered.

Prerequisite: PSYC 101 or equivalent, or permission of instructor

3 credits (3 lecture hours), fall or spring semester

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.

### **PSYC 255 - PSYCHOLOGY OF PERSONAL ADJUSTMENT**

This course examines personal growth and adjustment throughout the life span, encompassing theory research and practical applications. Topics include: theories of adjustment, characteristics of the healthy personality, inter-personal relationships, adjustments to school, work, and retirement, understanding and managing stress, human sexuality, and strategies for coping and adjustment.

Prerequisite: PSYC 101 or equivalent or permission of instructor

3 credits (3 lecture hours)

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.

### **PSYC 284 - PSYCHOLOGY OF GENDER**

This course examines factors that contribute to the development of gender, explores internal and external pressures that mold and modify male/female behavior and personality. Cultural and ethnic differences between men and women are also studied.

Prerequisite: PSYC 101 or equivalent or permission of instructor

3 credits (3 lecture hours)

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.

### **PSYC 304 - INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY**

This course is designed to help students develop an understanding of human behavior in work settings, the variables which affect workers and their productive efficiency and strategies to improve productive human relations in such settings.

Prerequisite: PSYC 101 or equivalent, junior-level status (or permission of instructor)

3 credits (3 lecture hours)

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.

### **PSYC 325 - MOTIVATION AND BEHAVIOR**

This course examines the various theories that attempt to explain the complex reasons why humans pick one behavior or goal over another. It will cover many theories of motivation, including (but not limited to) physiological regulation,



pleasure-seeking, external incentive, and such modern theories as competency and effectance motivation.

*Prerequisite:* Grade of 'C' or better in Introduction to Psychology (PSYC 101), major in Applied Psychology or permission of instructor.

*Credits* (3 lecture hours), fall or spring semester

### PSYC 361 - RESEARCH METHODS AND APPLICATION IN APPLIED PSYCH I

The purpose of this course is to provide students with an introduction to the research methods and statistical interpretation used in the scientific discipline of psychology. This course will introduce basic concepts in research methods and assumptions used to design studies and will also present basic concepts from statistical analysis on how to design studies. Basic concepts from statistical analysis on how to describe data, evaluation and presentation of research methods and findings will also be covered.

*Prerequisite:* Grade of "C" or better in Introduction to Psychology (PSYC 101), grade of "C" or better in Intermediate Algebra with Trigonometry (MATH 102), and grade of "C" or better in Principles of Computers and Applications (CITA 101) or the equivalents, or permission of instructor.

*4 credits* (3 hours + lab), fall semester

### PSYC 362 - RESEARCH METHODS AND APPLICATION IN APPLIED PSYCH II

The purpose of this course is to provide a continuation of the material and topics from Research Methods and Statistical Application 1. This course will provide instruction into specific types of studies commonly conducted in the psychological sciences and the statistical methods used to analyze and interpret the data gathered in those studies.

*Prerequisite:* Grade of "C" or better in Research Methods and Application I (PSYC 361) or the equivalent

*4 credits* (3 hours + lab), spring semester

### PSYC 381 - PERSONALITY

This course will introduce students to various theories used to study stable traits and dispositions and how they are related to human behavior. This course will also explore many theories of personality including (but not limited to) Psychoanalysis, Neo-Freudian, Humanistic, Biological, and Evolutionary.

*3 credits*

*Offered fall or spring semester*

*Prerequisite:* Grade of "C" or better in Introduction to Psychology (PSYC 101), major in Applied Psychology or permission of instructor

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### PSYC 384 - GROUP BEHAVIOR

This course examines human behavior in small groups. The emphasis will be on participation in face-to-face small groups focusing on the group's behavior and each individual's behavior, including interaction style and skills.

*Prerequisite:* PSYC 101 or equivalent, and junior-level status (or permission of instructor)

*3 credits* (3 lecture hours), fall semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### PSYC 386 - SOCIAL PSYCHOLOGY

This course examines the relationship between the individual and the group, the influence of culture and of institutions on humans, factors in the development of social attitudes, and the psychology of mass movements and of social decisions.

*Prerequisite:* PSYC 101 or equivalent, or permission of instructor

*3 credits* (3 lecture hours)

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### PSYC 405-APPLIED PSYCHOLOGY INTERNSHIP ORIENTATION

Prepares students in the B.S. in Applied Psychology degree program for the 120-credit internship in the following semester. This course will introduce students to workplace expectations and norms and provide assistance in students' applications to internship.

*Prerequisite:* Major in Applied Psychology, successful completion of at least 90 credits or

*permission of instructor*

*1 credit* (1 lecture hour), fall semester

### PSYC 406 - APPLIED PSYCHOLOGY INTERNSHIP

This course involves supervised fieldwork in a selected business or human service organization.

Students carry out a planned program of educational experiences under direct supervision of a senior staff member on site. Each intern will be advised and monitored by a member of the faculty on a regular basis. Requirements include a journal, interim reports, supervisor evaluations, a summary report, and an oral presentation.

*Prerequisite:* Grade of "C" or better in PSYC 405, (Applied Psychology Internship Orientation), major in Applied Psychology, all other degree course work successfully completed.

*12 credits*, spring or summer semester

### PSYC 410 - SENIOR SEMINAR IN APPLIED PSYCHOLOGY

This course provides a framework for students to connect the theoretical concepts they mastered in their previous coursework to the practical concerns found outside of the laboratory, in business and in human services. As a topical course, exact content will vary from year to year.

*Prerequisite:* Completion of at least 12 credits in PSYC courses at the 300-level or above or the equivalent or permission of instructor.

*3 Credits* (3 lecture hours), fall semester

### PSYC 461 - TESTS AND MEASURES

This course is a hands-on introduction to testing and psychological measurement, including, basic psychometrics such as IQ and personality, academic testing such as the SAT and achievement tests, and employment related testing such as aptitude testing. Students will learn the fundamentals of what makes a good test, and the strengths and weaknesses of many common commercial tests.

*Prerequisite:* Grade of "C" or better in Introduction to Psychology (PSYC 101), grade of "C" or better in Research Methods in Applied Psychology I (PSYC 361) and grade of "C" or better in Applied Psychology II (PSYC 362) or the equivalents, major in Applied Psychology or permission of instructor

*3 credits* (3 lecture hours), fall or spring semester

## RENEWABLE ENERGY

### RENG 101 – BASIC ELECTRICITY FOR RENEWABLE ENERGY

Introductory course covering DC and AC electrical circuits as applied to renewable energy fields, including solar photovoltaics, small wind, micro hydroelectricity, biofuel generators, and standalone power systems (batteries and generators). Fundamental theoretical concepts will be intimately linked to hands-on laboratory exercises that form the basis for subsequent renewable energy courses. Power conditioning components will also be emphasized, including charge controllers, inverters, and diversion loads.

*Co-requisite:* MATH 102

*4 credits* (3 lecture hours and 2 lab hours), fall semester

### RENG 102 – RENEWABLE ENERGY RESOURCES

A scientific examination of the energy field with emphasis on alternate energy sources; their technology and application will be covered in this course, in addition to present needs and future demands; conventional sources, biomass conversions; wind power; geothermal; solar and nuclear energy. Conservation methods are stressed. Knowledge of intermediate algebra is highly recommended for this course.

*3 credits* (3 lecture hours), fall semester, (spring semester online only)

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science.*

### RENG 103 – RENEWABLE ENERGY SEMINAR

The course provides the student with an introduction to renewable energy resources and systems, recent socio-economic renewable energy issues, and career opportunities in the field of renewable energy and sustainability.

*1 credit* (1 lecture hour per week), fall or spring semester.

### RENG 150 – ANALYSIS TECHNIQUES FOR RENEWABLE ENERGY

This course provides students with fundamental analysis skills pertinent to the field of renewable energy systems. Course focus is on energy and power conversions, algebraic fractions, logarithmic and exponential power functions, Euclidean graph interpretation, and fundamental statistics, with a strong emphasis on renewable energy system examples.

*Pre – or Co-requisite: MATH 102, RENG 102*

*1 credit (1 lecture and 1 hr. recitation weekly), spring semester*

### RENG 221 – INTRODUCTION TO SMALL WIND SYSTEMS

This course provides students with an introduction to wind energy and the impacts of turbulence, frequency distributions, and tower height on the wind resource. Students are engaged with installation, maintenance, and troubleshooting small wind system (those <100 kW in size). This course covers the Job Task Analysis for the North American Board of Certified Energy Practitioners (NABCEP) Small Wind Installer examination.

*Prerequisites: ELEC 190 or DTEC 125 or AGEN 125, and PHYS 107 minimum grade of C.*

*3 Credits (2 hours lecture, 2 hours laboratory).*

### RENG 225 – TOWER CLIMBING AND RESCUE

This course is designed to give hands-on experience for those entering the residential wind turbine industry. Initial focus is on tower climbing standards, terminology of the tower climbing industry, and competent climber expectations and duties. Emphasis will be placed on working safely at heights, teamwork in stressful conditions, and fall protection equipment inspection. Students will be held to the National Association of Tower Erectors Authorized Climber and Competent Climber standards. Prospective students should be aware that this course is physically demanding and requires the willingness to be at heights. Must be able to lift 50 pounds and climb a ladder.

*Prerequisite: Renewable Energy major(s), or permission of instructor*

*2 credits (1 hour of lecture and 2 hours of laboratory), spring semester*

### RENG 231 – INTRODUCTION TO SOLAR PHOTOVOLTAICS

This course provides students with an introduction to solar energy and the impacts of seasonality, aspect, and latitude on solar resources. Students are engaged with system components and design of solar photovoltaic electricity generation in both grid-tied and off-grid systems. This course covers the Job Task Analysis for the North American Board of Certified Energy Practitioners (NABCEP) Solar PV Entry Level examination.

*Prerequisites: ELEC 190 or DTEC 125 or AGEN 125, and MATH 102 minimum grade of C.*

*3 Credits (2 hours lecture, 2 hours laboratory).*

### RENG 306 – ALTERNATIVE FUEL VEHICLES

This course explores current and future technology in the automotive industry in the areas of alternative power sources. Alternative vehicles such as hybrid electric, full electric (EVs), biofuels and fuel cell technology will be studied. Students will learn automotive technology necessary to understand the hurdles required to achieve a fully sustainable vehicle. Prior knowledge of automotive technology and internal combustion theory is helpful but not necessary.

*2 credits (1 lecture hour and 3 laboratory hours), spring semester*

### RENG 310 – BIOMASS ENERGY RESOURCES

This course provides students with a technical understanding of biomass energy resources, materials, and production systems. Two broad categories of biomass energy resources are considered: dedicated energy crops and waste streams or coproducts. The primary focus of the course is on the production of dedicated bioenergy sources, including agriculture, forestry and aquaculture feedstocks, and recovery of biomass from waste streams, including agriculture, forestry, municipal and industrial systems. The course also provides an introduction to chemical, biological, and thermal conversion pathways of biomass into useful energy sources and materials.

*Prerequisites: BIOL 120 or (RREN 302 or RREN 332) and MATH 102, or permission by the instructor.*

*3 credits (2 lecture hours, 3 lab hours), fall semester*

### RENG 315 – BIOMASS ENERGY RESOURCES II

This course builds on RENG 310 Biomass Energy Resources, with more emphasis on dedicated energy crops and woody biomass production systems. This course provides the student with a scientific and technical understanding of biomass energy crops and production systems with a focus on: dedicated energy crops establishment, site preparation, and planting methods; and harvesting, pre-processing and handling of agricultural and woody biomass crops as feedstocks for biomass-to-energy conversion systems.

*Prerequisite: RENG 310*

*3 credits (2 hours of lecture and 3 hours of laboratory), spring semester*

### RENG 321 – INTRODUCTION TO MICRO HYDROELECTRICITY SYSTEMS

This course provides students with an introduction to hydroelectricity and the impacts of head, flow, and fluid dynamics on the useable water resource. Students are engaged with installation, maintenance, and troubleshooting micro hydroelectricity systems (those <10 kW in size). Course focus will be on sizing penstock, mapping the hydro resource, and identifying environmental concerns with small hydro systems.

*Prerequisites: ELEC 291, AGEN 151 and PHYS 127 minimum grade of C.*

*3 Credits (2 hours lecture, 2 hours laboratory).*

### RENG 410 – BIOMASS ENERGY CONVERSIONS I. BIO-CHEMICAL

This course provides the student with a scientific and technical understanding of biomass energy conversions with a focus on biological-chemical conversions (e.g., fermentation, distillation, anaerobic digestion, etc.) of plant and waste compounds into useful energy sources such as biodiesel, ethanol, and methane. The focus of the course includes both small-scale and production-level energy systems designed to convert energy crops and waste streams into useable energy sources and products for chemicals, liquid and gaseous fuels, heat and electricity.

*Prerequisite: RENG 310, and BIOL 120 or BIOL 285*

*3 credits (2 hours of lecture and 3 hours of laboratory), fall semester*

### RENG 415 – BIOMASS ENERGY CONVERSIONS II. THERMO-CHEMICAL

This course provides the student with a technical understanding of biomass energy conversions with a focus on thermal-chemical conversions (e.g., pyrolysis, gasification, combustion) of plant and waste compounds into useful energy sources such as torrefied wood, char, bio-oils, synthesis gas. The focus of the course includes both small-scale and production-level energy systems designed to convert energy crops and waste streams into useable energy sources and products for chemicals, liquid and gaseous fuels, heat and electricity.

*Prerequisite: RENG 310, and CHEM 101 or CHEM 121*

*3 credits (2 hours of lecture and 3 hours of laboratory), spring semester*

### RENG 420 – SMALL WIND SYSTEMS

The focus of RENG 420 is on siting small wind systems, plotting and analyzing Weibull and Rayleigh wind distribution functions, analyzing wind shear and turbulence data, tip-speed ratios, optimizing turbine-inverter inter-actions for maximum energy production, rotor design, electrical system design, National Electrical Code, and system troubleshooting. Paperwork necessary for grant funding and New York State ordinances are also covered. This course will heavily emphasize the NABCEP requirements for small wind site assessment.

*Prerequisite: MATH 103, and RENG 221*

*3 credits (2 hours of lecture and 3 hours of laboratory), spring semester*

### RENG 430 – SOLAR PHOTOVOLTAIC SYSTEMS

The focus of RENG 430 is on siting solar PV systems, National Electrical Code Article 690, roof analysis, wind loading, weight loading, array withdrawal forces, sliding forces, 1-line electrical diagrams, system grounding, off-grid systems, optimizing system efficiency, and troubleshooting. Paperwork necessary for grant funding and New York State local ordinances are also covered.

*Prerequisite: MATH 103, and RENG 231*

*3 credits (2 hours of lecture and 3 hours of laboratory), fall semester*

### RENG 460 – SYSTEMS INTEGRATION

This is a capstone class for the Renewable Energy degree program. Quantitative, technical writing, and presentation skills (oral and written) will be applied to

design and propose a renewable energy system for a landowner. Students are expected to perform an energy audit, recommend energy efficiency and conservation measures, assess renewable energy resources available, design a full system consistent with landowner objectives, check for town ordinance regulations, prepare applicable paperwork for incentives and utility interconnection agreement, and conduct a financial analysis for the system. A final written and oral presentation will be graded.

*Prerequisite: Senior standing with successful completion of at least two 400-level RENG courses  
1 credit, spring semester*

### **RENG 490 – RENEWABLE ENERGY INTERNSHIP**

This course is intended to provide the student with a professional work experience in renewable energy or energy efficiency. This work experience should range from 120 to 600 hours (40 hours per credit) and apply theoretical and technical knowledge in a professional setting. Prior to taking this course, students are required to develop a resume, create goals and objectives of the internship, and seek internship organizations in conjunction with their internship advisor while in RREN 450. To qualify for the internship, the internship sponsor, student, and academic advisor must sign a written contract. Students will be required to prepare and submit interim progress reports, develop and submit a comprehensive written report, and deliver a professional presentation of their internship experience.

