

M O R R I S V I L L E   S T A T E   C O L L E G E

# College Catalog

## 2015-2016

M O R R I S V I L L E   S T A T E   C O L L E G E  
State University of New York  
College of Agriculture and Technology

P.O. Box 901  
Morrisville, New York 13408

[www.morrisville.edu](http://www.morrisville.edu)  
315.684.6000

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# 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 and 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, Sustainability, Business, and Entrepreneurship	315-684-6083 or 315-684-6056	315-684-6125
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 and 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

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# 2015-16 Academic Calendars

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## Fall 2015

Classes Begin	Monday	August 24
October Break	Monday & Tuesday	October 12, 13
Thanksgiving Break	Wednesday-Friday	November 25-27
Classes End	Friday	December 11
Block Final Exams	Saturday & Monday	December 12, 14

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## Winter 2015-16

Classes Begin	Thursday	December 21
Classes End	Friday	January 15

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## Spring 2016

Classes Begin	Wednesday	January 18
Spring Break	Monday-Friday	March 14-18
Classes End	Tuesday	May 6
Block Final Exams	Saturday & Monday	May 7 & 9
Commencement	Saturday	May 14





# Morrisville State College

## A College that Works in a System that Excels

### **Vision**

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

### **Mission**

Morrisville State College 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

# General Information

The College of Agriculture and Technology at Morrisville is a unit of the State University of New York. Morrisville State College 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.

Morrisville State College 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 Morrisville State College 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 and Staff

### Responsibility for Morrisville State College

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; Morrisville State College 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.

## Morrisville State College

### 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 Morrisville State College and our greater society.

November 9, 2004

### Morrisville State College

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

Morrisville State College 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*

Morrisville State College 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

## ThinkPad University

Morrisville State College 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, Morrisville State College 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 listed under "School Information & Programs of Study".

*\*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 also offers several ThinkPad options. For additional information on Morrisville's ThinkPad University go to [www.morrisville.edu](http://www.morrisville.edu) and search "ThinkPad University Laptops."

## Wireless

In partnership with Meru Networks, Morrisville State College installed the first-ever enterprise-wide 802.11n wireless network, creating the fastest wireless network in the world. This 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. Morrisville State College's wireless technology facilitates teamwork, collaborative

learning, mobility, and prepares students for today's mobile workforce. Using Meru's 802.11n wireless and ThinkPad laptops, Morrisville State College has created a nomadic learning environment where students can learn and study in the location that is best for them.

## Cell Phones

Each Morrisville State College 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 long distance calls 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 more information, contact The Technology Center at 315-684-6422.

## Registration and Accreditation

All bachelor and associate degree curricula are registered with the State Education Department. Morrisville State College 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.

## Faculty

Morrisville State College 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 Morrisville State College 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 90 hours a week when classes are in session and offers wireless access, comfortable study areas, computer work stations, and quick print computer stations as well as reference consultations, interlibrary loan, and information literacy instruction. Librarians are available to assist all members of the campus community in finding, accessing, and using information from Library and outside information resources. 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 a thousands of electronic books. Our print and materials collection consists of over 80,000 books, 200+ journals and newspapers, and 2,200+ DVDs and videocassettes. 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 first floor of the Library also houses the School of General Studies and tutoring services

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 Morrisville State College 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 85 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 Morrisville State College on the web at [www.morrisville.edu](http://www.morrisville.edu).

## Distance Education

Morrisville State College'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 Morrisville State College 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 and alumni in defining and achieving their unique post-graduate goals. Students and alumni engage with the office for guidance on any aspect of the career planning and development process, from identifying and exploring career options to developing resumes, cover letters, and portfolios; mastering the art of networking; strategizing on and conducting internship and job searches; preparing for interviews; and negotiating job offers. Career Services also advises on applying to additional degree programs.

Students and alumni can connect with the office in individual advising appointments, campus-wide and class-specific workshops, walk-ins at satellite locations around campus, and events such as the Networking and Recruitment Series and the annual Job & Internship Expo. To complement in-person services, resources specifically for Morrisville students and alumni can be accessed through the Career Services website. Career Services is located in 308 Whipple.

## International Education

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.

In addition, the College has partnered with Cambridge Education Group to establish ONCAMPUS SUNY, an on-campus pathway program, which allows international students to enroll in an academic preparatory program operating from the premises of Morrisville's campus. The establishment of the M-HUB enables new arrived international students to gain admission to, and obtain undergraduate and/or post-graduate degrees from, either Morrisville State College or one of a partnering SUNY College.

## 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 Morrisville State College 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 Institutional Diversity Committee plays a crucial role in the advancement of diversity and pluralism. 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.
- Enhance America's economic competitiveness. Sustaining the nation's prosperity in the 21st century will require us to make effective use of the talents and abilities of all of our citizens, in work settings that gather individuals from diverse backgrounds and cultures.

### 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 Morrisville State College 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

Morrisville State College 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 Sarah Steele, Director of Human Resources and Affirmative Action/Title IX Coordinator, Whipple Administration Building, 4th floor, Morrisville State College, Morrisville, NY 13408, (315) 684-6829, email: [stelesg@morrisville.edu](mailto:stelesg@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 Affirmative Action/Title IX Coordinator, located in the Human Resources Office, 4th floor of the Whipple Administration Building, Morrisville State College, Morrisville, N.Y. 13408, 315-684-6038, [stelesg@morrisville.edu](mailto:stelesg@morrisville.edu). Additional Title IX contacts include: Geoffrey Isabelle, Dean of Students, 1st floor of the Whipple Administration Building, Morrisville State College, Morrisville, N.Y., 315-684-6070, [isabelleg@morrisville.edu](mailto:isabelleg@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, Morrisville State College 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> or may be obtained from Sarah Steele, the College's Affirmative Action Officer/Title IX Coordinator, Human Resources Office, 4th floor of the Whipple Administration Building, 315-684-6829 or [stelesg@morrisville.edu](mailto:stelesg@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. Morrisville State College 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.

### Morrisville State College Institute for Advanced and 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 Morrisville State College 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 Morrisville State College. 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 Morrisville State College *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, Morrisville State College, 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

Morrisville State College is committed to assisting all members of its community in providing for their own safety and security. By October 1 of each year, Morrisville State College 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 Morrisville State College 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 Morrisville State College 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 NYS University Police Department at Morrisville State College, located in Brooks Hall, Morrisville, N.Y. 13408. If

you would like to request that a copy be mailed to you, please call (315) 684-6410. 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 Morrisville State College.

# 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.

Morrisville State College 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.

Specific programs at Morrisville State College may have recommended or mandatory entrance requirements. For complete information, contact the Admissions Department, or view the program pages at [www.morrisville.edu/academics](http://www.morrisville.edu/academics).