*Prerequisite: RREN 450, enrollment in the Renewable Energy B. Tech. program, and permission from the in-structor.  
3-15 credits, spring or fall semester*

## **RENEWABLE RESOURCES**

### **RREN 302 – RIPARIAN ECOLOGY AND WETLAND MANAGEMENT**

The focus of this course is on processing functions and structure of riparian and wetland areas and the multiple human influences on these areas. The options for management of these areas will be stressed. Lectures are used to introduce students to the principles and concepts; and lab exercises are used to visit and evaluate field sites for future management consideration.

*Co-requisite: NATR 210*

*Prerequisites: NATR 101, NATR 115, or college-level course in ecology or permission of instructor*

*3 credits (2 lecture hours, 3 laboratory hours) fall semester*

### **RREN 303 - FUNDAMENTALS OF GEOSPATIAL SYSTEMS**

This course is intended to cover the fundamentals of geospatial information systems. These include the geographic information system (GIS) which represents a computerized data management system designed to input, store, analyze and output geographically-referenced spatial data; the global navigation satellite system (GNSS) which combines globally-functional satellite constellations (including the U.S. Global Positioning System or GPS) with global and regional ground-based reference stations (at accurately surveyed locations) to enhance and broaden positioning; and remote sensing which is widely used to gather information about features on the earth's surface without being in physical contact with these features. The course is designed to provide students who possess limited geospatial technology and analysis background with the ability to gather spatially-distributed and geographically-references data, query data, analyze spatial relationships, and produce professional outputs. The specific topics covered include geospatial data models, geodesy, datums, map projections, and coordinate systems; mapping and cartographic output; data collection and entry; GNSS and coordinate surveying; aerial and satellite imagery; geospatial and tabular data analyses; basic geospatial analysis; advanced geospatial (including terrain) analyses; geospatial estimation; ge-ospacial modeling; and data standards and quality. The laboratory work will focus on the practical application of geospatial information systems following the hands-on approach where the student is expected to gain practical knowledge on using QGIS, ArcGIS for Desktop, aerial and satellite imagery, and a number of positioning and navigation systems.

*Prerequisite: NATR 213 and upper division standing permission of instructor  
4 credits (2 lecture hours, 4 laboratory hours), spring semester*

### **RREN 305 – RENEWABLE RESOURCES LAWS AND REGULATIONS**

The focus of this course is on the major federal environmental and related health and safety statutes currently in force. This course will also make general suggestions and give ideas on how one can identify potential environmental law problems and how to resolve them as effectively and efficiently as possible.

*Prerequisite: Bachelor degree standing or permission of instructor  
3 credits (3 lecture hours) spring semester*

### **RREN 312 – AQUATIC SAMPLING DESIGN AND TECHNIQUES**

A comprehensive study of sampling theory, design and methodologies currently used in the aquatic sciences. Course specifically addresses research sampling considerations and strategy design; sampling statistics and analysis; sampling and characterization of lake, river and wetland ecosystems; watershed and catchments delineation; and stream channel morphology and characterization. Course includes field dress and safety, field data management, watercraft operation, biometry, and data analysis.

*Prerequisites: NATR 250 or permission of instructor  
3 credits (2 lecture hour, 3 laboratory hours), fall semester*

### **RREN 332 – ENVIRONMENTAL PLANNING AND NATURAL RESOURCES MANAGEMENT**

Current issues, theories, practices and trends associated with multiple-use environmental planning and natural resource management. Emphasis is on critical thinking processes for the identification, definition, and resolution of environmental problems; planning and the implementation of plans; and management strategies for specific management goals.

*Prerequisite: Bachelor degree standing or permission of instructor  
3 credits (3 lectures hours), spring semester*

### **RREN 412 - ECOSYSTEM ADAPTIVE MANAGEMENT**

This is the capstone course of the Renewable Resources curriculum, building upon theory and analytical skills gained in prerequisite courses and closely integrated with RREN 332 - Environmental Planning and Natural Resources Management. This course will integrate theory and technical management concepts with policy considerations so that terrestrial, aquatic and human system management issues may be approached at a systems-level rather than as individual mitigation or mediation efforts.

*Prerequisite: RREN 332  
3 credits (2 lecture hours, 3 laboratory hours), fall semester*

### **RREN 420 - GEOSPATIAL TECHNOLOGY APPLICATIONS I**

This course involves the presentation of two integrated teaching modules that focus on the application of geospatial technology to forest and wildlife management. The first module includes the application of geospatial technologies to the integrated management and monitoring of forest land. The second module utilizes the application of geospatial technology to assess habitat resources for wildlife management. The two modules incorporate the global positioning system (GPS), geographic information system (GIS), and remote sensing technologies combined with field-tested, scientifically-based principles providing an integrated approach to natural resources management. The two modules are vertically integrated where field measurements are combined based on common sampling points.

*Pre- or Co-requisite: RREN 303; (junior standing or permission of the instructor)  
1 credit (1 lecture hour, 2 laboratory hours), 10-week course, spring semester*

### **RREN 421 - GEOSPATIAL TECHNOLOGY APPLICATIONS II**

This is an elective course in the Renewable Resources Technology BT program where students are expected to master the application of geospatial technology to natural resources management through independent and group projects where many of the college properties will be inventoried using the methodology covered in RREN 420. The course follows integrated approaches to the management and monitoring of forest land as well as the assessment of habitat resources for wildlife management by focusing on a new college property each year. Geospatial technologies including the global positioning system (GPS), geographic information system (GIS), and remote sensing are combined with field-tested, scientifically-based principles providing an integrated approach to natural resources management of the forest.

*Prerequisites: RREN 420*

2 credits (1 hour of lecture and 4 hours of laboratory), 10-week course, fall semester

### **RREN 450 – RENEWABLE RESOURCES INTERNSHIP ORIENTATION**

This course is designed to prepare students for an internship and to assist them with the process of employment and career development. It prepares students for internship requirements such as goal definition, placement site identification, job application, performance evaluation and report writing. RREN 450 formalizes internship planning and preparation to insure that internships are procured, conducted in a professional manner, follow course guidelines, and satisfy the goals and objectives of students, faculty advisors and cooperating placement sites.

1 credit (2 lecture hours), 8-week course, spring semester

### **RREN 470 - INTERNSHIP IN RENEWABLE RESOURCES**

This course involves supervised fieldwork at an approved placement site. Students carry out a planned program of educational work experiences under direct supervision of an owner, manager, or supervisor. Each intern is advised and monitored by a member of the faculty on a regular basis. Requirements include a journal, interim reports, supervisor evaluations, a summary report and an oral presentation.

Prerequisite: RREN 450 and permission of the instructor  
15 credits

## **RESIDENTIAL CONSTRUCTION**

### **RESC 106 - GRAPHIC COMMUNICATIONS**

An introduction to the graphic standards of construction working drawings wherein students learn to interpret and interpolate construction drawings, using judgment based on accepted building techniques and material usage. Functional design concepts for residential floor plans are introduced and incorporated into various residential design situations. "Chief Architect" design software is introduced in laboratory sessions giving students the ability to design homes and create complete working drawings using the latest technology.

3 credits (2 lecture hours, 3 laboratory hours), fall semester

### **RESC 130 - LIGHT FRAMING**

Light framing and layout work encountered in residential construction are introduced in lecture sessions and practiced in laboratory settings, dealing with the construction and modification of light home and agricultural structures.

3 credits (2 lecture hours, 3 laboratory hours), fall semester

### **RESC 160 - INTRODUCTION TO BUILDING MATERIALS AND ESTIMATING**

A thorough introduction to the basics of platform framing and the major concepts of balloon construction, post and beam construction, and manufactured housing. Emphasis directed to understanding the advantages and limitations of contemporary building materials and methods and their impact on the construction industry. Laboratory experiences culminate with a take-off list of materials required for the proper construction of a residential structure.

Prerequisite: RESC 106 or permission of instructor

3 credits (2 lecture hours, 3 laboratory hours), spring semester

### **RESC 190 - CONSTRUCTION INTERNSHIP**

Work experience in the residential construction industry is detailed in a written report documenting and stratifying the various occupational tasks encountered. The candidate must receive prior approval from the department staff after submitting a detailed proposal in writing.

Prerequisite: Approval of department staff

1-6 credits

### **RESC 201 - ESTIMATING AND PLANNING**

The estimating consideration involved with the cost of doing business, the control of those costs, and the professional presentation of the final estimate to the prospective customer. Workbook Instruction in the use of construction calculators included in course work. The assessment portion of the class directs the student's attention toward a rational evaluation of the overall quality of a product of building material and its propriety of use in a given circumstance.

Guest lecturers from the industry and field trips to places of business enhance the student's understanding as to the variety of opportunities within the home-building industry.

Prerequisite: RESC 160

3 credits (2 lecture hours, 2 laboratory hours), fall semester

### **RESC 211 - MASONRY AND FOUNDATIONS**

An overview of the functional requirements of residential foundations, available systems to affect those requirements, and of the properties and uses of concrete and masonry products in residential construction. Laboratory sessions introduce the student to skills required to plan, place, and finish concrete, plus design, layout, and erect structures using masonry products.

3 credits (2 lecture hours, 4 laboratory hours), fall semester

### **RESC 221 - PLUMBING**

An overview of the plumbing trade including tools, skills, mathematics, nomenclature, science of fluids, cold and hot water distribution systems, and the drain-waste-vent system. The student will participate in the installation and testing of a residential plumbing system with special emphasis on setting of fixtures and trim work.

3 credits (2 lecture hours, 2 laboratory hours), fall semester

### **RESC 260 - HEATING AND ENERGY SYSTEMS**

The study of heat transfer in conventional building materials and construction techniques for reducing energy consumption. Subjects covered will also include residential hot water, hot air, and steam heating systems. Sizing of heating/cooling systems and selecting of peripheral components will be covered.

3 credits (2 lecture hours, 2 laboratory hours), spring semester

### **RESC 270 - CONSTRUCTION PLANNING AND MANAGEMENT**

A class for graduating Residential Construction majors that draws together features of all previous classes and introduces points directed toward effective planning and management of a construction project. The Senior Construction Project(s), a building activity completely organized, directed, and executed by the students, is the major concentration helping to prepare them for a management position in the home-building industry.

Prerequisite: Senior Residential Construction majors only

4 credits (1 lecture hour, 6 laboratory hours), spring semester

## **RESORT & RECREATION SERVICE MANAGEMENT**

### **RRMT 320 - LEGAL IMPLICATIONS IN THE RESORT AND RECREATION INDUSTRY**

This course will cover legal principles governing hospitality operations. Case studies involving the resort and recreation industry will be emphasized. Topics include responsibilities for loss or injury to guests and guest property, inn maker relationships tax laws, labor laws, building codes and public health regulations.

Prerequisites: BSAD 107 or BSAD 108

3 credits (3 lecture hours), fall semester

### **RRMT 398 – HOSPITALITY ANALYTICS AND REVENUE MARKETING**

This course studies the application of budgeting, finance and revenue management principles at resort enterprises. Students will gain an applied understanding of hospitality analytics and measures of performance for revenue centers at resorts. Quantitative assessment tools and metrics as well as industry benchmarks will be studied. The final portion of the term will focus on case studies and culminates with a final research project which analyzes and synthesizes findings, presenting them in client ready format.

Prerequisites: FSAD 201 or TOUR 251, 30 credit hours completed, or permission of instructor

3 credits (3 lecture hours), fall semester

### **RRMT 399 - STUDY OF WINE AND SPIRITS**

The intent of the course is to introduce the student to wine and spirits from various regions of the globe with an emphasis on location. Terroir and its



importance to the evolution of wine and spirits will be integrated throughout the course. Products that are indigenous to the areas of study will be researched, discussed and examined. Sampling of the various products will be done throughout the course. The course also examines the essential items needed to set up a proper bar area. This includes glassware, and tools necessary in the preparation of the service of alcohol.

*Prerequisites: CAS 240 or BSAD 112 and junior standing in bachelor's degree program or permission of instructor*  
3 credits (3 lecture hours)

#### **RRMT 425 - TRAINING DESIGN AND IMPLEMENTATION FOR THE HOSPITALITY INDUSTRY**

This course is an applications-based course that will provide students with a solid foundation in the principles and procedures for selecting, designing, implementing and evaluating training programs. Conducting a needs assessment, utilization of instructional design models, applying appropriate technology, and evaluating outcomes will be studied. Students will be able to link results of the training programs studied to the mission of the corporation.

*Prerequisite: RRMT or permission of instructor*  
3 credits (3 lecture hours), spring semester

#### **RRMT 430 - THE ASSESSMENT OF CUSTOMER SATISFACTION IN SERVICE MANAGEMENT**

This course will identify and utilize the various assessment issues related to evaluation and the development of instruments and methodologies. The focus will be placed on how these assessment methods can be implemented to measure customer satisfaction. Guidelines for the development of instruments and processes will be discussed with an emphasis on reliability and validity issues. Focus groups, their uses, makeup and procedures for effective use will be discussed. Company models will be used to implement and demonstrate the student's understanding of the subject material. The relationship between assessment and continuous quality improvement will be emphasized.

*Prerequisite: BSAD 221 or RRMT 398 or permission of instructor*  
3 credits, (3 lecture hours), spring semester

#### **RRMT 440 - TECHNOLOGY APPLICATIONS FOR RESORT AND RECREATION MANAGEMENT**

This course covers the applications of various software programs that enhance efficiency in resorts and recreational facilities. Identification of information management systems and function in various departments as well as necessary interfaces to enhance service recovery and quality will be covered.

*Prerequisites: TOUR 106, TOUR 153, RRMT 320*  
4 credits, (2 lecture hours, 2 hours of recitation), fall semester

#### **RRMT 450 - SECURITY AND SAFETY CHALLENGES AND INTERVENTION STRATEGIES FOR RESORT ENTERPRISES**

This course identifies issues of security, surveillance and safety which must be addressed by resort enterprises for loss prevention. Major concepts include operational intervention and strategies for an effective security and safety program. Legal, prevention and compliance requirements will be reviewed.

*Prerequisite: BSAD 310 or permission of instructor*  
3 credits (3 lecture hours), fall semester

#### **RRMT 460 - INTERNATIONAL HOTEL AND RESORT MANAGEMENT**

The goal of this course is to provide students with a basic understanding of the international hotel and resort industry by examining various aspects of hotel development and management in global terms.

*Prerequisites: TOUR 153*  
3 credits (3 lecture hours), spring semester

#### **RRMT 465 - MANAGING ENTERTAINMENT VENUES**

This course is designed to identify the components of successful entertainment venues. Special focus on strategic planning, budgeting, special considerations/requirements, legal issues, contracts, and public relations as they relate to leveraging the department. Students will integrate hospitality skills and knowledge to formulate an executive philosophy applicable to entertainment management. The class will implement a case study approach to enhance critical thinking and presentation skills.

*Prerequisite: RRMT 320 or permission of instructor*  
3 credits (3 hours per week, lecture), fall semester

#### **RRMT 470 – CAPSTONE EXPERIENCE ORIENTATION**

This 2 credit hour course is to be completed during the semester prior to the student's 12 credit hour capstone experience. The focus of this course will be on preparation for the capstone experience including self-assessment of workplace competencies, identification of preferred work sites, developing interviewing skills, formulating a list of ideal capstone sites, creating an electronic portfolio, the application process, designing strategic career mapping document, formulating objectives of the experience, creating an approved project plan for the capstone experience, and completing a facility orientation schedule. Necessary forms and the capstone experience plan, (identifying projects to be completed); for RRMT 480 will be submitted by the student, and must be approved, prior to beginning their capstone work experience.