## How to Apply

### Freshman Applicants

- Freshman applicants must submit the SUNY or Common application. Please note that the supplemental application 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 "NORWICH" under "special campus project" on the "my campus selections" page of the SUNY online application.
- SAT/ACT examinations are required for all Morrisville State College bachelor degree programs and select associate degree programs. SAT/ACT examinations are also required for consideration of merit award scholarships. Refer to individual program descriptions to determine if submission of scores is required for your area of interest. For all Morrisville State College associate degree programs, examination scores are recommended.
- A minimum of one letter of recommendation is recommended. 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 Morrisville State College are encouraged to schedule an appointment to visit the campus. Visits can be arranged online at <http://www.morrisville.edu/admissions/visit.aspx> or by contacting the Admissions Office at 315-684-6046.

### Transfer Applicants

Students who wish to transfer to Morrisville State College 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.
- For Transfer applicants without a completed college degree at the time of applying, an official high school transcript is also required.
- Personal Essay. Only required if grade point average is below a cumulative 2.5, or there is a gap in education.

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: In 300-500 words, 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 "NORWICH" 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 Morrisville State College 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, the course grade is a minimum of C or better, and the course was taken by the student within the past seven (7) years. Transfer credit will not be included in the student's Morrisville State College 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. Morrisville State College 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 Morrisville State College 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 Morrisville State College for at least one semester and not more than seven years, may apply for readmission through the Morrisville State College 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 Morrisville State College. 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 will be considered for readmission/reinstatement by the college only with approval of the school office and/or with the satisfactory completion of the following:

- The student completes six credit hours or more (at least two courses) of remedial course work at another institution with minimum grades of B or better in all courses, or
- The student completes six credit hours (together or in sequence) at another institution, with minimum grades of C or better in each course.

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.*

## 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 college. "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).

Tutorial services and counseling are designed to aid students in adjusting to college and developing the academic skills necessary to be successful in their chosen curriculum. 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 Morrisville State College 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

Morrisville State College 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.

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 Morrisville State College, 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 Morrisville State College, 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 and 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

<b>Math &amp; Computer Science</b>			
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
<b>Sciences</b>			
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
<b>World Languages &amp; Cultures</b>			
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.

In addition, nursing applicants who have completed a License Practiced Nursing program may receive advanced standing. Documentation must be submitted upon application to the college.

## 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 Morrisville State College. 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 Morrisville State College. 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 felony convictions or 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" to either of these questions will be 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.

Morrisville State College 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 Morrisville State College. Contact the Admissions Office, 315-684-6046, with any questions.

Morrisville State College 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). A minimum score of 2500 must be achieved on the GED in order to be considered for admission. Contact the Admissions Office, 315-684-6046, with any questions.

Students lacking a high school diploma or GED who are not seeking admission to either a degree or certificate program at Morrisville State College but who wish to take courses on a non-matriculated basis must obtain written approval from the Vice President for Enrollment Management.

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 Morrisville State College 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

Morrisville State College  
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

Executive Director, Jason Zbock  
607-334-5144, zbockjp@morrisville.edu  
Roger W. Follett Hall  
20 Conkey Avenue, Norwich, New York 13815-1752  
www.morrisville.edu/norwich

## General Information

In June 2005, the Norwich Campus relocated its campus operations to the state-of-the-art facility, Roger W. Follett Hall, adjacent to the Eaton Center in downtown Norwich. Easy access to shopping, services, and cultural and recreational activities makes the Norwich Campus an attractive option for students seeking a distinctive, challenging, and uniquely supportive academic and social environment. Students from the area can reduce the cost of college by commuting to the Norwich Campus while living at home, while those wishing to “live away” can find apartments available for rent locally

## Norwich Campus Mission Statement:

The Norwich Campus 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: To offer career-focused, experiential learning

*The Norwich Staff will support ongoing internships opportunities, service learning, and community service through events and partnerships*

*The Norwich Staff will support student opportunities in CSTEP programs.*

Goal: To promote inquiry and scholarship at all levels

*The Norwich Executive Director will support faculty and staff workshops or professional development events*

Goal: To enhance campus-wide opportunities for awareness of global cultural practice

*The Norwich Campus community will provide workshops and presentations that support College values and civility.*

### Build Community

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

*The Norwich staff will develop multiple events to showcase student, faculty, and community achievements and celebrate progress.*

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

*Norwich Liaison committee will partner with the College Senate to invite a speaker to present to faculty, staff, and community members on selected topics in leadership and applied learning in fall 2015.*

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

*The Norwich Campus faculty and staff will partner with local high schools, DCMO BOCES, and local employers to obtain early college experiences at the Norwich Campus with concurrent enrollment.*

*The Norwich Executive Director will partner with Liberty Partnership Program, and Admissions to conduct outreach to local high school administrators to discuss opportunities for enrollment growth, career/college readiness, and additional joint activities in fall 2015/spring 2016.*

*The Norwich Campus will promote Follett hall as a community space for training, workshops, events, and videoconferencing needs.*

## Achieve a Sustainable Future

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

*The Norwich Campus will use upgraded video conferencing to improve course delivery and enhance industry/business usage.*

Goal: To achieve effective and sustainable levels of required resources

*The Norwich Campus will continue to improve the safety and security of the facility.*

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

*The Norwich Executive Director is using student focus groups and student surveys to gather information related to space utilization, food service, facilities, and the satisfaction of student support services.*

*The Norwich Executive Director will gather feedback from the appropriate committees, shared governance/advisory councils on strengths, weaknesses, opportunities, and threats through periodic meetings in fall 2015/spring 2016.*

*The Norwich Executive Director will report back to the Provost and Academic Deans new opportunities for outreach for course offerings based on student demand and agency/business need.*

## Programs and 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 Accepted Student Days.

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
- Computer Information Systems
- Computer Systems Technology
- Criminal Justice
- Early Childhood
- Human Services
- Individual Studies
- Liberal Arts and Sciences (Humanities and Social Sciences)
- Nursing (first year only)
- 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.

Food service is available in the evening at the Campus Quick Pick.

## 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

The Admission Office, located at the Morrisville campus, processes all admission applications for both the Morrisville and the Norwich Campuses. When applying, Norwich applicants are asked to fill out the special campus code "NORWT" to indicate attendance at the Norwich Campus. Please refer to the relevant section of this catalog for information on Admission or call the admissions office at 315-684-6046 to check on the status of your application. All those seeking to matriculate (earn a degree) and those applying for financial aid must apply for college admission.

## Academic Advising

Morrisville State College 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 or faculty program coordinator. 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. Most tutoring occurs at the Academic Enrichment Center located in Room 134 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 Resource Room off the Library, the Computer Lab-Room 225 and room 134. 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 Accepted Student Days, on flyers/bulletin boards; and from campus staff and faculty.

## 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, as well as specific classroom needs or special parking accommodations. Class scheduling and restroom 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. Disability services for students who attend the Norwich Campus are arranged through Pat Davis, located in Room 211 of Roger W. Follett Hall, 607-334-5055.

## 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, 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 Morrisville State College 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 Morrisville State College 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

Morrisville State College 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, Computer Information Systems/Computer Systems Technology, 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.

# COLLEGE PLANNING

## Costs/Fees\*

	First Semester	Second Semester	Total
<b>Tuition</b>			
New York State Resident: 2-year/4-year	\$3,235	\$3,235	\$6,470
Out-of-State: 2-year/4-year	\$5,320/8,305	\$5,320/8,305	\$10,640/16,610
** Part-time, N.Y.S. residents--\$257 (2-year) per credit hour, \$257(4-year)			
** Part-time, out-of-state residents (inc. fee) \$444 per credit hour (2-year), \$659 (4-year)			
<b>Fees</b>			
State University Fee	\$12.50	\$12.50	\$25.00
Student Activity Fee	\$100.00	\$100.00	\$200.00
Orientation (entering Morrisville students)	\$85.00		\$85.00
Orientation (entering Norwich students)	\$25.00		\$25.00
Student Athletic Fee	\$199.00	\$199.00	\$398.00
Health Insurance (if not otherwise covered; 12 months, inc. major medical)	\$630.00	\$630.00	\$1,260.00
Transportation Fee (Morrisville Campus only)			\$184
International Student Insurance	\$542.25	\$542.25	\$1,084.50
Alumni Fee	\$10.00	\$10.00	\$20.00
Motor Vehicle Registration			
Resident	\$90.00		\$90.00
Commuter	\$75.00		\$75.00
Graduation Fee (graduating seniors only)		\$25.00	\$25.00
Housing (double room rate)	\$3,749.00	\$3,749.00	\$7,498.00
Meals	\$2,595.00	\$2,595.00	\$5,190.00
Books and Supplies (estimated)	\$700.00	\$700.00	\$1,400.00
Dormitory Services	\$400.00	\$400.00	\$800.00
Career Services Fee	\$13.00	\$13.00	\$26.00
Health Service Fee	\$150.00	\$150.00	\$300.00
Fitness Fee (optional)	\$65.00	\$65.00	\$130.00
Technology Fee	\$185.00	\$185.00	\$370.00
Laptop Computer (varies depending on model)	\$550.00	\$550.00	\$1,100.00***

\* All costs are current as of 4/1/2015 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

Morrisville State College 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 Morrisville State College 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 \$199.00 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 \$8.50 per credit hour, or \$100.00 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 \$12.50 per credit hour, or \$150.00 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 \$15.50 per credit hour, or \$185.00 for full-time students. The technology fee is charged to all Morrisville State College 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 \$8.00 per credit hour, or \$96.00 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 \$1.00 per credit hour, or \$10.00 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 \$50 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 \$50 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 21) 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

1. 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.
2. 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.
3. Civilian employees of the military are not included in these exceptions to the domicile requirements.
4. 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 and Undocumented Aliens

1. 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.
2. 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.
3. 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 and 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 Tuition Assistance Program (TAP), 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 Perkins, 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, a Federal Perkins Loan, 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.

## Responsibilities and 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 or from the Financial Aid Office.
2. Return all forms **properly** filled out 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 students 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. If the student's bill has not been paid, one half of the total award will be deducted from each semester's bill. If the bill for the semester has been paid, the student will receive a refund equal to one half of the total award.
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, and 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 included in the qualitative assessment but not the GPA.
- Students who are on Financial Aid Suspension that enroll for courses without aid or interrupt their attendance for one or more academic periods does not have an effect on their 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

### Credit Hours Completed

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 of six semesters or a three-year period for an associate's degree, or 12 semesters or a six-year period for a bachelor's degree according to the following minimum credit hours:

At the end of each year, a full-time student must complete at least this many credit hours:

First	Second	Third	Fourth	Fifth
15	39	66	96	111

If the student is in attendance only one semester of an academic year (August to August), one-half of the credit requirements outlined above will constitute satisfactory academic progress.

Part-time students (as determined by taking a minimum of six credit hours per semester) will be required to complete their studies in a maximum time frame of 12 semesters or six years for an associate's, according to the following schedule.

At the end of each year, a part-time student must have completed at least this many credit hours:

First	Second	Third	Fourth	Fifth	Sixth
9	18	28	39	51	64

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.

## Financial Aid Implementation and Review Procedures

1. These regulations will be administered at the end of each academic semester.
2. 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 outlined by grade point average.
3. If a student changes degree programs, he or she will be given a new time frame.
4. If a student changes majors and this change requires extra time to complete a degree, a re-evaluation of maximum time frame will be made by the academic review committee.
5. Transfers will be given a new time frame when they begin their first semester at Morrisville State College.
6. 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.
7. Upon review of the student's academic record, the academic review committee has the right to waive this policy due to mitigating circumstances.

## Satisfactory Academic Progress for State Aid

The following chart describes the progress which must be made by a student in order to meet this section of the good academic standing requirements to receive financial aid for the following semester.

For All Students in an Associate's Degree Program (enrolled 2010 and after)					
AT THE END OF THIS TERM OF AWARD	1st	2nd	3rd	4th	5th
Credit hours completed with a grade of A through F	6	6	9	9	12
You must have accumulated this many hours toward graduation	6	15	27	39	51
With at least this grade point average (GPA)	1.3	1.5	1.8	2.0	2.0

For All Students in a Bachelor's Degree Program (enrolled 2010 and after)									
AT THE END OF THIS TERM OF AWARD	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
Credit hours completed with a grade of A through F	6	6	9	9	12	12	12	12	12
You must have accumulated this many hours toward graduation	6	15	27	39	51	66	81	96	111
With at least this grade point average (GPA)	1.5	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.0

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 (VVTA).

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 \$605 to \$5645 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 \$200 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 Perkins Loan

The Federal Perkins Loan program is for students who are enrolled at least half-time in a participating post-secondary institution and who have established financial need. The college determines who is eligible and the amount of the loan that will be offered. A student may accumulate up to \$5,500 per year in Federal Perkins Loans and not more than \$27,000 during the undergraduate years.

Repayment begins nine months after the student graduates or leaves school for other reasons. The student may be allowed up to 10 years to repay the loan. During the repayment period, the student will be charged five percent interest on the unpaid balance of the loan principal. Since the Federal Perkins Loan is awarded by the college, only normal financial aid application procedures need to be followed to apply.