*Prerequisite: FSAD 257 and RRMT 430, B.B.A Resort and Recreation Service major, or permission of instructor*  
2 credits (2 lecture hours)

#### **RRMT 475 - MEETINGS, EXPOSITIONS, EVENTS AND CONVENTION MANAGEMENT**

The goal of this class is to provide students with a comprehensive understanding of the meetings, expositions, events and conventions industry (MEEC). The class offers students an in-depth view of planning and management in MEEC. The course supports students with hands-on, step-by-step methods for planning and managing gatherings in MEEC.

*Prerequisite: TOUR 252 and RRMT 460 or permission of instructor*  
3 credits (3 lecture hours), spring semester

#### **RRMT 480 - RESORT AND RECREATION SERVICE MANAGEMENT INTERNSHIP**

This is supervised field work in a selected resort and recreation business or service organization. Students carry out a planned program of educational experiences under direct supervision of an owner, manager, or supervisor of the Resort or Recreation Department head in an organization. Each intern will be supervised by a member of the faculty on a regular basis. Written and oral reports of work experience activities will be required. An evaluation will be based on the quality of experiences gained from the internship.

*Prerequisites: RRMT 320, 430, 440, 470 or permission of instructor*  
12 credits, spring semester/fall semester/summer semester

#### **SCIENCE, TECHNOLOGY, AND SOCIETY**

##### **STS 101 – THE VALUES OF SCIENCE AND TECHNOLOGY**

This course explores ethical, social, political, and religious issues associated with science and technology. For many people, the practice of science is the pursuit of knowledge, while the application of technology involves tools that may have a positive impact on society, depending upon the actions of those using them. Students in this course will analyze contemporary challenges to those views, through the use of case studies and theoretical investigations (including fiction and film). The course will confront both science and technology with questions about knowledge, expertise, progress, and neutrality. By the end of the class, students should have a richer perspective on the values and challenges of science and technology within society.

*Prerequisite: "C" or better in COMP 101*

*Pre- or Co-requisite: Lab science*

3 credits (3 lecture hours) spring semester

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

##### **STS 301 – HUMANS VS. NATURE**

An exploration of the relationship between the natural world and human attempts to understand it (science) and control it (technology). The distinction between what is natural and what is technological often informs human discourse in terms of what is permissible and what is possible. Students will survey and critique the ethical, social, and scientific distinctions between the natural world and the human world. To this end, the course will take a broad view of technology to include human artifacts and technological systems, but will also grapple with objects at the boundaries of technology and nature – domesticated animals, designed babies, and other genetic and biological "enhancements" and

“reassignments.”

*Prerequisites: STS 101, or PHIL 201 or permission of instructor.*

*3 credits (3 lecture hours) fall semester.*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### STS 302 – HISTORY OF SCIENCE

This is an advanced topics course focusing on the history of science. The course surveys human understanding of the nature of the universe, beginning with the Neolithic peoples and continuing through ancient cultures such as the Chinese and Greeks and on into the early development of modern science in Europe. It ends with a discussion of the broad developments in science occurring in the past 200 years of world history. The role of ideology and technology in shaping our understanding of the world is also addressed. While covering the general shifts in world view from supernatural to natural, from philosophy to science, the course also will address the Kuhnian analysis of the paradigm as a key to understanding the nature of scientific knowledge and how communities accept new conceptions of the nature of the universe.

*Prerequisites: STS 101 or any 100-level HIST course*

*3 credits (3 lecture hours) fall or spring semester.*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### STS 316 – INVESTIGATING CYBERCULTURE

This course will examine the contemporary transformation in human interaction via computer technologies. Topics investigated through reading and research include: new concepts of space and time; electronic subjectivity and anonymity; new representations of gender, race and class; emergence of new forms of expression; localization and the trend in networked individualism and the impact of hypertext and multimedia technologies on human thinking and learning.

*Prerequisite: SOCI 101 or permission from the instructor.*

*3 credits (3 lecture hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### STS 401 – ADVANCED TOPICS IN SCIENCE, TECHNOLOGY, AND SOCIETY

This course focuses on a specific set of issues relating to how science and/or technology engage the larger social world. The issue set is examined in detail from a variety of perspectives (historical, philosophical, sociological, etc.). This course is designed to give upper-division students in the major an opportunity to explore a rapidly changing world in-depth. Topics vary from semester to semester. Topics selected will center around the social dimensions of recent or highly influential developments in science and technology, and might include subjects like gender and technology, modernism and science, or non-western scientific traditions.

*Prerequisites: junior or senior standing and permission of instructor*

*3 credits (3 lecture hours) fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

### STS 411 – SENIOR SEMINAR IN SCIENCE, TECHNOLOGY, AND SOCIETY

A refinement of the connection between the technical and critical skills developed throughout the STS major's coursework. In this course, the students will learn how to think critically and conceptually about the practice of STS. Each student in the course will produce a senior thesis.

*Prerequisites: senior standing and permission of instructor*

*Spring semester; 3 credits*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Humanities.*

## SKILLS COURSES

### SKLS 087 – READING ESSENTIALS

This course addresses the basic skills necessary for efficient college reading. The course concentrates on effective study reading and provides instruction and practice in vocabulary development, reading comprehension and reading rate.

*3 credits (not to count toward graduation credit), 3 lecture hours, fall or spring semester*

### SKLS 088 – WRITING ESSENTIALS

This course is designed to develop the basic language skills. It is a developmental skills course, grounding students in the mechanics of Standard English through sentence construction and paragraph organization and development.

*Prerequisite: D or better in high school English*

*3 credits (3 lecture hours), fall or spring semester*

*These credits do NOT count toward graduation credit.*

### SKLS 089 – ENGLISH AS A SECOND LANGUAGE

This is a course for students with limited experience with written and spoken English. Concentration on pronunciation, vocabulary development, written and spoken grammar and sentence construction, and basic reading and writing skills. The emphasis will be on everyday conversational English.

*3 credits (not to count toward graduation credit), 3 lecture hours, fall or spring semester*

### SKLS 091 – PRE-ALGEBRA

This course consists of basic mathematics with the ground work for introductory algebra. Topics include covers operations with whole numbers, integers, fractions, decimals, percents and application problems for each area. Students will learn strategies for solving problems without the use of a calculator. The goal of Pre-algebra is to prepare the student to deal with math as it occurs in everyday life and to prepare the student for introductory algebra.

*3 credits (not to count toward graduation credit), 3 lecture hours, fall or spring semester*

## SOCIOLOGY

### SOCI 101 – INTRODUCTION TO SOCIOLOGY

Introduction to sociological concepts, with description and analysis of the structure and dynamics of human society. Consideration of contemporary social institutional trends and of the reciprocal relationship among individuals and institutions.

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### SOCI 201 – SOCIAL PROBLEMS

A consideration of problems confronting contemporary civilization. Topics include institutional problems within family, economic, political, religious and educational systems, as well as the effect of these problems on individuals. Potential solutions to social problems will be addressed.

*Prerequisite: SOCI 101 or HIST 103, or permission of instructor*

*3 credits (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### SOCI 220 – MARRIAGE AND THE FAMILY

Designed for students who want to gain perspectives on the evolution and current state of marriage and family relations in the United States. There will also be a focus on alternatives to the traditional notion of marriage and family. Discussion of issues such as nontraditional relationships, mate selection and dating, gender roles, love and sexuality, family planning, separation and divorce, families in crisis, etc.

*Prerequisite: SOCI 101*

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### SOCI 221 – DEATH AND DYING

This course examines the impact of dying and bereavement on individuals, families, groups, social institutions and cultures.

*Prerequisite: PSYC 101 or SOCI 101*

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### SOCI 250 – SOCIAL GERONTOLOGY

Social, psychological, and physiological changes experienced in aging and the

responses of our society to problems faced by older people. Role changes in work and family relationships, economic and health problems, planning adjustment to retirement and beyond, institutionalization. Training of those responsible for care and management of older people.

*Prerequisite: PSYC 101 or SOCI 101*

*3 credits (3 lecture hours)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### **SOCI 270 - DRUGS, SOCIETY & BEHAVIOR**

Examination of the biological, psychological and sociological aspects of drug use and abuse in the United States.

*Prerequisite: PSYC 101 or SOCI 101*

*3 credits*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### **SOCI 360 - SOCIAL MOVEMENTS AND COMMUNITY CHANGE**

This interdisciplinary course examines social change through political advocacy and/or use of community re-sources.

*Prerequisite: SOCI 101*

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

### **SOCI 390 - URBAN SOCIOLOGY**

Urban sociology analyzes both the historical roots of urban development as well as the contemporary urban area as a regional social system. Basic sociological research concepts are used to discover demographic and organizational patterns and relate those patterns to urban problems and planning techniques.

*Prerequisite: SOCI 101*

*3 credits (3 lecture hours)*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Social Science.*

## **SPANISH**

### **SPAN 101 - BEGINNING COLLEGE SPANISH I**

This course is for students who have not previously studied Spanish and who are not familiar with the language. Using a communicative approach with a variety of listening, speaking, reading, and writing activities, students will become familiar with basic structure and vocabulary of the Spanish language. Elements of Hispanic culture, customs and geography will be introduced. Note: this course is not designed for students who have taken 3 or more years of Spanish in high school, or for anyone who has passed the high school Regents Spanish exam. This course is not designed to meet the needs of heritage or native speakers of Spanish.

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Foreign Language.*

### **SPAN 102 - BEGINNING COLLEGE SPANISH II**

This course builds on SPAN 101 to further develop and strengthen listening, speaking, reading and writing skills. Emphasizes the ability to use and understand Spanish in context. Instruction occurs in Spanish with clarification in English. Students express themselves orally, read authentic materials, understand oral input, and write compositions at high novice level. Prerequisite: SPAN 101 at Morrisville with a C grade or better, or 2 to 3 years of high school Spanish – Passing Grade in Course I and II

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Foreign Language.*

### **SPAN 125 – SPANISH FOR HERITAGE SPEAKERS**

This course addresses the needs of students who can communicate in Spanish but need to develop and/or improve their reading and writing skills. It will enable the student to capitalize upon his/her existing language skills, expand his/her knowledge base and develop his/her ability to read, write, and communicate

more effectively in the language. The student will recognize regional and dialectal differences, describing varieties of Spanish spoken in the U.S. and throughout the world. Special attention is given to specific linguistic issues such as diction, orthography and sentence structure. The course is conducted in Spanish and includes cultural discussions. Students cannot receive credit or both; SPAN 101 or 102 and SPAN 125.

*Prerequisite: Placement Evaluation or by permission of instructor*

*3 credits (3 lecture hours) fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Foreign Language.*

### **SPAN 201 - INTERMEDIATE COLLEGE SPANISH I**

Enhances Spanish listening, speaking, reading and writing skills. Emphasizes increasing the accuracy and depth of communicative abilities and cultural understanding. Students express themselves orally and in writing, read authentic sources, and understand clear, native speech at the intermediate level. Instruction occurs in Spanish.

*Prerequisite: passing Spanish 102 with a "C" or better, permission of instructor, or passing grade on Course 3 Regents Spanish*

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Foreign Language.*

### **SPAN 202 - INTERMEDIATE COLLEGE SPANISH II**

Strengthens Spanish listening, speaking, reading and writing skills acquired in intermediate Spanish I. Emphasizes increased accuracy and depth of the students' abilities and knowledge of contemporary Hispanic culture through group and individual work. Students express themselves orally and in writing at the high-intermediate level and understand key concepts when spoken clearly at native speed. Instruction occurs in Spanish.

*Prerequisite: Spanish 201 or passing grades on 3-4 years high school Spanish or permission of instructor*

*3 credits (3 lecture hours), fall or spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Foreign Language.*

## **TECHNOLOGY MANAGEMENT**

### **TECH 395 – INTERNSHIP ORIENTATION SEMINAR**

It is strongly suggested that this course be taken in the semester prior to the student's internship experience. Topics include the role of the internship in the student's professional development, formulating personal and professional goals, the current employment outlook in the technology field, employer expectations of an intern, formulating a job search strategy, the role of networking through the use of personal contacts and referrals, interviewing skills, the work environment in large, medium and small organizations. The documents and methods that will be used to evaluate the student during the internship will be clearly defined.

### **TECH 480 – INTERNSHIP IN TECHNOLOGY MANAGEMENT**

In this course, student will participate in supervised fieldwork. Students carry out a planned program of educational experiences under direct supervision of an owner, manager, or supervisor of the business/organization. Each intern will be advised and monitored by a member of the faculty on a regular basis. Requirements include a journal, interim reports, supervisor evaluations, a summary report and an oral presentation.

## **THEATER**

### **THEA 124 - INTRODUCTION TO THEATRE**

Critical, historical, aesthetic, and practical survey of dramatic forms and styles, the development of the theater, and contemporary theatrical practice. Analysis of plays of each type or period.

*3 credits (3 lecture hours), fall semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

### **THEA 125 - PLAY PRODUCTION**

Introduction to the basic techniques of acting, directing, and dramatic production. Practical experience in the fundamentals of character development,

stage movement and dramatic pantomime, the designing and construction of sets and planning of lighting. Students produce various scenes and participate in the college dramatic organization.

*3 credits\* (3 lecture hours), spring semester*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

### **THEA 150 - THEATRE PRODUCTION LABORATORY**

This course is an advanced hands-on course in theatre production. In this course the students will participate in the creation of a theatrical production from casting to performance in one of these four areas: acting, design, directing, or stage management. In acting the student will develop the ability to create a character through the rehearsal process while increasing confidence and poise. In the design areas the student will research past productions, develop a design concept for the production, and execute the final design. In directing the student will choose a production for performance, research said production, develop a production concept, hold auditions, and hold rehearsal for said production up to the last performance of said production. The Stage Manager will work with the director to co-ordinate all aspects of a given production and also be responsible for the back stage areas during performance. Students will also explore the significance of theatre in our society.

*Prerequisite: Permission of Instructor*

*For 1 credit, 2 credits, or 3 laboratory credits offered both fall and spring.*

*This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for The Arts.*

*Student must accumulate three credits (in any combination) to meet SUNY General Education requirement in the Arts. Students may successfully complete a combination of four credits of THEA 150 or THEA 160 toward graduation*

### **THEA 160 - TECHNICAL THEATRE PRODUCTION LABORATORY**

This course is for the student who wishes to work back stage or in the front of house for a chosen theatre production. The student will work with the stage manager and director to coordinate the front-of-house and backstage elements of a performance.

*Prerequisite: Permission of Instructor*

*For 1 credit, 2 credits, or 3 laboratory credits offered both fall and spring.*

*Does not meet SUNY General Education requirement in the Arts.*

*Students may successfully complete a combination of four credits of THEA 150 or THEA 160 toward graduation*

## **TRAVEL & TOURISM/HOSPITALITY MANAGEMENT**

### **TOUR 101 - TOURISM AND GEOGRAPHY**

This course approaches geography from a travel industry perspective. Basic geographic regions, country locations, and landmarks of significance to the travel industry are presented.

*3 credits (3 lecture hours), fall semester*

### **TOUR 106 - INTRODUCTION TO THE TRAVEL-TOURISM/HOSPITALITY INDUSTRY**

This course is a basic introduction to the travel and tourism industry. The course explores the roles played by the various components of the industry including air transportation, maritime transportation, surface transportation, the hotel industry, the tourism industry wholesale and distribution companies and the food service segment. The course also explores potential career options available in the industry. The course focuses on team building.