### 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 \$4,000 per year. Funds may be limited.

Repayment begins nine months after the borrower graduates 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 great financial need and who must earn a part of their educational expenses. 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, Morrisville State College 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. All students are eligible to receive a minimum of \$2,000 of unsubsidized funds each year. The Federal government will pay interest on the **subsidized** loan while the student is in college. If for any reason a student decides to take less than the full amount offered in a **subsidized** loan, the loan will become unsubsidized. 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' and 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, Morrisville State College, 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, Perkins 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 percentage 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.*

### 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, 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:

April 16, 1917-November 11, 1918;  
December 7, 1941-December 31, 1946;  
June 27, 1950-January 31, 1955;  
December 22, 1961-May 7, 1975;

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. Students whose parents served in the Persian Gulf Conflict, Iraq and Afghanistan may also be eligible.

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.

## 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 and 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

Morrisville State College 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 for more information.

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

The principal mission of the Educational Opportunity Program (EOP) at Morrisville State College 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.

Once students are admitted to Morrisville State College 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 Morrisville State College 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.

## 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 Financial Eligibility

	A
1	\$21,590
2	\$29,101
3	\$36,612
4	\$44,123
5	\$51,634
6	\$59,145
7	\$66,656
8	\$74,167

\* Plus \$7,696 for each additional family member in excess of eight.

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, Morrisville State College, 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.

### 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.

Three levels of Academic Awards are available:

- **Trustees Award:** Our highest award, Trustee Award winners receive \$8,000 per year for a maximum of four years. The student must be enrolled full time, and maintain a minimum GPA of 3.0.
- **Presidential Award:** This award covers the cost of in-state tuition for a maximum of four years. The student must be enrolled full time and maintain a minimum GPA of 3.0.
- **Deans Award:** These awards range from \$2,000-\$3,000 a year for a maximum of four years. The student must be enrolled full time and maintain a GPA of 2.5 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 and 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).

### Local Campus Award

#### Eligible Students: Incoming Freshmen from Madison and Chenango Counties

Morrisville State College 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, the Local Campus Award provides full tuition and fees less any Pell and Tap awards to our local freshmen in recognition of their academic merit.

Eligible applicants must submit class rank as established during their senior year of high school, and submit a FAFSA to the MSC 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).

### Academic Success Scholarship

#### Eligible Students: All Incoming Freshmen

Ten \$1,000 scholarships will be awarded to new and incoming students who have shown promise during high school, but may fall slightly below the academic requirements of our merit based awards. Through academic progress and success during college, students will be able to receive a \$500 increase in their scholarship per year for four years for a total of up to \$7,000 in award.

A minimum 2.5 GPA is required to maintain the scholarship and to qualify for increased award in the subsequent year. As with all our Mustang Merit Based Awards, Academic Success 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.

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

### MSC Transfer Scholarship

#### Eligible Students: New Transfer Students

Transfer students who have graduated with an associate's degree and are enrolling at MSC for a bachelor degree program, may be eligible to receive up to \$3,000 per year for two years of study at MSC. Award recipients need to maintain a 2.5 cumulative GPA or higher while enrolled at MSC to maintain eligibility. All transfer applications will be evaluated on academic strength, and students who are active members of Phi Theta Kappa will be given preference.

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

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

## FOUNDATION SCHOLARSHIPS

The following Foundation scholarships require a separate application which is available online at the Morrisville State College 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.

The deadline to apply for most Foundation Scholarships is February 1 unless otherwise noted. Successful candidates will be notified March 1 prior to the start of the academic year unless a different award process is specifically indicated.

All submissions are reviewed by the MSC Scholarship Committee. In the event that no qualified applications are received, the MSC 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 AND 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 Morrisville State College. 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 Morrisville State College full time (at least 12 credit hours), whose mother or father are currently employed by Morrisville State College. Students must maintain a 2.5 GPA to maintain eligibility.

### **Morrisville State College Leadership Awards**

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

#### **High School Active Member of 4H, FFA, FBLA, Skills USA, Boy's or Girl's 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 MSC 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.

### **Morrisville State College 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.

### **Raymond L. Banks Scholarship**

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

This scholarship is available to a returning Morrisville State College student (in any academic program) continuing their education in a four-year program at Morrisville State College. 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. and 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 Morrisville State College). This scholarship is available to any student attending the Morrisville campus showing financial need.

### **Ruth Owens Gregory Clark '60 Award**

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

This award will be given annually to a MSC student who is enrolled in the medical office administration, health related studies, or nursing curriculum and who plans to continue in this curriculum at MSC. 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 MSC 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 Chenango County enrolled at Morrisville State College (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 MSC 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.

### **KeyBank of Central New York Award**

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

Returning students are eligible for this award sponsored by KeyBank of Central New York. Criteria: student must be a permanent resident of New York State;

have a minimum GPA of 2.5; may be enrolled full or part time; be in good standing with the school; and have a history of community involvement.

### **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 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."

### **Dr. Henry Washington Award**

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

Students will be nominated for the award by a committee comprised of staff from the Syracuse Educational Opportunity Center (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 Morrisville State College. 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.

## **SCHOOL OF AGRICULTURE, SUSTAINABILITY, BUSINESS & ENTREPRENEURSHIP**

### **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 and Natural Resources. 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.

### **Marilyn and 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.

### **Merton Evans Scholarship**

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

This scholarship is awarded annually to an incoming freshman agricultural 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 Morrisville State College 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 Morrisville State College. 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 Morrisville State College, 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 by the Morrisville Dairy program and the Crowley family to an incoming freshman who has been accepted into the dairy program; is a graduate of Red Jacket High School (part of the Manchester-Shortsville School District), and who is a resident of Ontario County involved in the 4-H program. If no candidate meets those requirements, the student can be a freshmen accepted into the Information Technology program in addition to meeting the other criteria.

## Diesel Technology

### Southworth-Milton/Caterpillar

#### Excellence Scholarship

#### Eligible Students: New and Continuing Students

Eligible Students: New and Continuing Students

Since 1998, both Caterpillar Inc. and Southworth-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 MSC student who is enrolled in the diesel technology curriculum and who plans to continue in this curriculum at MSC. 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.

## 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 Morrisville State College 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 Morrisville State College (during their internship). Applicants must include an essay describing what experiences you feel have benefited you the most about the MSC 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 Morrisville State College 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 senior student

who has exhibited great interest, dedication, ability and desire to pursue a career in equine studies.

## Horticulture

### 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 by donations to the Horticulture Department Scholarship Fund. No application is necessary.

### Art & Holly Hicks Scholarship

**Eligible Students: Continuing Students**

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

## Accounting

### The Accounting Excellence Award

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 Morrisville State College and holds a grade point average of 2.5.

### R. Bruce Wise Memorial Scholarship

**Eligible Students: Continuing Students**

Named for the 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.

## Food Service Administration, Hospitality, and 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.

### Hospitality Technology/MAC Award

**Eligible Students: Continuing Students**

This award will be given annually to a MSC student who is currently enrolled full time in the Hospitality Technology Department majoring in Gaming & Casino Management, Travel & Tourism, Restaurant Management, Culinary Arts Management or BBA in Resort and Recreation Service Management. Awards will be given to a student who maintains a minimum 2.0 GPA and will be chosen by the faculty of that program.

### 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 awarded to Morrisville State College food service students pursuing a career in the food service industry or a related field.

## SCHOOL OF LIBERAL ARTS

### The Art W. and Doris Roberts Scholarship

**Eligible Students: Continuing Students**

This scholarship recognizes a returning full or part-time student who has completed a minimum of one semester of study in a School of Liberal Arts curriculum.

## SCHOOL OF SCIENCE, TECHNOLOGY, AND 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 (in any automotive program) annually 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.

## 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 and 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 Systems 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.

## Office Technology

### Beverly and David McKay

#### Office Technology Award

#### Eligible Students Continuing Students

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 Morrisville State College, hold a GPA of 2.75, and demonstrate their written communication skills.

## Science

### Art & Holly Hicks Scholarship

#### Eligible Students: Continuing Students

This annual award is given by the Morrisville State College 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 MSC 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 and 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 and Technology. The award is in honor of Malcolm B. Galbreath, the third president of Morrisville State College. Under his leadership, the Engineering Departments were started and were later incorporated into the School of Science and Technology. 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's Office and recommended for a personal interview. The award is given during the spring semester.

## 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. 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.

## Nursing

### Chesebro Ponds Unilever Nursing Scholarship

#### Eligible Students: New and Continuing Students

This scholarship is available to students enrolled in the Nursing program at the Morrisville College campus. Candidate must be in good academic standing, show financial need and be from the Oriskany Falls area.

### 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 and 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 contribution 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 goes to a returning nursing student who is a single parent pursuing a degree in the health professions.

### Mary E. Jenks Award

#### Eligible Students: Continuing Students

This award is named for the 1971 graduate of Morrisville State College 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 Morrisville State College, has overcome hardships to realize the goal of the nursing degree, and has demonstrated outstanding attitude and achievement in the program.

### 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.

## 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 MSC, 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 MSC'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 and 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 and Continuing Students

This \$1,000 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 beyond the first year. 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 MSC's 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 MSC 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 and Continuing Students

A scholarship to Morrisville State College 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 Morrisville State College 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 Morrisville State College 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 and 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.nmcrs.org](http://www.nmcrs.org)

### ROTC Information

- Air Force: <http://www.foats.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

- Morrisville State College 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

## 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, or S do not yield grade points.

## 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.

## Academic Warning and Dismissal

A student maintains good academic standing with a cumulative GPA of at least 2.0 and suitable progress toward graduation requirements. A student who does not maintain good academic standing may be placed on academic warning, on academic probation, or dismissed from the college based on Academic Review processes.

**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 or who is not maintaining progress toward graduation requirements.

**Academic Probation** is a contractual arrangement, such as a "conditional semester" contract or an "academic warning/deferred dismissal" contract. Students offered a contract are not in good academic standing as a result of failure to meet GPA requirements or failure to maintain progress toward graduation requirements. 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.

## 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.

## Suitable Academic Progress

Suitable academic progress toward graduation is defined as completion of at least 12 credit hours each semester within the framework of current warning and dismissal policies. A student on academic warning is considered to be making suitable academic progress. A full-time student completing fewer than 12 credit hours in any semester will be considered for retention or dismissal by the appropriate academic review committee, regardless of cumulative grade point average. A part-time student will be subject to the same review as each 12 hours is completed.

## 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

Morrisville State College 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

Morrisville State College 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 Morrisville State College 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 Morrisville State College 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 Morrisville State College 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 and Music Credit

A student may earn physical education credit by participating in the intercollegiate athletic program at Morrisville State College. 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. A grade of "C" or better is generally required to receive transfer credit. 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: 0-27 credit hours
- Second year: 28-61 credit hours
- Third year: 62-93 credit hours
- Fourth year: 94 - 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.

## 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 Morrisville State College.

## 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.

## Cumulative Average

Any student with a cumulative or semester grade point average of less than 2.0 may be issued an academic warning; or dismissal from the college. The decision to warn or dismiss will be made by the school academic review committee after considering the student's record using the following guidelines. The financial aid standard will parallel the college standard for academic warning; the student will be put on financial aid warning as well. Academic progress is defined both by satisfactory cumulative average and by number of credits completed.

Semester	Cumulative GPA	Action by Academic Review Committee
<b>First</b>	Less than 1.0	Dismissal
	1.0-1.69	Dismissal or Academic Warning
	1.7-1.99	Academic Warning
<b>Second</b>	Less than 1.5	Dismissal
	1.5-1.99	Dismissal or Academic Warning
<b>Third</b>	Less than 2.0	Dismissal or Academic Warning
<b>Fourth and above</b>	Less than 2.0	Dismissal or Academic Warning

Students may not be allowed to continue in a specific academic program if prerequisite courses are not satisfactorily completed.

## Transcript Requests

The first transcript is free, and a fee of \$5.00 will be charged for each additional transcript requested. Checks should be made payable to Morrisville State College. Transcripts will not be sent until the fee is received, nor will they be sent for anyone with a financial obligation to the college.

Transcript requests should be made in writing to the Registrar's Office, P.O. Box 901, Morrisville State College, Morrisville, N.Y. 13408. Telephone requests cannot be accepted. Requests should include student's name as it appears on college records and any name change since leaving college, birth date, social security number, dates attended, a current mailing address, name/address transcript is being issued to, signature and required fee.

## 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

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 Outlines

The outlines for curricula in the catalog are designed to provide the student with a sound theoretical and practical education in a particular subject area. In each case, the curriculum outlined is a suggested one and it should be emphasized that each program must show the required distribution of courses in the liberal arts for the degree awarded.

## 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.

## SUNY General Education Requirement

In December 1998, the Board of Trustees of the State University of New York established a General Education requirement for all students studying for bachelor's degrees who enter SUNY in the fall, 2000 semester or thereafter. The Board of Trustees policy established 10 general education content areas (basic communication, mathematics, natural science, social science, American history, western civilization, other world civilizations, humanities, the arts, and foreign languages) and two competencies (critical thinking and information management.)