*3 credits (3 lecture hours), fall semester*

### **TOUR 151 - COMPUTERIZED RESERVATIONS SYSTEM**

Presents the concepts, procedures and formulas necessary for a working understanding of American Airline's SABRE Computer Reservation System. Students practice what they learn in a simulated SABRE environment with intensive hands-on computer exercises, case studies and role playing, travel reservations and bookings, travel agency and airline accounting, and legal issues affecting both.

*3 credit hours*

### **TOUR 152 - TRAVEL INDUSTRY OPERATIONS AND ADMINISTRATION**

Provides students with a basic understanding of travel agency and airline operations and administration as well as the legal environment of the travel industry. Topics include the role of ARC and IATAN, travel agency location and staffing, travel sales techniques and customer service skills are emphasized.

*3 credits (3 lecture hours), spring semester*

### **TOUR 153 - HOTEL OPERATIONS**

This course presents a systematic approach to front office procedures by detailing the flow of business through a hotel, from the reservations process to checkout and settlement. The course examines the various elements of effective front office management, paying particular attention to the planning and evaluation of operations and to human resource management. Front office procedures and management are placed within the context of the overall operation of a hotel. Certification by the American Hotel/Motel Association.

*3 credits (3 lecture hours), spring semester*

### **TOUR 200 - INTERNSHIP IN CUSTOMER SERVICE**

Customer service laboratory experience in conjunction with an approved restaurant or hospitality operation. A field experience providing food service administration, restaurant management, and travel/tourism majors with an opportunity to apply their knowledge in a customer service setting.

*3 credits, fall semester, spring semester*

### **TOUR 250 - TOURISM PLANNING AND DEVELOPMENT**

The goal of this course is to define the major concepts in tourism and to explore those factors influencing tourism. The course will also examine how the economic impact of tourism has become an important factor in the wealth of nations. Transportation Fee: \$30

*Prerequisites: TOUR 153 or permission of instructor*

*3 credits (3 lecture hours), fall semester*

### **TOUR 251 - COOPERATIVE WORK EXPERIENCE**

Cooperative work experience will be completed in an approved position in the Travel-Tourism/Hospitality industry (320 hours). Comprehensive written and oral reports are required at the end of the work experience during the fall semester.

*2 credits (2 lecture hours), fall semester*

### **TOUR 252 - MEETING AND CONVENTION SERVICES**

Introduction to convention and group planning as it relates to the Hospitality Industry. This certificate course includes marketing the facility for various meetings and conventions, catered events, planning, cost controls, special services, technology implications, and sales. National Certification by the American Hotel and Lodging Association.

*3 credits (3 lecture hours), spring semester*

### **TOUR 253 - TRAVEL AGENCY OPERATIONS**

This course will provide a hands-on experience focusing on customer service for the retail travel industry. The class will take place at the Morrisville State College Travel Center utilizing SABRE.

*Prerequisites: TOUR 151 and TOUR 152*

*2 credits (4 hours recitation), spring semester/fall semester*

### **TOUR 255 - TOURISM AGENCY OPERATIONS**

This course will provide the student with an advanced practical experience in tourism promotion agencies. The course will be taught in conjunction with tourism-related business. Students will complete an externship.

*Prerequisites: TOUR 151 and TOUR 152*

*2 credits (4 laboratory hours), fall and spring semester*

### **TOUR 390, CULTURAL IMMERSION AND INTERNATIONAL CUISINE FIELD STUDY**

This course is a full international cultural immersion. This special learning community coursework offers knowledge, exposure, and historical insight to international culture and cuisines. (The initial study abroad program is in



Italy.) The particular aspects of regional ingredients and traditional cooking techniques along with the lifestyles and historic origins are discovered. Students will be guided to practice cultural relativism using a holistic approach and practice hands-on ethnographic research methods as they study the people, art, and food & wine regions of a country. Students will practice and develop interviewing, observing, recording and evaluating skills. Students will examine the indigenous lifestyles, family structure, foods and traditions, gender roles, religion, art, architecture, human rights and globalization. Being a conscientious world-traveler makes for a better hospitality professional. Pre and post-trip work will be assigned. Lectures will also take place abroad. (Currently presented by the partner institution, Apicius via the Florence University of the Arts.)

*Co-Requisite: ANTH 260 offered at TC3\**

*Prerequisites: FSAD 100 or FSAD 101 or CUL 101, and TOUR 106, and TOUR 215 or FSAD 201. Permission of the Hospitality Technology Department.*

*\*Students enrolled in TOUR 390 will also be required to enroll in the Cultural Field Study Course at TC3 (our Study Abroad travel partners) which will run concurrently with TOUR 390*

*3 Credit hours, spring semester*

## WELLNESS

### WELL 101 – STRESS AND WELLNESS

This course introduces the student to the concept of stress, the normalization of stress, nutritional and exercise practices as related to stress, personal health strategies and specific skills for stress management.

*3 credits (3 lecture hours), fall or spring semester*

## WOOD PRODUCTS TECHNOLOGY

### BOAT 110 – INTRODUCTION TO BOAT BUILDING STRIP PLANK CANOE

A brief review of this history, uses, design and construction of wooden boats, with particular emphasis on canoes and kayaks. Course will include basic techniques for lofting, design and construction of a wooden mold for strip-plank boat building. Student will build a cedar strip canoe in the laboratory.

*Co - Prerequisites: WOOD 101 or with permission of instructor.*

*3 credits, (1 lecture hour, 3 hours laboratory) spring semester*

### WOOD 101 - WOOD PRODUCTS AND PROCESSES

An introduction to the furniture/lumber industry and its products, including commercial woods, furniture and cabinets, layout, hardware and assembly, as well as safety and nomenclature of machines are topics in this course. Laboratory includes introduction to common woodworking equipment and construction of small furniture project. There is a laboratory fee.

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### WOOD 160 - WOOD TECHNOLOGY

Anatomical features and physical properties and uses of wood are covered in this course as well as macro identification of commercially important species.

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

### WOOD 170 - LUMBER MANUFACTURE AND GRADING

This course covers basic sawmilling practices, the breakdown of logs into lumber, basic equipment and applications, air-drying of lumber and lumber grading rules.

*Prerequisite: MAGN 101 or permission of instructor*

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

### WOOD 180 - FURNITURE DESIGN AND CONSTRUCTION

Survey of the various styles of furniture, their design and construction. Students will design and construct a piece of furniture.

*Prerequisite: WOOD 101, DRFT 151, CAD 181 or permission of instructor*

*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### WOOD 190 - SUMMER WORK STUDY

This consists of work experience of at least 10 weeks in the wood industry between the first and second year a report is required. Prior instructor's approval

and pre-registration is necessary.

*3 credits, fall or spring semester*

### WOOD 201 - WOOD DESIGN PROBLEM

Special problem in wood design and fabrication as approved by instructor are among the topics covered in this course.

*Prerequisite: WOOD 101*

*1 credit, spring semester*

### WOOD 211 - WOOD INDUSTRY FIELD TRIP

Supervised field trip for observation and study of organizations, facilities and processes in the various industries within the wood industry. A SWOT analysis report is required

*1 credit, spring semester, senior year*

### WOOD 221 - WOOD GLUES, LAMINATES AND FINISHES

Basic concepts of surface preparation and application techniques used in gluing and finishing wood are covered in this course. Wood-adhesive and woodcutting relationships to assist diagnosing problems are also covered.

*Prerequisite: WOOD 160*

*3 credits (2 lecture hours, 3 laboratory hours), fall semester*

### WOOD 231 - SEASONING AND PRESERVATION

Students will learn principles of wood seasoning, dry kiln operation, wood-water relationship and species variation which affect the production of defect-free dried lumber and basic wood preservation practices.

*Prerequisite: WOOD 160*

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### WOOD 241 - SECONDARY WOOD PROCESSING

Students will explore the theory, principles and methods of machining wood, fastenings and assemblies. In a production environment. There is a laboratory fee.

*Prerequisites: WOOD 160, WOOD 170, WOOD 180*

*4 credits (2 lecture hours, 6 laboratory hours), fall semester*

### WOOD 260 - PRODUCTION MAINTENANCE SUPERVISION

General background in OSHA regulations pertaining to the wood & construction industry for production, installation & maintenance personnel. Basic CNC programming and job setup using "G Code" & "Master Cam" software. Course includes molder setup and operations including knife design & grinding and machine alignment.

*2 credits (2 lecture hours, 2 laboratory hours), spring semester*

### WOOD 270 - WOOD PRODUCTION ENGINEERING

This course is a complete engineering economic feasibility study course relative to the organization, location, establishment of a wood products manufacturing plant.

*Prerequisite: senior standing, WOOD 241*

*3 credits (1 lecture hour, 4 seminar hours), spring semester*

### WOOD 271 – CABINET DESIGN AND MANUFACTURING

Introduction to the principles of cabinet design and construction including emphasis on practical production problems relative to planning, layout and design, terminology, estimating, production sequence, types of construction, finishing, man-made boards, and installation.

*Prerequisite or co-requisite: WOOD 101, DRFT 151, CAD 181 or permission of instructor.*

*3 credits (1 lecture hours, 4 laboratory hours), spring semester.*

## SUNY BOARD OF TRUSTEES

H. Carl McCall, Chairman  
Merryl Tisch, Vice Chairman

### Board Members

Joseph W. Belluck  
Courtney Burke  
Michael Braun  
Eric Corngold  
Robert Duffy  
Angelo Fatta  
Gwen Kay  
Eunice A. Lewin  
Marshall A. Lichtman  
Stanley Litow  
Richard Socarides  
Carl Spielvogel  
Edward Spiro  
Cary F. Staller  
Nina Tamrowski

## SUNY CHANCELLORS CABINET

**Kristina M. Johnson**  
Chancellor

**Ricardo Azziz**  
Chief Officer, Academic Health & Hospital Affairs

**Elizabeth Bringsjord**  
Vice Chancellor for Academic Affairs and Vice Provost

**Jeff Cheek**  
President of the Research Foundation for SUNY

**Mike Braun**  
Student Assembly President

**Johanna Duncan-Poitier**  
Senior Vice Chancellor for Community Colleges and the Education Pipeline

**Elizabeth Garvey**  
Vice Chancellor for Legal Affairs and General Council

**Robert Haelen**  
Vice Chancellor for Capital Facilities and General Manager of the Construction Fund

**Gwen Kay**  
University Faculty Senate President

**Eileen G. McLoughlin**  
Senior Vice Chancellor for Finance and Chief Financial Offices

**Carlos Medina**  
Vice Chancellor and Chief Diversity Officer

**Robert Megna**  
Senior Vice Chancellor and Chief Operating Officer

**Teresa Miller**  
Senior Vice Chancellor for Strategic Initiatives and Chief of Staff

**Allison Newman**  
Senior Advisor for External Affairs and Government Relations

**Joseph B. Porter**  
Senior Vice Chancellor for Executive Leadership and Employee Development

**Nina Tamrowski**  
Faculty Council of Community Colleges President

**Tod A. Laursen**  
Senior Vice Chancellor and Provost

## SUNY MORRISVILLE COLLEGE COUNCIL

Kristi Anderson, Chair  
Arnold R. Fisher, Vice Chair

### Council Members

Lawrence J. Baker  
Steven R. Jones  
Elizabeth C. Moran  
Judith Gibson Noyes  
Michael P. Oot  
Hugh Riehlman  
Allen Riley  
Chris Lyndaker, Student Member

## Faculty & Staff Directory

### Administration and Professional Staff

\* These staff members also teach at the Norwich campus.  
‡ These staff members work at the Norwich campus.

Elizabeth R. Ackman, 2016  
*Director of Residence Life*  
*Saint Joseph's College, M.B.A.*  
*University of Southern New Hampshire, M. Ed.*  
*Keuka College, B.A.*

- Robert A. Arcuri, 2017  
*Director of Facilities*  
*SUNY College of Environmental Science and Forestry, B.S.*  
*SUNY Morrisville, A.A.S.*
- Debra Babowicz, 2016  
*Director, Student Health Services*  
*SUNY IT, M.S.*  
*Gannon University, B.S.*
- Dacia L. Banks, 2007  
*Director of Financial Aid*  
*Cazenovia College, B.S.*
- Samantha Barnes, 2017  
*Academic Advisor*  
*Cazenovia College, B.S.*
- Timothy Barth, 2013  
*Academic Advisor Assistant*  
*St. John Fisher College, B.A.*  
*SUNY Morrisville, A.A.S.*
- Micah Bates, 2017  
*Field Crop Manager*  
*Dordt College, B.A.*
- Bradley J. Becker, 2007  
*Assistant Athletic Trainer*  
*Canisius College, B.S.*
- Marquis L. Bennett, 2015  
*Director of EOP and Special Programs*  
*Rowan University, B.A., M.A.*
- Robert C. Blanchet, 2016  
*Chief Enrollment Officer*  
*St. John Fisher College, Ed.D.*  
*College at Brockport, B.S., M.A.*
- Paul Bliss, 2015  
*Residence Hall Director*  
*Indiana University of Pennsylvania, M.A.*  
*Edinboro University of Pennsylvania, B.A., M.A.*
- Sarah Bliss, 2016  
*CSTEP Outreach Advisor*  
*Indiana University of Pennsylvania, M.A.*  
*Hartwick College, B.A.*  
*Penn Foster College, A.S.*
- Sarah Bohnert, 2015  
*Instructional Support Assistant, Nursing*  
*Colorado State University, B.A.*  
*SUNY Morrisville, A.A.S.*
- Mary H. Bonderoff, 2017  
*Chief Diversity Officer*  
*Northeastern University, Ed.D.*  
*SUNY Oswego, B.S., M.S.*
- Shawn E. Bossard, 2010  
*Dairy Farm Manager*  
*SUNY at Oswego, M.B.A.*  
*Cornell University, B.S.*  
*SUNY Morrisville, A.A.S.*
- Eric M. Bremiller, 2015  
*Instructional Support Assistant, Horticultural and Environmental Science*  
*SUNY Morrisville, B.S.*  
*Mohawk Valley Community College, A.S.*
- Anastasia Brencher, 2016  
*Alumni Relations Coordinator*  
*State University College at Brockport, M.A.*  
*SUNY at Cortland, B.A.*  
*Jefferson Community College, A.A.*
- Joseph H. Bularzik, 2014  
*Dean, School of Science, Technology and Health Studies*  
*University of California, Berkeley; Ph.D.*  
*Arizona State University, B.S.*
- Taryn Burkholder, 2017  
*Head Women's Lacrosse Coach*  
*Niagara University, B.S.*
- Kyle A. Campanaro, 1997  
*Senior Systems Administrator*  
*Mohawk Valley Community College, A.A.S.*
- Mary C. Carbery, 2015  
*Human Resource Assistant*  
*SUNY Cortland, B.S.*
- Michael S. Carbone, 1997  
*Electronics Group Department Head, Physical Plant*  
*Community College of the Air Force, Certificate of Aerospace Management, A.A.S.*
- Kimberly A. Carney, 2007  
*Senior Staff Assistant, Student Accounts*  
*SUNY Morrisville, A.A.S.*
- Kimberly A. Carney, 2007  
*Senior Staff Assistant, Student Accounts*  
*SUNY Morrisville, A.A.S.*
- Gregory M. Carroll, 2001  
*Director of Athletics*  
*Syracuse University, M.S.*  
*St. Bonaventure University, B.A.*
- Seth A. Carsten, 2005  
*Instructional Support Assistant, Environmental Sciences*  
*SUNY Morrisville, A.A.S.*  
*State University of New York Chancellor's Award 2017*
- La'retta A. Castro, 2017  
*Director of Grants*  
*Le Moyne College, M.B.A.*  
*John Jay College of Criminal Justice, B.A.*
- Roberta A. Chapin, 2005  
*Instructional Support Assistant, Nursing*  
*SUNY Polytechnic Institute, M.S.*  
*Keuka College, B.S.*  
*SUNY Morrisville, A.A.S.*
- Kenneth P. Chapman, 2015  
*New Media Strategist*  
*SUNY Oswego, B.A.*  
*SUNY Morrisville, A.A.S.*