In an update of this policy passed by the Board of Trustees in March, 2010, and effective for students beginning in the fall 2010 semester, all students in programs leading to a baccalaureate degree in the State University of New York must complete courses in at least seven (7) of the ten content areas, including basic communication and mathematics for a total of at least 30 credits of coursework in approved general education courses. They should also demonstrate competency in the two competencies. (Refer to the detailed program descriptions for approved variations to the requirement.)

Students in most programs leading to the associate in arts or associate in science degrees who intend to transfer to bachelor degree programs will work with their advisors to complete the course work in at least 7 of the 10 content areas. (Some AA and AS programs may have an exemption for one or more of the 10 content areas. Students should consult with their academic advisors for details pertaining to their particular degree program.)

Students in programs leading to associate in applied science degrees who intend to transfer to another SUNY institution should likewise work with their advisors to complete as many of the areas as possible. Listed below are the Morrisville State College courses that have been approved as fulfilling each of 10 content areas. Students should consult their academic advisors or school office about courses that may have been added.

## SUNY GENERAL EDUCATION REQUIREMENTS (SUNY-GER)

The SUNY-GER is the 30-credit requirement for SUNY baccalaureate, A.A., and A.S. degree recipients. Thirty credits in a minimum of 7 of 10 SUNY-GER areas are required for all students in programs leading to A.A., A.S., and baccalaureate degrees. The SUNY-GER areas of Mathematics and Basic Communication are required.

Morrisville State College courses fulfilling the SUNY-GER requirements:

### AMERICAN HISTORY

HIST	101	United States History to 1800
HIST	102	United States History from 1800 to 1900
HIST	103	United States History from 1900 to the Present
HIST	220	African American History
HIST	225	Women in the United States
HIST	320	History of New York State

### ARTS

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

THEA	125	Play Production
THEA	150	Theater Production Lab

**BASIC COMMUNICATION**

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

**FOREIGN LANGUAGE**

AMSL	101	American Sign Language I
AMSL	102	American Sign Language II
SPAN	101	Beginning College Spanish I
SPAN	102	Beginning College Spanish II
SPAN	125	Spanish for Heritage Speakers
SPAN	201	Intermediate College Spanish I
SPAN	202	Intermediate College Spanish II

**HUMANITIES**

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

**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	Analytical Geometry and Calculus I
MATH	152	Analytical Geometry and Calculus II
MATH	153	Business Calculus
MATH	161	Engineering Calculus I
MATH	162	Engineering Calculus II
MATH	261	Engineering Calculus III
MATH	262	Differential Equations

**NATURAL SCIENCE**

AGEN	161	Basic Hydraulics
AGRO	105	Soil and Water Conservation
AGRO	110	Soil Science
AGRO	215	Soil Fertility and Fertilizers
AGSC	132	Introduction to Computer Applications in Precision Farming I
ASTR	101	Solar Astronomy
ASTR	110	Stellar Astronomy
BIOL	101	Introduction to Biology
BIOL	102	Botany: Form and Function of Seed Plants
BIOL	103	Botany: Plant Diversity
BIOL	105	Human Biology
BIOL	107	Topics in Contemporary Biology
BIOL	120	General Biology I
BIOL	121	General Biology II
BIOL	135	Myology I
BIOL	136	Myology II
BIOL	137	Neurology
BIOL	150	Human Anatomy and Physiology I
BIOL	151	Human Anatomy and Physiology II
BIOL	230	Human Genetics
BIOL	260	Principles of Zoology
BIOL	285	General Microbiology
BIOL	300	Biology of Normal and Neoplastic Cells
BIOL	301	Pathophysiology
BIOL	302	Epidemiology
BIOL	405	Basic Immunology
CHEM	101	Basic Chemistry
CHEM	110	Contemporary Chemistry
CHEM	121	General Chemistry I
CHEM	122	General Chemistry II
CHEM	141	Chemical Principles I
CHEM	142	Chemical Principles II
CHEM	220	Introduction to Organic Chemistry
CHEM	241	Organic Chemistry I
CHEM	242	Organic Chemistry II
CHEM	321	Quantative Analysis, Inorganic
CHEM	322	Chemical Instrumental Analysis
CHEM	361	Biochemistry
DANS	110	Dairy Breeding
DANS	120	Anatomy and Physiology of the Dairy Cow
ENGR	201	Statics
ENGR	202	Dynamics
ENGR	210	Electrical Systems
ENGR	212	Mechanics of Materials
ENSC	101	Agricultural Science
ENSC	102	Botany: Form and Function of Seed Plants
ENSC	103	Botany: Plant Diversity
ENSC	104	Plant Pathology
ENSC	105	ENTOMOLOGY
ESCI	110	Equine Anatomy and Physiology
ESCI	305	Equine Reproduction and Breeding Management
HORT	150	Fruit and Vegetable Production
HORT	201	Plant Propagation
HORT	241	Plant Protection
MECH	120	Engineering Materials
MECH	211	Analytical Mechanics (Statics)
MECH	213	Strength of Materials

NATR	101	General Ecology
NATR	115	Forest Ecology
NATR	140	Geology
NATR	152	Fish Reproduction
NATR	160	Principles of Arboriculture
NATR	210	Dendrology
NATR	221	Invasive Species Management
NATR	232	Wildlife Ecology and Management
NATR	250	Aquatic Ecology
NATR	252	Fish Ecology and Management
NATR	254	Fish Health Management
NATR	260	Principles of Zoology
PHYS	107	Introductory Physics I
PHYS	108	Introductory Physics II
PHYS	127	General Physics I
PHYS	128	General Physics II
PHYS	157	University Physics I (Mechanics)
PHYS	158	University Physics II (Electricity and Magnetism)
PHYS	267	University Physics III (Sound and Thermodynamics)
PHYS	268	University Physics IV (Optics and Modern Physics)
PSCI	101	Physical Science
RENG	102	Renewable Energy Resources

#### OTHER WORLD CIVILIZATION

ANTH	101	Introduction to Anthropology
GEOG	101	Introduction to World Regional Geography
HIST	151	World History to 1600
HIST	152	World History from 1500
HIST	171	Environmental History
HIST	172	Latin American and Caribbean History
HIST	181	History of Technology to 1800
HUMN	220	Introduction to Islam
HUMN	231	Native American Studies
LITR	208	Eastern World Literature
POLI	151	Introduction to Comparative Government

#### SOCIAL SCIENCE

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

SOCI	221	Death and Dying
SOCI	250	Social Gerontology
SOCI	270	Drugs, Society & Behavior
SOCI	360	Social Movements and Community Change
SOCI	390	Urban Sociology
STS	101	Values of Science and Technology
STS	301	Human VS. Nature
STS	302	History of Science
STS	316	Investigating Cyberculture