- Marc R. Cianciola, 2013  
*Assistant Director of Student Activities*  
*Kaplan University, M.A.*  
*SUNY Potsdam, B.A.*
- Nicole D. Cianciola, 2016  
*Staff Accountant*  
*SUNY Polytechnic Institute, B.S.*  
*Herkimer County Community College, A.S.*
- Latimah Clark, 2016  
*EOP Counselor*  
*University at Buffalo, B.S., M.S.*
- Marc R. Cianciola, 2013  
*Assistant Director of Student Activities*  
*Kaplan University, M.A.*  
*SUNY Potsdam, B.A.*
- Nicole D. Cianciola, 2016  
*Staff Accountant*  
*SUNY Polytechnic Institute, B.S.*  
*Herkimer County Community College, A.S.*
- Latimah Clark, 2016  
*EOP Counselor*  
*University at Buffalo, B.S., M.S.*
- John Coger, 2016  
*Evening Library Services Supervisor*  
*SUNY Morrisville, A.S.*
- Brenda S. Coogan, 1997  
*Travel Agent*  
*Southeastern Academy Travel Certification*
- Marsha L. Cornelius, 1993  
*Academic Advisor*  
*University of Phoenix, Ed.D.*  
*Binghamton University, B.S., M.A.S.S.*  
*SUNY Morrisville, A.A.S.*  
*State University of New York Chancellor Award, 2007*
- Susan Cornelius, 2014  
*Budget Control Officer*  
*Messiah College, B.S.*  
*Mohawk Valley Community college, A.S.*
- Warren D. Costantine, 1996  
*Print Shop Supervisor*
- Megan Croft, 2015  
*Admissions Advisor*  
*Clarkson University, M.B.A.*  
*SUNY Potsdam, B.S.*
- Brandon J. Croll, 2010  
*Systems Administrator*  
*SUNY Morrisville, A.A.S, B.S.*
- Rochelle A. Crouch ‡\*, 2017  
*Morrisville/Norwich CSTEP Advisor*  
*Utica College, B.S.*
- Patricia M. Davis ‡, 1999  
*Senior Staff Assistant*  
*SUNY Polytechnic Institute, B.B.A., M.S.*  
*SUNY Morrisville, A.A.S.*
- Jeffrey N. Dewan, 2018  
*Admissions Assistant*  
*SUNY Cortland, B.A.*
- Thomas B. Dickinson, 1997  
*Equipment Manager*  
*Denison University, B.A.*  
*SUNY Cortland, B.S.*
- Ryan G. Diehl, 2005  
*Instructional Support Associate, Environmental Sciences*  
*SUNY Cobleskill, B.Tech.*
- Elissa A. Donovan, 2018  
*Enrollment Services Specialist*  
*Indiana University of Pennsylvania, M.A.*  
*Mansfield University, B.S.*
- Kris L. Dourdas, 2016  
*Construction Site Representative*  
*SUNY College of Environmental Science and Forestry, M.P.S.*  
*Columbia College, B.S.*
- Edmund C. Dunn‡, 2017  
*Academic Advisor, Norwich Campus*  
*Binghamton University, M.S.*  
*University at Buffalo, B.A.*
- Danielle Emeny, 2018  
*Financial Aid Counselor*  
*Utica College, B.A.*
- Philip M. Ewing, 2018  
*Construction Site Representative*  
*Niagara County Community College, A.A.S.*
- Norman A. Faiola, 2018  
*Dean of School of Business and Hospitality*  
*Syracuse University, Ph.D.*  
*Cornell University, B.S., M.P.S.*  
*Washtenaw Community College, A.O.S.*
- Jordan Farrar, 2014  
*Assistant Athletic Trainer*  
*State University College at Brockport, B.S.*
- Craig M. Fisher, 2012  
*Environmental Health and Safety Officer*  
*SUNY Empire State College, B.S.*  
*SUNY Morrisville, A.A.S.*
- Curtis M. Fitzpatrick, 2013  
*Head Coach, Football*  
*Ohio University, M.A.*  
*St John Fisher College, B.S.*
- Jared Ford, 2014  
*Instructional Support Assistant, Agricultural Engineering*  
*SUNY Cobleskill, B. Tech.*  
*SUNY Morrisville, A.A.S.*



- Amanda C. Gagliano, 2016  
*Head Coach, Women's Soccer*  
*University of Virginia, B.A.*
- Serafina M. Gagliardi, 2014  
*Instructional Support Assistant, Equine*  
*SUNY Morrisville,, A.A.S., B.S.*
- Kathryn A. Galyon, 2015  
*Instructional Support Assistant, Equine Rehabilitation*  
*SUNY Morrisville,, A.A.S., B.T.*
- Graham Garner, 2016  
*Executive Director of Communications and Marketing*  
*Idaho State University, B.A., MPA*
- Marion E. Gaslin, 2004  
*Bursar, Student Accounts*  
*SUNY Polytechnic Institute, B.B.A, M.S.*  
*SUNY Morrisville,, A.A.S.*
- Jeffrey L. Gay, 1986  
*Assistant Director of Technology Services*  
*SUNY Potsdam, B.A.*  
*State University of New York Chancellor's Award, 2004*
- John H. Giess, 2001  
*Instructional Support Associate, Mechanical Engineering Technology*  
*SUNY Polytechnic Institute, B.S., M.S.*  
*Mohawk Valley Community College, A.O.S.*
- JoAnn Godfrey, 1968  
*Executive Assistant to the President*
- Jonathan D. Godfrey, 2000  
*Telecommunications Administrator*  
*SUNY Morrisville,, A.A.S.*
- Lisa A. Godfrey, 2005  
*Admissions Advisor*  
*Cazenovia College, B.A.*
- Erin M. Goodney, 2016  
*Instructional Support Assistant, Equine (Hunt Seat)*  
*SUNY Cobleskill, B.T.*
- Rita D. Goyette, 1998  
*Director of Student Activities*  
*Indiana University of Pennsylvania, M.A.*  
*Lyndon State College, B.S.*  
*State University of New York Chancellor's Award*  
*for Excellence in Professional Service, 2016*
- Carol Graham, 2013  
*Instructional Support Assistant, Nursing*  
*SUNY Polytechnic Institute, BS, MS*  
*Onondaga Community College, A.A.S.*
- Kyle J. Graves, 2009  
*Coach, Men's Soccer*  
*State University College at Brockport, M.S.*  
*Keuka College, B.S.*
- Dale G. Grey, 2018  
*Instructional Support Assistant, Nursing*  
*Wright State University, M.S.*  
*SUNY Polytechnic Institute, B.S.*
- Paul F. Griffin, 1999  
*Dean, School of Liberal Arts/Associate Provost*  
*University of Wisconsin - Madison, Ph.D.*  
*College of Holy Cross, B.A.*
- John Gunerman, 2016  
*Purchasing Assistant*  
*Syracuse University, M.B.A.*  
*US Naval Academy, B.S.*
- William Hicks, 2016  
*Instructional Support Assistant, Automotive Technology*  
*SUNY Morrisville, B. Tech*
- Jennifer Hilts, 2014  
*HR/Payroll Services Coordinator*  
*SUNY Polytechnic Institute, B.S.*  
*SUNY Morrisville,, A.A.S.*
- Kaylynn E. Iglesias, 2018  
*Director of Admissions Mercy College, M.A.*  
*Hartwick College, B.A.*  
*Herkimer County Community College, A.A.*
- Geoffrey S. Isabelle, 1994  
*Dean of Students*  
*University at Albany, M.S.*  
*SUNY at Oswego, B.A.*  
*SUNY Morrisville,, A.A.S.*
- Sonam Jamtsho, 2017  
*Network Administrator*  
*Murdoch University, M.A.*  
*Madras University, B.S.E.*
- Susan R. Johnston, 2017  
*Director, CSTEP and STEP*  
*Indiana University of Pennsylvania, M.A.*  
*University at Albany, SUNY, B.A.*
- Andrew K. Jones, 2016  
*Instructional Support Assistant, Technology Services*  
*Alfred State College, A.A.S.*
- Jennifer Jones, 2015  
*Instructional Support Assistant, Equine*  
*SUNY Morrisville,, A.A.S., B.S.*
- Kate E. Jones, 2015  
*Instructional Support Assistant, Equine*  
*SUNY Morrisville,, B.T.*
- Paul M. Kearney, 2012  
*Graphic Design Coordinator*  
*Fredonia, B.A.*  
*Mohawk Valley Community College, A.A.S.*

- Theresa R. Kevorkian, 2018  
*Vice President for Institutional Advancement/Executive Director, Morrisville College Foundation*  
*University of Oxford, M.Phil.*  
*Colgate University, B.A.*
- Todd E. Kleinhans, 2007  
*Athletic Trainer Assistant Athletic Director, Sports Medicine/Head Athletic Trainer*  
*Elmira College, B.A.*
- Jennifer L. Koller, 2018  
*Coach, Field Hockey*  
*Hendrix College, B.A.*
- Erin Kovalsky, 2017  
*Library Circulation Coordinator*  
*Binghamton University, B.A.*
- Christine Krause, 2016  
*Assistant Director of Financial Aid*  
*SUNY Morrisville,, A.S.*
- Kevin J. Krogol, 2013  
*Coach, Men's Ice Hockey and Golf*  
*Utica College, B.S.*
- Wade B. Lamb, 2011  
*Instructional Support Associate*  
*SUNY Oswego, B.A.*  
*SUNY Morrisville,, A.A.S.*
- Joseph R. Lansing, 2012  
*Facilities Support Manager*  
*SUNY Cortland, B.A.*
- Stephanie L. Lawhorne, 2001  
*Director of the Reading and Study Skills Center*  
*Radford University, M.A.*  
*Queens University Of Charlotte, B.A.*
- Lindsey M. Lefevre ‡, 2007  
*Norwich Campus Director*  
*Binghamton University,, B.S., M.A.*  
*SUNY Morrisville,, A.A.S.*
- John A. Leva, 2012  
*Instructional Support Assistant, Residential Construction*  
*SUNY Morrisville,, A.A.S.*
- Aaron Lichtenwalter, 2017  
*Residence Hall Director*  
*Bloomsburg University, B.S., M.A.*
- Pamela A. Locke, 2007  
*Director of Accounting Services*  
*Le Moyne College, B.S.*
- Melissa Lomanto, 2014  
*Head Coach, Women's Ice Hockey*  
*St. Lawrence University, M.S.*  
*Utica College, B.A.*
- Erin R. Longo, 2010  
*Associate Registrar*  
*Cazenovia College, B.P.S.*
- Jason B. Longo, 2009  
*Assistant Athletic Director, Event Management*  
*Head Coach, Men's Lacrosse*  
*Le Moyne College, B.S.*
- Andrew P. MacLean, 2007  
*Instructional Support Assistant, Automotive Technology*  
*SUNY Morrisville,, A.A.S.*
- Ginger A. MacRae, 1998  
*Help Desk Coordinator*  
*SUNY Morrisville,, A.S.*
- Sara A. Mansfield, 2006  
*Senior Counselor*  
*SUNY at Oswego, M.S., C.A.S.*  
*Alfred University, B.S.*  
*State University of New York Chancellor's Award 2013*
- Megan E. Marks, 2017  
*Residence Hall Director*  
*Nazareth College, M.S.*  
*Le Moyne College, B.A.*
- Christopher S. Maroney, 2017  
*Director of Facilities Design and Construction*  
*SUNY College of Environmental Science and Forestry, B.S.*
- Timothy M. Matthews, 1997  
*Instructional Support Specialist*  
*Utica College, B.A.*
- John L. Maurine, 2017  
*System Administrator*
- Michael L. Mazza, 1999  
*Assistant Stable Manager*  
*SUNY Morrisville,, A.A.S.*
- Randy Meka, 2016  
*Herdsmen, Dairy*  
*SUNY Cobleskill, A.A.S.*
- Eugenio Mercurio, 2017  
*Communications Specialist*  
*Ball State University, M.A.*  
*Utica College, B.S.*
- Nathan M. Miller III, 2003  
*Instructional Support Assistant, Automotive Technology*  
*SUNY Morrisville,, A.A.S.*
- Brian Mumford, 2018  
*Director of Applied Learning*  
*Hamline University, M.A., Ph.D.*  
*Augsburg College, B.A.*
- Christopher L. Nyberg, 1997  
*Dean, School of Agriculture and Natural Resources*  
*Texas A & M University, Ph.D.*  
*University of Wisconsin-River Falls, B.S.*
- Adam Olinski, 2014  
*Instructional Support Assistant, Horticulture*  
*State University of New York College Of Environmental Science And Forestry, M.S., B.A.*  
*SUNY Delhi, A.A.S.*

- Matthew Polak, 2012  
*Instructional Support Assistant, Automotive Technology*  
*SUNY Morrisville,, A.A.S., B. Tech*
- Derek W. Powers, 1997  
*Coach, Cross Country SUNY Morrisville,, A.S.*
- Margaret Pribulick, 2017  
*Director of Nursing Programs*  
*Binghamton University,, Ph.D., M.S., B.S.N.*  
*Broome Community College, A.A., A.S.*
- Carlos Pulquerio, 2017  
*Interim Assistant Director, CSTEP*  
*Cornell University, B.S.*
- Edward W. Raby, Jr., 2017  
*Assistant Coach, Football*  
*Alfred University, M.B.A.*  
*Alma College, B.A.*
- Amin M. Rashid, 2018  
*Academic Advisor*  
*Ithaca College, M.S.*  
*Purchase College, State University of New York, B.M.*  
*Onondaga Community College, A.A.S.*
- Howard Rice, 2018  
*Instructional Support Assistant, Horticulture*  
*SUNY Morrisville,, B.T.*
- Scott T. Richmond, 2016  
*Lead Web Developer*  
*SUNY Empire State College, B.S.*
- Yue Riesbeck, 2016  
*Academic Advisor*  
*Syracuse University, M.A., M.S.*  
*China University of Geosciences, B.A.*
- Julia Rizzo, 2014  
*Director of Campus-Wide Advising*  
*Indiana University, M.A.*  
*Cornell University, B.S.*
- Barbara A. Roback, 2013  
*Career Development and Planning Officer*  
*University of South Carolina, M.S.*  
*University at Albany, B.A.*
- David E. Rogers, 1999  
*President*  
*Cornell University, M.S., Ph.D.*  
*University of Massachusetts, B.A.*
- Eric A. Rogers, 2014  
*Director of Intramurals and Club Sports*  
*SUNY Cortland, B.S.*  
*SUNY Morrisville,, A.S.*
- Patrick Rotchford, 2014  
*Assistant Head Coach, Football*  
*St. Ambrose University, M.S.*  
*St. John Fisher College, B.S.*
- Christine A. Rudecoff, 2007  
*Director of Libraries*  
*Columbia University, M.A.*  
*University at Albany, M.S.I.S.*  
*University of Michigan, B.A.*
- Lauren Saliba, 2017  
*Web Designer*  
*Alfred State College, B.S.*
- Patricia A. Samson, 2006  
*Senior Counselor*  
*SUNY at Oswego, B.A., M.S.*
- Stephen D. Sanders, 2015  
*Director/Head Trainer Environmental Training Center*
- Megan Sanzo, 2016  
*Residence Hall Director*  
*University of Rochester, M.S.*  
*Cazenovia College, B.S.*
- Correne G. Sawyer Scholefield, 2001  
*Staff Assistant, Environmental Training Center*  
*Onondaga Community College, A.A.S.*
- Casey Schenk, 2015  
*Instructional Support Assistant, Nursing*  
*SUNY Institute of Technology, B.S., M.S.*  
*SUNY Morrisville,, A.A.S.*
- Scott D. Seymour, 1997  
*Stable Manager*  
*Cornell University, B.S.*  
*SUNY Morrisville,, A.A.S.*
- Murray D. Shackelford, Jr., 2004  
*Instructional Support Associate, Automotive Technology*  
*SUNY Morrisville,, A.A.S.*
- Erin M. Shantal, 2004  
*Equine Breeding Manager*  
*SUNY Morrisville,, A.A.S., B.Tech.*
- Starley Shelton, 2015  
*Computer Help Desk Assistant*  
*American InterContinental University Online, B.I.T.*  
*SUNY Morrisville,, A.A.S.*
- Toyia L. Sims, 2010  
*Human Resource Associate*  
*Columbia College, B.A.*
- Erin Skaradek, 2015  
*Coach, Women's Basketball*  
*Elmira College, B.S.*
- Roberta H. Sloan, 2003  
*Interim Chief Information Officer*  
*Capella University, Ph.D.*  
*University of Maryland, M.G.A.*  
*U.S. Naval Academy at Annapolis, B.S.*  
*SUNY Morrisville, Distinguished Faculty Award, 2015*

- Joseph A. Smith, 2009  
*Coach, Men's Basketball*  
*Hamilton College, B.A.*
- Asiana Smith, 2017  
*Residence Hall Director*  
*LeMoyne College, B.A.*
- Barry L. Spriggs, 2016  
*Provost*  
*South Dakota State University, Ph.D.*  
*Shippensburg University, B.S., M.S.*
- David Stablein, 2013  
*Assistant Director, STEP*  
*Syracuse University, B.A.*
- Brittany Stroop, 2015  
*Head Coach, Women's Softball*  
*Mount Vernon Nazarene University, B.S., M.A.*
- David A. Symonds,\* 1996  
*Director of Accessibility Services*  
*SUNY Cortland, M.S. Ed.*  
*SUNY Geneseo, B.S.Ed.*  
*SUNY Cobleskill, A.A.S.*  
*State University of New York Chancellor's Award, 2010*
- Ryan M. Tabolt, 2004  
*Instructional Support Assistant, Automotive Technology*  
*SUNY Morrisville,, A.O.S.*
- Andrew J. Tanner, 2002  
*Instructional Support Assistant, Biology and Chemistry*  
*Alfred University, B.A.*  
*SUNY Morrisville,, A.A.S.*
- Aryn A. Tassone-Carnaya, 2014  
*Development Assistant*  
*State University of New York at Plattsburgh, B.S.*  
*SUNY Cobleskill, A.A.S.*
- Mary E. Taylor, 2002  
*Equine Institute Business Coordinator*  
*SUNY Morrisville,, A.A.S.*
- Brian S. Tefft,‡ 2005  
*Computer Services Technician/Library Assistant*  
*SUNY Morrisville,, A.A.S.*  
*State University of New York Chancellor's Award 2015*
- Devyn Thomas, 2015  
*Admissions Transfer Coordinator*  
*SUNY Morrisville,, B.B.A.*
- Brandy L. Thurston, 2001  
*Assistant Athletic Director/Sports Information*  
*Director SUNY Cortland, M.S.*  
*Le Moyne College, B.S.*  
*SUNY Morrisville,, A.S.*
- Michael S. Tianello Jr., 2017  
*Network Administrator*  
*SUNY Polytechnic Institute, B.S.*  
*SUNY Morrisville,, A.A.S.*
- Franci R. Valenzano, 1998  
*Assistant Director of Communications and Marketing*  
*Utica College, B.A.*  
*SUNY Morrisville,, A.A.S.*
- Frederick R. Wallace, 2012  
*Coach, Volleyball*  
*State University College at Brockport, B.S., M.S.*
- Brian A. Wallenhorst, 2012  
*Admissions Advisor*  
*SUNY Delhi, B.B.A.*
- Melissa J. Ward, 2007  
*Assistant Director of Admissions*  
*Stony Brook, MS*  
*SUNY at Oswego, B.A.*  
*SUNY Morrisville,, A.A.S.*
- Tyler Wheelock, 2016  
*EOP Counselor*  
*Nazareth College, M.S.Ed.*  
*St. John Fisher College, B.S.*
- Marian D. Whitney, 1994  
*Assistant to the President for Institutional Research and Effectiveness*  
*Keuka College, M.S.*  
*University of Missouri, B.S.Ed.*
- Stacy L. Wilcox, 2009  
*Educational Advocate Liberty Partnership*  
*Cazenovia College, B.S.*
- Adara C. Wilczak, 2014  
*Lead Programmer/Analyst*  
*SUNY Polytechnic Institute, B.S.*  
*Rochester Institute of Technology, B.S.*
- Shannon L. Wiley, 2015  
*Assistant to the Dean of Students*  
*SUNY Morrisville,, A.S., B.S.*
- Kathleen M. Williams, 1985  
*Lead Programmer Analyst*  
*SUNY Cobleskill, A.A.S.*
- Lakeva C. Williams, 2016  
*Financial Aid Counselor*  
*SUNY Morrisville,, A.A.S.; B. Tech.*
- Nicole D. Williams, 2016  
*Admissions Advisor (NYC Satellite Recruiter)*  
*SUNY Morrisville,, B.S.*
- Cole F. Wimmer, 2010  
*Assistant Stable Manager*  
*SUNY Morrisville,, A.A.S., B.Tech.*
- Yunkai Xu, 2018  
*Instructional Designer*  
*Syracuse University, M.S.*  
*Hefei University of Technology, B.A.*
- Jason P. Zbock, 2014  
*Associate Provost of Assessment, Planning and Educational Development*  
*University at Buffalo, B.A., M.Ed.*



# FACULTY

\* These faculty members teach at both main and Norwich campuses.

‡ These faculty members teach at the Norwich campus.

Ashley Adams, 2015

*Assistant Professor, Dairy Science*  
*Colorado State University, PhD, M.S.*  
*University of Maine, B.S.*

Daniel P. Akers, 2007

*Assistant Professor, Automotive Technology*  
*SUNY Polytechnic Institute, M.S.*  
*SUNY Morrisville, A.A.S.*

Ronald F. Alexander, 2006

*Associate Professor, Automotive Technology*  
*SUNY at Oswego, M.S., B.S.*  
*SUNY Morrisville,, A.A.S.*

Steven J. Armstrong, 2013

*Assistant Professor, Criminal Justice*  
*Marist College, M.P.A.*  
*Excelsior College, B.S.*

Clare E. Armstrong-Seward,\* 2007

*Associate Professor, Criminal Justice*  
*California Coast University, D.B.A.*  
*Binghamton University, M.A.*  
*SUNY at New Paltz, B.S.*  
*Dutchess Community College, A.A.S.*  
*State University of New York Chancellor's Award 2013*  
*SUNY Morrisville, Distinguished Faculty Award, 2017*

Charles J. Ax III, 2010

*Associate Professor, Agricultural Engineering/Diesel Technology*  
*SUNY Potsdam, M.S.*  
*Pennsylvania State University, B.S.*  
*SUNY Morrisville,, A.A.S.*

Frederick W. Bach, 1981

*Professor, Agricultural Engineering*  
*Cornell University, B.S., M.P.S.*  
*SUNY Morrisville,, A.A.S.*  
*Morrisville State College Distinguished Faculty Award, 2007*

Benjamin D. Ballard, 2007

*Associate Professor, Renewable Energy Training Center*  
*SUNY College of Environmental Science*  
*and Forestry, B.S., M.S., Ph.D.*  
*Syracuse University, M.S.*

Donielle Balstra, 2014

*Assistant Professor, Criminal Justice*  
*Florida State University, M.S.*  
*Gettysburg College, B.A.*

Mehmet Baysal, 2014

*Assistant Professor, Mechanical Engineering Technology*  
*Syracuse University, Ph.D.*  
*Cukurova University, M.S.*

Kerry J. Beadle, 1997

*Associate Professor, Food Service Administration*

*Rochester Institute of Technology, M.S.*

*Syracuse University, B.S.*

*Certified Executive Chef Certified Food Executive*

*SUNY Morrisville Distinguished Faculty Award, 2004*

Robert R. Beebe, 2004

*Assistant Professor, Accounting*  
*Johnson & Wales University, B.S., M.A.T., A.B.D.*

Kimberly S. Berge, 1994

*Associate Professor, Mathematics*  
*SUNY at Oswego, B.S., M.S.*

Maggie Bintz, 2012

*Assistant Professor, Human Performance and Health Promotion*  
*Montclair State University, M.A.*  
*University of Delaware, B.A.*

Mark D. Blakeslee\*, 2013

*Assistant Professor, Criminal Justice*  
*University at Albany, M.A.*  
*Binghamton University, B.S., M.A.*  
*Broome Community College, A.A.S.*

Silvia Bliss, 2009

*Associate Professor, Humanities*  
*Syracuse University, M.A.*  
*Catholic University of Peru, B.A.*

Sharon Y. Boyce, 2007

*Associate Professor, Business Administration*  
*Capella University, Ph.D.*  
*Fontbonne University, M.B.A.*  
*Missouri Valley College, B.A.*

Devon M. Branca, 2009

*Associate Professor, Humanities*  
*Binghamton University,, M.A., Ph.D.*  
*SUNY Potsdam, B.A.*  
*Monroe Community College, A.A.*

Jennifer Braun, 2012

*Assistant Professor, Mathematics*  
*SUNY Polytechnic Institute, B.A.*  
*University of Phoenix, M.A.*

Birgit A. Bryant, 2012

*Associate Professor, Social Science*  
*Syracuse University, M.S., Ph.D.*  
*St. Lawrence University, B.S.*

Paul A. Buckingham, 2006

*Associate Professor, Social Science*  
*Bowling Green State University, M.A., Ph.D.*  
*Adrian College, B.A.*

Julanne Burton, 2015 ‡

*Assistant Professor, Social Science*  
*University at Albany, M.S.W., Ph.D.*  
*Syracuse University, B.S., M.A.*

Susan E. Caraher, 1989

*Associate Professor, Nursing*  
*Binghamton University,, M.S.*  
*SUNY Polytechnic Institute, B.S.*  
*St. Elizabeth's School of Nursing, Diploma*

- Sharon L. Cardinal, 2013  
*Assistant Professor, Human Performance and Health Promotion*  
*Ithaca College, M.S.*  
*Griffith University, B.S.*
- William A. Cesare, Jr., 2015  
*Assistant Professor, Social Science*  
*University of Sarasota, Ed.D*  
*State University of New York at Oswego, M.S.*  
*Syracuse University, B.A.*
- Tammy L. Chandler, 2017  
*Assistant Professor, Nursing*  
*SUNY Delhi, M.S., B.S.N.*  
*SUNY Morrisville, A.A.S.*
- Merrill B. Charles, 2013  
*Associate Professor, Journalism*  
*Syracuse University, M.S., B.S.*
- Julie Corey, 2016  
*Assistant Professor, Equine*  
*State University of New York at Oswego, M.S.*  
*SUNY Morrisville, A.A.S., B.T.*  
*SUNY Canton, A.A.S.*
- Shirley A. Crawford, 1973  
*Distinguished Teaching Professor, Biology*  
*SUNY College of Environmental Science and Forestry, Ph.D.*  
*Rollins College, M.A.T.*  
*Pennsylvania State University, B.S.*  
*NISOD Award for Excellence in Teaching*  
*Who's Who Among America's Teachers, 1998, 2002, 2006*  
*Distinguished Teaching Professor, Biological Science*  
*State University of New York Chancellor's Award*  
*for Excellence in Teaching, 1981*  
*State University of New York Chancellor's Award for*  
*Distinguished Teaching Professor Award, 1991*  
*SUNY Morrisville Distinguished Faculty Award, 1990*
- Patrick J. Cronn, 2003  
*Associate Professor, Computer Information Technology*  
*SUNY Polytechnic Institute M.S.*  
*Rochester Institute of Technology, B.S.*  
*SUNY Morrisville, A.A.S.*
- Robert R. Cross III, 2002  
*Associate Professor, Diesel/Agricultural Engineering*  
*Cornell University, M.A.T.*  
*SUNY Cobleskill, B.Tech.*  
*Fredonia, B.A.*
- Tiffany R. Day, 2006  
*Associate Professor, Equine*  
*Texas A & M University, M.S., Ph.D.*  
*University of Wisconsin, B.A.*
- William E. Day, 2006  
*Associate Professor, Equine*  
*Texas A&M University, B.S., M.S., Ph.D.*
- Gregg A. DeLuca, 2016  
*Assistant Professor, Criminal Justice*  
*American Military University, M.A.*  
*SUNY Excelsior College, A.A.S., B.S.*
- Eric H. Diefenbacher, 2014 ‡  
*Assistant Professor, Biology*  
*Marshall University, M.S.*  
*Hartwick College, B.A.*
- Melinda E. Doyle, 2008  
*Associate Professor, Office Technology*  
*Syracuse University, M.B.A.*  
*SUNY Oneonta, B.S.*  
*SUNY Cobleskill, A.S.*
- Robert A. Dushay, 2001  
*Professor, Social Science*  
*Columbia University, M.A., M.Phil., Ph.D.*  
*Cornell University, A.B.*  
*SUNY Morrisville Distinguished Faculty Award, 2009*
- Aron J. Efimenko, 2007  
*Associate Professor, Humanities Southern*  
*Illinois University, M.F.A.*  
*State University College at Brockport, B.S.*  
*Tompkins Cortland Community College, A.A.*
- Adam Eisenberg, 2017  
*Assistant Professor, Journalism*  
*University of South Florida, M.A.*  
*University of Central Florida, B.A.*
- Erin E. Eldredge, 2004  
*Assistant Professor, Equine Science*  
*SUNY at Oswego, M.S.*  
*SUNY Morrisville, B.Tech., A.A.S.*
- Mustafa Elfituri, 2017  
*Assistant Professor, Computer Information Technology*  
*New Mexico State University, Ph.D., M.S.*  
*Coventry University, M.S.*  
*Tripoli University, B.S.*
- Patricia L. Elko, 1985  
*Professor, Mathematics*  
*Syracuse University, M.S.*  
*University at Albany, B.S.*  
*Who's Who Among America's Teachers, 1999, 2002*  
*NISOD Award for Excellence in Teaching, 1993*  
*SUNY Morrisville Distinguished Faculty Award, 2012*
- John D. Felton, 2009  
*Assistant Professor, Hospitality*  
*Johnson & Wales University, Ed.D., M.B.A.*  
*SUNY at Plattsburgh, B.S.*  
*The Culinary Institute of America, A.O.S.*
- Diana Fitzgerald, 2015  
*Assistant Professor, Nursing*  
*State University of New York at Stony Brook, M.S.*  
*State University of New York Upstate Medical University, B.S.*
- Mario Freamat, 2014  
*Assistant Professor, Physics*  
*University of Kentucky, Ph.D., M.S.*  
*University of Bucharest, B.S.*