#### WESTERN CIVILIZATION

HIST	161	European History to 1684
HIST	162	European History from 1500
HIST	182	History of Technology from 1750
HIST	371	The World Wars
HIST	372	The Cold War

#### COURSES FULFILLING ONLY THE LAS REQUIREMENT

AGEN	120	Water Supply and Sanitation
ARCH	102	Introduction to Architecture
ARCH	151	Architecture: Prehistory to 1800
ARCH	252	Architecture: 1800 to Present
CJUS	101	Intro to CJUS Systems
CJUS	235	Juvenile Delinquency
COMM	101	Critical Reading
COMM	131	Small Group Discussion
COMP	100	Introduction to College Writing
COMP	232	Creative Writing
COMP	240	Editing 1
COMP	241	Editing 2
COMP	242	Editing 3
HIST	221	History of the Vietnam War
HIST	251	Topics in 20th Century World History
NATR	158	Fish Nutrition
PLAS	121	Introduction to Plastics
POLI	113	American Judiciary System
PSYC	103	Introduction to Applied Psychology
PSYC	221	Biological Psychology
PSYC	325	Motivation and Behavior
PSYC	361	Research Methods and Application in Applied Psychology I
PSYC	362	Research Methods and Application in Applied Psychology II
PSYC	381	Personality
PSYC	461	Tests and Measures

## The Office of Career Planning and Development

### Career Services

The Office of Career Planning and Development is open to all students and alumni of Morrisville State College. Current students and graduates of the College are invited to identify and explore career options; create or edit resumes, cover letters, portfolios, or personal statements; prepare for an internship or job search; network with alumni or other professionals; evaluate a job offer; or consider additional educational opportunities.

### Web Resources

Finding Your Career Direction and Exploring Jobs and Career Fields  
<http://www.morrisville.edu/careerplanning/gettingstarted.aspx>

Career Guides and Resources for Building Your Career Toolkit  
<http://www.morrisville.edu/careerplanning/guides.aspx>

Internship and Job Search Databases  
<http://www.morrisville.edu/careerplanning/searchresources.aspx>

For a complete overview of career services available to Morrisville State College Students and Alumni, visit us online at <http://www.morrisville.edu/careerplanning/>.

#### Additional ways to connect include:

- 30-minute in-person, telephone or Skype individual advising sessions (appointment required)
- 15-minute Advising Express drop-in hours: <http://www.morrisville.edu/calendar/> (*for times*)
- Campus-wide and in-classroom workshops
- Employer events such as our Job & Internship Expo, Networking and Recruitment Series and employer information sessions
- Custom or general workshops for student groups

## Formal Articulation Agreements For High School Seniors

The following are formal articulation agreements Morrisville State College has for transfer of high school courses to college credits before the first year.

### Camden High School

- Mechanical Technology
1. CAD—1 credit
  2. Drafting—2 credits
- Wood Technology
1. Special Project—2 credits

### Cato-Meridian High School

- Food Services
1. Quantity Food Preparation—3 credits
  2. Keyboarding—1 credit
- Travel/Tourism
1. Global & Ethnic Foods—3 credits
  2. Keyboarding—1 credit

### Cayuga-Onondaga BOCES

- Wood Technology
1. Architectural Drawing—3 credits
  2. Heavy Equipment Operation—3 credits

### Chittenango High School

- Office Technology
1. Keyboarding—up to 4 credits
  2. Word Processing I—3 credits
  3. Word Processing II—3 credits

### Clinton High School

- Wood Technology
1. Special Project—2 credits

### Delaware-Chenango-Madison-Otsego BOCES

- Horticulture
1. Introduction to Floral Design—2 credits
  2. Introduction to Horticulture—2 credits
- Mechanical Technology
1. CAD—1 credit
  2. Drafting—2 credits
- Wood Technology
1. Special Project—2 credits
  2. Residential Construction—3 credits

### Elmira Free Academy

- Wood Technology
1. Special Project—2 credits

### Fairport High School

- Wood Technology
1. Special Project—2 credits

### Harold TEC Center

- Wood Technology
1. Residential Construction—3 credits

### Herkimer-Fulton-Hamilton-Otsego BOCES

Renewable Energy

### Homer High School

- Wood Technology
1. Special Projects—2 credits

### Jamestown High School

- Wood Technology
1. Special Projects—2 credits

### Madison-Oneida BOCES

- Wood Technology
1. Residential Structures—3 credits
  2. Special Projects—2 credits
- CAD/Drafting
1. CAD—1 credit
  2. Drafting—2 credits

### Morris Central High School

- Journalism
1. Desktop Publishing—3 credits

### Morrisville-Eaton Central School

- CAD/Drafting
1. CAD—1 credit
  2. Drafting—2 credits
- Journalism
1. Desktop Publishing—3 credits
- Office Technology
1. Keyboarding—up to 4 credits
  2. Word Processing I—3 credits
  3. Word Processing II—3 credits
- Student Success
1. First Year Experience—2 credits
- Wood Technology
1. Residential Structures—3 credits
  2. Special Projects—2 credits

**New Hartford Senior High School**

## Accounting

1. Accounting I—3 credits

**Oneida High School**

## Office Technology

1. Keyboarding—up to 4 credits
2. Word Processing I—3 credits
3. Word Processing II—3 credits

**Onondaga-Cortland-Madison BOCES**

## Wood Technology

1. Residential Construction—3 credits
2. Special Projects—1 credit

**Oswego County BOCES**

## Mechanical Technology

1. CAD—1 credit
2. Drafting—2 credits

**Otsego Northern Catskills BOCES**

## Wood Technology

1. Residential Construction—3 credits

**Pulaski High School**

## Mechanical Technology

1. CAD—1 credit
2. Drafting—2 credits

## Wood Technology

1. Residential Construction—3 credits

**Rome Free Academy**

## Office Technology

1. Keyboarding—up to 4 credits
2. Word Processing I—3 credits
3. Word Processing—3 credits

**Sandy Creek High School**

## Wood Technology

1. Special Projects—2 credits

**Saunders Trades and Technical High School**

- Residential Construction – up to 6 credits

**Shaker High School**

## Wood Technology

1. Special Project—2 credits

**South Glens Falls High School**

## Mechanical Drafting

1. CAD—1 credit
2. Drafting—2 credits

## Food Services

1. Quantity Food Preparation—3 credits
2. Keyboarding—1 credit

## Travel/Tourism

1. Global & Ethnic Foods—3 credits

**South Side High School**

## Wood Technology

1. Special Projects—2 credits

**Ticonderoga High School**

## Wood Technology

1. Special Projects—2 credits

## Travel and Tourism

1. Introduction to Travel and Tourism—3 credits
2. Keyboarding—1 credit

**Ulster County BOCES**

## Nursing

**Vernon-Verona-Sherrill Central School**

## CAD/Drafting

1. CAD—1 credit
2. Drafting—2 credits

**Ward Melville High School**

## Wood Technology

1. Special Project—2 credits

## Formal Articulation Agreements for Associate Degree Graduates

### Morrisville State College Transfer Pledge

Morrisville State College is making it easier for community college transfer students to earn their four-year degree. The Morrisville State College 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 Canton