- Victoria T. Fry, 1983  
*Professor, Social Science*  
*Syracuse University, Ph.D.*  
*University of Texas at El Paso, M.Ed.*  
*Utica College, B.A.*  
*State University of New York Chancellor's Award, 1991*  
*State University of New York Chancellor's Award, 2014*
- Janet F. Furco, 2008  
*Associate Professor, Nursing*  
*Regis University, M.S.*  
*Keuka College, B.S.*  
*SUNY Morrisville, A.A.S.*
- Rene C. Gabriel, 2015  
*Assistant Professor, Travel and Tourism Rochester*  
*Institute of Technology, M.S., B.S.*  
*Monroe Community College, A.A.S.*
- Wyatt J. Galusky, 2003  
*Professor, Humanities*  
*Virginia Tech University, Ph.D.*  
*University of North Texas, M.A.*  
*Texas A & M University, B.S.*  
*State University of New York Chancellor's Award*  
*for Excellence in Teaching, 2016*
- Timothy W. Gerken, 2006  
*Assistant Professor, Humanities*  
*Fordham University, Ph.D.*  
*Southern Connecticut State University, M.S.*  
*Brooklyn College, M.F.A.*  
*Clarion University of Pennsylvania, B.S.*  
*State University of New York Chancellor's Award 2015*
- Johaun T. Jackson, 2017  
*Assistant Professor, Nursing*  
*LeMoyne College, B.S., M.S.*
- Jennifer Gilbert Jenkins, 2015  
*Assistant Professor, Soil Science*  
*University of Delaware, Ph.D.*  
*University of Connecticut, M.S.*  
*University at Buffalo, B.S.*
- Raymond S. Grabowski II, 2006  
*Associate Professor, Automotive Technology*  
*Le Moyne College, M.B.A.*  
*SUNY at Oswego, B.S.*  
*SUNY Morrisville, A.A.S.*
- Michael Gridley, 2016  
*Assistant Professor, Wood/Residential Construction*  
*University of Central Missouri, M.S.*  
*National Labor College, B.A.*
- Melanie E. Groshans, 2016  
*Assistant Professor, Nursing*  
*Sacred Heart University, M.S.*  
*Utica College, B.S.*  
*SUNY Cortland, B.S.*
- Arthur I. Haber, 1988  
*Professor, Chemistry*  
*University of Illinois at Champaign-Urbana, Ph.D.*  
*Polytechnic Institute of Brooklyn, B.S., M.S.*
- J. Rebecca Hargrave, 2012  
*Assistant Professor, Environmental Sciences*  
*University of Minnesota, Twin Cities, M.S.*  
*Pennsylvania State University, University Park, B.S.*
- Corey Hayes, 2012  
*Assistant Professor, Agricultural Business*  
*SUNY at Oswego, M.S.*  
*SUNY Morrisville, B.S.*
- Matthew L. Heckerman, 2002  
*Associate Professor, Automotive Technology*  
*SUNY Morrisville, A.A.S., B. Tech.*
- Kelly Hennigan, 2002  
*Associate Professor, Plant Sciences*  
*Cornell University, B.S., M.S.*  
*Sullivan County Community College, A.A.S.*  
*State University of New York Chancellor's Award 2017*
- Antonie Hiemer,\* 2009  
*Associate Professor, Nursing*  
*Northcentral University, Ph.D.*  
*SUNY Polytechnic Institute, B.S., M.S., C.A.S.*  
*SUNY Morrisville, A.S., A.A.S.*
- Stephen L. Hinkle, 2001  
*Professor, Humanities*  
*University of South Dakota, M.F.A.*  
*Augustana College, B.A.*  
*State University of New York Chancellor's Award 2017*
- Philip V. Hofmeyer, 2008  
*Associate Professor, Renewable Energy Training Center*  
*University of Maine, Ph.D.*  
*SUNY College of Environmental Science and Forestry, B.S., M.S.*  
*SUNY Morrisville, A.A.S.*  
*State University of New York Chancellor's Award 2015*
- J. Thomas Hogle, 1999  
*Professor, Social Science*  
*University of Colorado, Ph.D.*  
*SUNY at Plattsburgh, M.A.*  
*SUNY at Oswego, B.A.*
- Margaret A. Hoose,‡ 2006  
*Associate Professor, Social Science*  
*College of St. Rose, M.S.*  
*SUNY Oneonta, B.S.*  
*SUNY Cobleskill, A.A.S.*
- Eugene Horst, 2015  
*Assistant Professor, Mechanical Engineering Technology*  
*Binghamton University, M.S.*  
*State University of New York Institute of Technology, B.S.*
- Marti C. Howell-Collins, 2012  
*Assistant Professor, Liberal Arts*  
*Syracuse University, Ph.D.*  
*University of Nevada-Reno, B.A., M.A.*
- Chad Jaconski, 2016  
*Assistant Professor, Biology/Chemistry*  
*SUNY Empire State College, M.A.T.*  
*Cornell University, B.S.*

- Graham C. Jones, 2004  
Associate Professor, Automotive Technology  
University at Albany, M.S.  
SUNY at Oswego, B.S.  
SUNY Morrisville, A.A.S.
- Kristen L. Kane, 2008  
Associate Professor, Human Performance and Health Promotion  
Florida State University, M.S., Ph.D.  
SUNY at Oswego, B.A.
- Brendan T. Kelly, 2007  
Associate Professor, Forestry and Renewable Resources  
University of New Hampshire, M.S.  
SUNY College of Environmental Science and Forestry, B.S.  
SUNY Morrisville,, A.A.S.  
NH Fire Standards & Training Commission:  
Firefighter I (NFPA 1001), 1992  
Society of American Foresters: Certified Forester
- Brian J. Kelly Jr., AIA, 1993  
Professor, Architectural Studies and Design  
University at Buffalo, B.P.S., M. Arch.  
SUNY Morrisville,, A.A.S.  
Registered Architect – New York  
National Council of Architectural Registration  
Boards (NCARB) Certified
- Aida A. Khalil, 2001  
Professor, Horticulture  
SUNY College of Environmental Science & Forestry, M.L.A.  
Syracuse University, B.A.
- Joseph D. Kidd, 1997  
Associate Professor, Ford Motor Company ASSET Program  
SUNY Empire State College, M.A.L.S., M.S.  
SUNY at Oswego, B.S.  
Herkimer County Community College, A.A.S.  
Ford Certification  
N.Y.S.D.M.V. Certification  
ASE Certified Master Automobile Technician  
Advanced Performance ASE
- David Killian, 2016  
Assistant Professor, Residential Construction  
SUNY at Oswego, B.S., M.S.  
Onondaga Community College, A.A.S.
- Karin C. Kimber, 2002  
Associate Professor, Mathematics  
Binghamton University, M.A.  
Hartwick College, B.A.
- Thomas W. Kimber, 2001  
Assistant Professor, Mathematics  
Binghamton University,, M.A., Ph.D.  
State University College, B.A.
- Stephen R. Klingaman, 2001  
Professor, Computer Information Technology  
University at Albany, M.S.  
Syracuse University, B.A., M.S.
- Alan M. Levinsohn, 1985  
Associate Professor, Social Science  
Colgate University, M.A.T.  
SUNY at Plattsburgh, B.A.  
State University of New York Chancellor's Award, 1998
- David Lichoro, 2015  
Assistant Professor, Computer Information Technology  
Iowa State University, B.S., M.S., Ph.D.
- Elisa J. Livengood, 2015  
Assistant Professor, Aquaculture and Aquatic Sciences  
University of Florida, M.S.  
East Carolina University, B.S.
- Andres G. Lopez, 1990  
Professor, Humanities  
SUNY at Stony Brook, B.A., M.A., Ph.D.
- Shane T. Lotz, 2005  
Assistant Professor, Biology  
New York Chiropractic College, D.C.  
SUNY Cortland, B.S.  
C.C.S.P. Certification  
C.S.C.S. Certification
- Michael J. Loudis Jr., 1993  
Assistant Professor, Physics  
Syracuse University, M.S.  
Polytechnic Institute of New York, B.S.
- Anthony Lupino, 2012  
Assistant Professor, Hospitality  
Rochester Institute of Technology, M.S.  
SUNY Morrisville, B.B.A.
- Loren A. Maki, 2003  
Associate Professor, Automotive Technology  
SUNY Polytechnic Institute, M.S.  
Cornell University, B.S.  
SUNY Morrisville,, A.A.S.  
ASE CMAT & L1 Certification NYS DMV Inspector Certification
- Richard P. Marcoux, 2006  
Associate Professor, Computer Information Technology  
Nova Southeastern University, Ph.D.  
Rochester Institute of Technology, M.S.  
American University, B.S.
- Sonia M. Marris, 2011  
Associate Professor, Nursing  
SUNY Polytechnic Institute B.S., M.S.  
SUNY Morrisville,, A.A.S.
- Sheila A. Marshman,\* 2000  
Associate Professor, Agricultural Business  
Capella University, Ph.D.  
Le Moyne College, M.B.A.  
Johnson State College, B.A.  
State University of New York Chancellor's Award  
for Excellence in Faculty Service, 2016
- Brian J. Matt, 2014  
Assistant Professor, Nursing  
Utica College, B.S., M.S.  
St. Elizabeth's College of Nursing, A.A.S.
- Thomas J. McElmurry, 2018  
Assistant Professor, Physics  
University of Illinois at Urbana-Champaign, Ph.D.  
Bethel College, B.S., B.A.



- Mark McPike, 2015  
*Assistant Professor, Chemistry*  
*Syracuse University, Ph.D.*  
*SUNY Oneonta, B.S.*
- Robert Milano, P.E., 1995  
*Associate Professor, Engineering Science*  
*University of Connecticut, Ph.D.*  
*Pennsylvania State University, M.S.*  
*University at Buffalo, B.S.*  
*SUNY at Farmingdale, A.S.*
- C. Steven Mooney, 2009  
*Associate Professor, Dairy Science*  
*Michigan State University, M.S., Ph.D.*  
*Cornell University, B.S.*
- Erin Morgan-Paugh, 2012  
*Assistant Professor, Equine*  
*Cornell University, B.S, DVM*
- Alfred P. Muss II, 2001  
*Professor, Business Administration*  
*Binghamton University, B.S., M.B.A.*  
*Broome Community College, A.S.*  
*State University of New York Chancellor's Award, 2011*
- Joan A. Nicholson, 2008  
*Associate Professor, Nutrition and Dietetics*  
*Syracuse University, B.A., M.S., C.A.S.*
- Nga Nguyen, 2015  
*Assistant Professor, Social Science*  
*Rutgers University, M.A., Ph.D.*  
*Foreign Trade University, B.A., M.A.*
- Michelle Nyberg, 2016  
*Assistant Professor, Equine*  
*Texas A&M University, M.S.*  
*University of Wisconsin, B.S.*
- Dean P. O'Grady, 1995  
*Assistant Professor, Biology*  
*SUNY College of Environmental Science and Forestry, M.S.*  
*Alfred University, B.S.*
- Paul A. O'Neil, 1998  
*Associate Professor, Mathematics*  
*Clarkson University, M.S.*  
*SUNY Potsdam, B.A.*
- Brenda Oursler White, 2000  
*Associate Professor, Mathematics*  
*Syracuse University, B.A., M.S.*  
*SUNY Morrisville, A.A.S.*
- Patricia A. Payette, 2001  
*Associate Professor, Office Administration/Medical Office Administration*  
*SUNY at Oswego, B.A., M.A.*  
*SUNY Canton, A.A.S.*
- Kristen Peck-Sanford, 2016  
*Assistant Professor, Nursing*  
*SUNY Polytechnic Institute, B.S., M.S.*  
*St. Elizabeth's School of Nursing, A.S.*  
*Mohawk Valley Community College, A.S.*
- Brittany Peo, 2016  
*Instructor, Massage Therapy*  
*Utica College, B.S.*
- Laura M. Pierie, 2014  
*Assistant Professor, Teacher Education Transfer Program*  
*SUNY Potsdam College, B.A., M.A.*
- Thomas A. Pilewski, 2007  
*Associate Professor, Business Administration*  
*SUNY at Oswego, M.B.A.*  
*John Carroll University, B.S.*
- Roxanna Pisiak, 1993  
*Professor, Humanities*  
*University of Massachusetts, Ph.D.*  
*Columbia University, M.A.*  
*Boston University, B.A.*  
*State University of New York Chancellor's Award, 2009*  
*SUNY Morrisville, Distinguished Faculty Award, 2005*
- Stephanie A. Preston, 2018  
*Assistant Professor, Equine*  
*University of Florida, Ph.D.*  
*Texas A&M University, M.S., B.S.*
- Alessandro Rendina, 2017  
*Assistant Professor, Nursing*  
*Wilkes University, M.S.*
- Kurt E. Reymers, 2001  
*Professor, Social Science*  
*University at Buffalo, M.A., Ph.D.*  
*SUNY Potsdam, B.A.*  
*State University of New York Chancellor's Award 2013*
- Angela M. Rhodes, 2010  
*Associate Librarian*  
*Syracuse University, M.S.L.I.S.*  
*University of South Carolina, B.S.*  
*State University of New York Chancellor's Award 2017*
- Jan C. Rogers, 1995  
*Associate Professor, Biology*  
*Syracuse University, M.S.*  
*M.T. (A.S.C.P.) Certification*  
*University of Massachusetts at Amherst, B.S.*
- Jessica L. Sarauer, 2018  
*Assistant Professor, Environmental Technology and Renewable Resources*  
*University of Idaho College of Natural Resources, Ph.D.*  
*Bemidji State University, M.S.*  
*Northland College, B.S.*
- Adam Saunders, 2013  
*Assistant Librarian*  
*University at Buffalo, M.L.S.*  
*SUNY Geneseo, B.A.*
- Christopher M. Scalzo, 2001  
*Associate Professor, Business Administration*  
*University of Phoenix, D.B.A.*  
*St. John Fisher College, M.B.A.*  
*State University College at Brockport, B.S.*

- John W. Scutt, 1994  
*Associate Professor, Automotive Technology*  
*SUNY at Oswego, B.S., M.S.*  
*SUNY Morrisville, A.A.S.*  
*A.S.E. Certification*  
*G.M. Certification Ford Certification*  
*N.Y.S. D.M.V. Certification*
- Walid H. Shayya, 2000  
*Professor, Natural Resources Engineering*  
*Michigan State University, Ph.D.*  
*American University of Beirut, B.S., M.S.*  
*State University of New York Chancellor's Award, 2007*  
*SUNY Morrisville, Distinguished Faculty Award, 2016*
- Kim S. Smith,\* 2006  
*Assistant Professor, Nursing*  
*SUNY Polytechnic Institute, M.S.*  
*Keuka College, B.S.*  
*SUNY Morrisville,, A.A.S.*
- William S. Snyder, 1993  
*Professor, Natural Resources Conservation*  
*Ohio University, M.Ed.*  
*The Ohio State University, B.S.*  
*State University of New York Chancellor's Award, 2010*  
*SUNY Morrisville, Distinguished Faculty Award, 2014*
- David S. Soucy, 1983  
*Associate Professor, Horticulture*  
*Cornell University, B.S., M.A.T.*  
*SUNY Cobleskill, A.A.S.*
- Lisa M. Spagnoli, 2016  
*Assistant Professor, Nursing Keuka College, M.S.*  
*Roberts and Wesleyan College, B.S.*  
*Delaware County Community College at Chester County Hospital, A.S.*
- Bonnie L. St. Hilaire, 2008  
*Associate Professor, Nutrition and Dietetics*  
*SUNY Empire State College, M.A.*  
*Rochester Institute of Technology, B.S.*
- Jane E. Stephenson, 2013  
*Assistant Professor Nursing, 2013*  
*SUNY Polytechnic Institute, B.S., M.S.*
- Judith A. Sullivan, 2002  
*Associate Professor, Business Administration*  
*SUNY Polytechnic Institute, M.S.*  
*Utica College, B.S.*
- Norma J. Swartout, 2009  
*Associate Professor, Nursing*  
*University Of Phoenix, BS, MS*  
*Mohawk Valley Community College, AAS*
- Gregory W. Sydoriw, 2006  
*Associate Professor, Humanities*  
*SUNY at Binghamton, M.A. SUNY Oneonta, B.S.*  
*Mohawk Valley Community College, A.S.*
- Diane G. Tice, 1998  
*Professor, Biology*  
*Health Science Center at Syracuse, B.S., M.S., Ph.D.*  
*M.T. (A.S.C.P.) Certification Syracuse University, B.S.*  
*SUNY Morrisville, Distinguished Faculty Award, 2006*
- Susan K. Trueworthy, 2014  
*Assistant Professor, Nursing*  
*State University of New York Institute of Technology, M.S.*  
*State University College at Brockport, B.S.N.*  
*Cazenovia College, A.S.*
- Phyllis K. Tucker, 1998  
*Professor, Business Administration*  
*SUNY Polytechnic Institute, M.S.*  
*Hartwick College, B.S.*
- Linda F. Turner, 1999  
*Associate Professor, Business Administration*  
*University of Phoenix, D.B.A*  
*Old Dominion University, M.B.A.*  
*University of Texas, B.B.A.*  
*Associate Professor, Computer and Information Technology*
- William S. Vair, 2009  
*Instructor, Automotive Technology*  
*SUNY Morrisville,, A.A.S., B.T.*
- Crystal M. Varlaro, 2016  
*Assistant Professor, Mathematics*  
*SUNY Potsdam, M.S.T*  
*Utica College, B.A.*
- Mary Stella Van Waes, 2007  
*Associate Professor, Mathematics*  
*Syracuse University, M.S.*  
*Utica College, B.A.*
- James Verity, 2015  
*Assistant Professor, Computer Information Technology*  
*University of Maryland University College, M.S.*  
*SUNY Cortland, B.A.*
- Paul A. Vosteen, 2008  
*Assistant Professor, Accounting*  
*Western New England College of Law, J.D.*  
*University at Albany, B.S.*
- Evelyn Voura, 2016  
*Assistant Professor, Biological Sciences*  
*University of Toronto, M.S., Ph.D.*  
*University of Guelph, B.S.*
- Mark R. Whitney, 1997  
*Professor, Humanities University of Wyoming, M.A.*  
*Colorado State University, B.A.*  
*State University of New York Chancellor's Award, 2013*
- Gilbert M. Wistrup, 2000  
*Associate Professor, Automotive Technology*  
*SUNY Morrisville,, A.A.S.*
- John H. Zaspel, 2018  
*Assistant Professor, Criminal Justice*  
*New Jersey City University, M.S.*  
*Indiana University of Pennsylvania, B.A.*
- Laurie A. Zbock, 2007  
*Associate Professor, Massage Therapy*  
*Utica College, M.S., B.A.*  
*SUNY Morrisville,, A.A.S.*

## SYRACUSE EDUCATIONAL OPPORTUNITY CENTER

The Syracuse Educational Opportunity Center was established in February 1969 by the State University of New York. The program was then known as SEEK (Search for Education, Elevation, and Knowledge) and was operated through a network of Cooperative College Centers. In 1973 the name was changed to Educational Opportunity center and administration was assumed by SUNY Morrisville,. During its history the EOC has grown in the number of students served and in the variety of programs offered. Today they offer nine major programs as well as employment services and computer access. Their mission remains the same: to provide qualified and motivated individuals with valuable education and career resources.

### Syracuse Educational Opportunity Center Staff

Elizabeth A. Allen, 2001

*Director of Student Affairs*  
*SUNY at Oswego, B.A., M.S.Ed.*  
*Central City Business Institute, A.O.S.*

J.Carlos Cervantes, 2016

*Director of Student Services*  
*U.S. Naval War College, M.A.*  
*Webster University, M.A.*  
*Cal-Poly Pomona, B.A.*  
*Mount San Antonio College, A.S.*

Marlena A. Daher-Rahman, 1996

*Associate Director of Community Engagement*  
*Syracuse University, M.S.*  
*Concordia University, B.A.*

Cynthia A. Doss, 1998

*Assistant Director, Information and Learning Technology*  
*Buffalo State, M.S.*  
*Syracuse University, B.A.*

Gregory P. Gilmore, 2006

*Data Manager*

Phillip R. Hamilton, IV, 2008

*College Connections Initiative Coordinator*  
*Cazenovia College, B.S.*

Carol A. Hill, 2012

*Director of Workforce Development*  
*SUNY Geneseo, B.S.*

Therese E. Hogle, 2007

*Staff Assistant, Career Placement*  
*California State University, B.S.*  
*Onondaga Community College, A.S.*

LaVena L. Jones, 2011

*Staff Assistant*  
*SUNY Polytechnic Institute, B.P.S.*

Jeffrey J. Miller, 2016

*ATTAIN Lab Coordinator*  
*SUNY Oswego, M.S.*  
*Boston University, B.S.*

Christopher Montgomery, 2015

*Staff Assistant*  
*SUNY Morrisville, A.A.*

Timothy C. Penix, 1998

*Vice President of the Syracuse EOC*  
*SUNY at Plattsburgh, B.S., M.A.*

Joanne T. Perez, 2002

*Counselor*  
*Binghamton University, B.A.*  
*Buffalo State, M.S.*

Tracy S. Reid, 2013

*Tutoring Lab Coordinator*  
*Le Moyne College, B.S.*

Timothy J. Sullivan, 2012

*Staff Assistant*  
*State University College at Brockport, B.S.*  
*SUNY Niagara, A.A.S.*

Amanda Wall, 2003

*ATTAIN Lab Coordinator*  
*St. Lawrence University, B.S.*

Christopher F. Young, 1983

*Director, Business Affairs*  
*Chapman College, M.B.A.*  
*Le Moyne College, B.S.*

Courtney A. Zaryski, 2004

*Deputy Director of Student Services*  
*Binghamton University, M.A.*  
*SUNY at Oswego, B.A.*

## Syracuse Educational Opportunity Center Faculty

Sharon G. Hochstein, 1997

*Instructor, English as a Second Language*  
*SUNY at Cortland, M.A.*  
*Syracuse University, B.*

Amy L. Kozachuk, 2013

*Instructor*  
*Syracuse University, M.S.Ed.*

Connie W. Link, 1997

*Instructor*  
*SUNY at Oswego, B.A., M.S.*

Michelle Monsour, 2012

*Instructor*  
*Syracuse University, M.S.*  
*University of Fairfield, B.A.*

## Morrisville Auxiliary Corporation

Joanna Baker, 2005

*Director of Housing and Sustainability*  
*SUNY Plattsburgh, B.S.*

Jennifer J. Bowden, 2014  
*Executive Director*  
*SUNY Cortland, B.S.*

Diana S. Johnson, 1984  
*Director of Dining Services*  
*SUNY Morrisville,, A.A.S.*

Thomas C. King, 1982  
*Director of Retail Operations/Retail Sales*  
*State University College at BrockportBrockport, B.A.*  
*SUNY Morrisville,, A.A.S.*

Robert D. Klish, 1991  
*Director of Computer Services and Marketing*  
*Rochester Institute of Technology, B.A.*  
*SUNY Morrisville,, A.A.S.*

James J. McFadden, 1976  
*Director of Facilities Maintenance Director of Iceplex*  
*SUNY Morrisville,, A.A.S.*

Stanley E. Smith, 1987  
*Executive Director of Agri-Business, LLCs*  
*SUNY Morrisville,, A.A.S.*

Jennifer S. Stowell, 2011  
*Director of Human Resources*  
*SUNY Morrisville,, A.A.S.*

## FACULTY AND PROFESSIONAL EMERITI

Omanii Abdullah  
 Rodger D. Albert  
 John J. Angerosa  
 Margaret S. Argentine  
 Mark L. Ashton  
 Janet L. Aylesworth  
 Lawrence J. Baker  
 Rosemary L. Baker  
 Neal E. Bandlow  
 Harold C. Bennett  
 Charles D. Blaas  
 Nancy F. Bond  
 Craig A. Brown  
 Mary T. Brown  
 Mary F. Buck  
 William L. Burt  
 Jerome C. Caretti  
 William L. Carr  
 Richard J. Carreno  
 Paul E. Carter  
 Matthew Castellucci  
 Eleanor Taylor Chard  
 Howard Close  
 Norm E. Cohen  
 Roger P. Combs  
 Frank Cook  
 Joseph Coppola  
 Owen D. Corpin  
 Jack R. Crawford  
 Christine A. Cring  
 James W. Cronn  
 Penelope Croot  
 Joan M. Danehy  
 Norman K. Dann  
 Richard H. Dansingburg  
 Thomas G. David  
 Manuel F. DeMedeiros  
 David. A. Denmat  
 Jana L. DeVencenzo  
 Philip J. DiNovo  
 Henry I. Douglas

Nancy J. Douglas  
 Bruce E. Duncan  
 Charles Dvorak  
 Lisa L. Eklund  
 James D. Engle  
 Robert N. Ewen  
 John C. Ewing  
 Gary C. Farney  
 Katherine D. Flanders  
 Walter C. Flanders  
 Michael D. Gieryic  
 Carl E. Glenister  
 Arthur Glow  
 James L. Godfrey  
 Margaret M. Golden  
 Eugene Gonzales  
 Elizabeth A. Grant  
 Kingsley L. Greene  
 Susanne H. Greenhagen  
 Mary Greenwood  
 Adelbert H. Hall  
 Robert T. Hasegawa  
 Wayne A. Hausknecht  
 James P. Hawley  
 William J. Head  
 Robert Hemmings  
 Richard J. Higby  
 Fred Hildebrand  
 Marion Hildebrand  
 Lewis V. Holmes  
 Raul A. Huerta  
 Nick B. Hunter  
 David W. Hutchings  
 Jon E. Iannitti  
 Joseph R. Insel  
 Dorothy Ivinski  
 Fern A. Jackson  
 Amelia M. Jeffrey  
 Minnie C. Jenkins  
 Donald G. Jones  
 William R. Jones

Richard L. Kapral  
 James W. Kelly  
 Eileen E. Kinsella  
 Robert D. Lambert  
 Robert V. Lancaster  
 Eugene L. Larchar  
 Steven J. Law  
 Richard T. Lawler  
 Thomas C. Leamer  
 H. Arthur Lemery  
 J. Russell Leonard  
 Yea-Chyn (Ivy) Liu  
 Vera-Elisabet Littlejohn  
 Edward J. Lynch  
 William Maddison  
 Joyce A. Malloy  
 Mark A. Manchester  
 Brian L. McDowell  
 Beverly G. McKay  
 James McPherson  
 Colleen B. McSweeney  
 Bonalyn J. Miller  
 Kim Mills  
 Audra R. Mockovak  
 Paul W. Mockovak  
 Grace H. Modrzejewski  
 Diana L. Molloy  
 Denise S. Moore  
 Nancy G. Moses  
 Michael J. Mullins  
 George R. Musal  
 Joseph E. Nassimos  
 Francis M. Nataluk  
 Sharon T. Ogrydziak  
 Victor I. Okereke  
 Edward J. Parker  
 James S. Parker  
 Anthony P. Patane  
 Marylyn B. Paul  
 Margaret S. Peer  
 Phyllis E. Petersen

Gretchen J. Plotkin  
 Patricia J. Powers  
 Roger W. Powers  
 Pronto, Charles F.  
 David G. Puddington  
 Michael P. Reeve  
 Jeanne S. Resnick  
 Bruce M. Revette  
 Louisa A. Richards  
 Charles L. Roberts  
 Stanley H. Roe  
 Robert M. Rouse  
 Dennis E. Sands  
 Carol A. Schade  
 Thomas J. Skuce  
 Donald A. Smith  
 Marie Smith  
 Kenneth R. Snyder  
 Colleen Stella  
 James Taylor  
 Philip W. Tayntor  
 Arthur R. Thompson  
 Douglas A. Trew  
 Gregory H. Tyler  
 Jeanne M. Urban  
 Robert J. Van Malderghem  
 James C. VanRiper  
 Lawrence F. Virkaitis  
 Douglas O. Westcott  
 Robert T. Whalen  
 Kathleen L. White  
 Jean G. Wilberg  
 Shelly H. Williams  
 Beverly C. Wise  
 Lois S. Woods  
 Frederick W. Woodward  
 Herman Worzel  
 Melody L. Ziobro  
 Nancy S. Zlomek



# MORRISVILLE COLLEGE FOUNDATION, INC.

The functions, powers and purposes of the Morrisville College Foundation, Inc. are:

- To help organize a structure that will involve alumni, friends and students to maintain their interest in the objectives of the development program - namely, meeting the educational goals of Morrisville State College by assisting the institution in its endeavors to provide educational opportunities to all qualified individuals;
- To provide financial assistance to the students, faculty and staff of the college to the extent that it is consistent with the educational activities and goals of the college;
- To make gifts, grants, or loans, for educational purposes to the college or to organizations associated with, and authorized by, the college, provided that such organizations have been recognized as exempt organizations under section 501 (c) (3) of the United States Internal Revenue Code (or the corresponding provision of any future United States Internal Revenue Code);
- To encourage voluntary contributions to Morrisville State College and to advise on and recommend methods of fund promotion and solicitation that will raise the greatest potential results;
- To receive and hold gifts of money and personal and real property, and to invest, manage and collect income from such gifts;
- To disburse funds, property and income for the purpose of advancing the educational and cultural activities of Morrisville State College;
- To elect and appoint officials and committees for the proper accomplishment of the development programs;
- To react and respond when requested with recommendations to the college on the various aspects of proposed fund raising programs;
- To recommend short- and long-term goals for the development program to the college president or his designated representative.

## MCF Board of Directors

Larry Hitchcock '70, Chairman  
Stephen M. Paravati '85, Vice Chairman  
Mary C. Branham '93, Treasurer  
Emily O. Marshall, Secretary

## Board Members

Donald C. Babcock '59  
Lawrence J. Baker  
Brian M. Bartlett Juanita J. Bass  
Jean L. Boland  
David R. Buran  
Douglas R. Burns, Jr., CFA, CPA  
John M. Curtin  
Arnold R. Fisher  
Dennis F. Kelly '67  
Thomas C. Leamer, D.Ed.  
Pegi S. LoPresti '88  
William D. Magee  
Gregory C. Slack, Ph.D. '83 President Alumni Board  
Margaret Hoose, President Faculty Senate  
Student Government Representative

## Ex-Officio

MaryEllen Burdick  
Glenn Gaslin  
David E. Rogers, Ph.D.

## Executive Director

Theresa R. Kevorkian

## Alumni Board of Directors

Kimberly L. Baums '91  
Wade B. Coye, Esq. '78, Vice President  
Samuel C. Doubleday '15  
Laura Ford '15  
Linda J. Gorton '79  
Tim A. Grant '88  
Mary C. Helmer '81  
Larry W. Hitchcock '70  
Keith W. Jones '69  
Patricia A. King '77, Vice President of Local Outreach  
Deborah K. McCaffery '74, Secretary  
Mary Beth Printskey '74  
Robert J. Schermer '56  
Gregory C. Slack, Ph.D. '83, President  
Sharry L. Woodcock '89

## NOTES

## NOTES

## NOTES



## NOTES








## ADMISSIONS

315.684.6046

[admissions@morrisville.edu](mailto:admissions@morrisville.edu)

## CONNECT

-  [www.morrisville.edu](http://www.morrisville.edu)
-  [facebook.com/SUNYmorrisville](https://facebook.com/SUNYmorrisville)
-  [twitter.com/SUNYmorrisville](https://twitter.com/SUNYmorrisville)
-  [youtube.com/SUNYmorrisville](https://youtube.com/SUNYmorrisville)
-  [instagram.com/SUNYmorrisville](https://instagram.com/SUNYmorrisville)



The State University  
of New York