*Degree from College*

AAS-Automotive Technology

*Degree to MSC*

BT- Automotive Technology

#### SUNY Delhi

*Degree from College*

AAS-Automotive Technology

*Degree to MSC*

BT- Automotive Technology

#### Herkimer County Community College

*Degree from College*

AAS- Mobile Application Development

*Degree to MSC*

BT- Information Technology: Application Software Development

#### Mohawk Valley Community College

*Degree from College*

AAS- Computer Information Systems

*Degree to MSC*

BT- Information Technology: Application Software Development

#### Onondaga Community College

*Degree from College*

AOS-Automotive Technology

AAS-Automotive Technology

AAS-Computer Information Systems

*Degree to MSC*

BT- Automotive Technology

BT- Automotive Technology

BT- Information Technology (Application Software Development, Web Development, End-User Support, Network Administration)

### 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 Morrisville State College. 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

#### Broome Community College

*Degree from CC*

AS-Criminal Justice-Corrections

AAS-Criminal Justice-Police

*Degree to MSC*

BT-Criminal Justice

BT-Criminal Justice

#### Cayuga Community College

*Degree from CC*

AS-Computer Information Technology

AS-Computer Information Technology

AAS-Computer Information Systems

*Degree to MSC*

BT-Information Technology(s)

BT-Information Technology (1506) Network Administration

BT-Information Technology (1506) Web Development

#### Corning Community College

*Degree from CC*

AS-Computer Information Science

*Degree to MSC*

BT-Information Technology (1506) Web Development

**Fulton-Montgomery Community College***Degree from CC*

AS-Computer Information Systems Program

*Degree to MSC*

BT-Information Technology (All Concentrations)

**Herkimer Community College***Degree from CC*

AAS/AS-Business: Accounting

AAS/AS-Business: Business Administration

AAS-Business: Human Resource Mgt.

AS-Business: International Business

AAS-Business: Marketing

AAS/AS-Business: Accounting

AAS/AS-Business: Business Admin.

AAS-Business: Human Resource Mgt.

AS-Business: International Business

AAS-Business: Marketing

AAS-Computer Network Technician

AAS-Computer Support Specialist

AAS-Small Business Management

AAS-Travel and Tourism Hospitality  
& Events Management

AS-Business: Accounting

AS-Business Administration

AAS-Travel and Tourism: Hospitality

&amp; Events Management Service Management

AS-Business: Business Administration

*Degree to MSC*

BT-Technology Management

BT-Technology Management

BT-Technology Management

BT-Technology Management

BT-Technology Management

BBA-Entrepreneurship and Small Business Management

BBA-Entrepreneurship and  
Small Business Management

BBA-Business Administration

BBA-Agricultural Business Development

BBA-Resort and Recreation

BBA-Business Administration

**Hudson Valley Community College***Degree from CC*

AAS-Accounting

AS-Business Administration

AAS-Business Administration

AAS-Marketing

AS-Computer Information Systems

AOS-Automotive Technology

*Degree to MSC*

BBA-Business Administration

BBA-Business Administration

BBA-Business Administration

BBA-Business Administration

BT-Information Technology Web Development

BT-Automotive Technology

**Jefferson Community College***Degree from CC*

AAS - Information Technology

*Degree to MSC*

BT-Information Technology (All Concentrations)

**Medaille College***Degree from College*

AAS-Veterinary Science Technology BT-Equine Science

*Degree to MSC***Mohawk Valley Community College**

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

*Degree from CC*

AAS-Accounting

AAS-Administrative Assistant

AS-Business Administration

AAS-Business Management

AAS-Financial Services Management

AAS-Web Site Design and Management

*Degree to MSC*

BT-Technology Management

BT-Technology Management

BT-Technology Management

BBA-Entrepreneurship and Small Business Management

BT-Technology Management

BBA-Entrepreneurship and Small Business Management

BT-Technology 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: Recreation Management	BBA-Entrepreneurship and Small Business 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	Degree to MSC
AS-Information Technology	BT-Information Technology (All Concentrations)

#### **Onondaga Community College**

Degree from CC	Degree to MSC
AAS-Individual Studies/Horticulture Certificate	BT-Horticulture Business Management
AAS-Culinary Management	BBA-Resort and Recreation Service Management
AAS-Hotel Management	BBA-Resort and Recreation Service Management
AAS-Food Service/Institutional Mgt	BBA-Resort and Recreation Service Management
AAS-Restaurant Management	BBA-Resort and Recreation Service Management

#### **SUNY Canton**

<i>Degree from College</i>	<i>Degree to MSC</i>
AAS-Veterinary Science Technology	BT-Equine Science

#### **SUNY Delhi**

<i>Degree from College</i>	<i>Degree to MSC</i>
AAS-Veterinary Science Technology	BT-Equine Science

#### **Utica School of Commerce**

<i>Degree from CC</i>	<i>Degree to MSC</i>
AOS-Business Administration/Acct.	BBA-Business Administration
AOS-Business Administration/Mgt.	BBA-Business Administration
AOS-Business Administration/General	BBA-Business Administration
AOS-Business Administration/Entr.	BBA-Business Administration

## 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 Morrisville State College and wish to complete an accelerated 1 year Master's degree program at Clarkson University, SUNY IT, or SUNY Oswego.

### **Morrisville State College**

*Degree from MSC*

BBA-Business Administration

BBA-Business Administration

BBA-Business Administration

*Degree to Clarkson University*

MBA-Business Administration

Degree to SUNY IT

MBA-Technology Management

Degree to SUNY Oswego

MBA-Business Administration

## Formal Articulations Agreements for Morrisville State College Associate Degree Graduates

The following are formalized articulation agreements for students who have completed a two-year degree at Morrisville State College, 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 Morrisville State College AAS/AS**

#### **Morrisville State College**

Bachelor of Business Administration in Entrepreneurship & Small Business Management

Bachelor of Technology in Technology Management

#### **Agriculture AAS**

Morrisville State College

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

#### **Architectural Studies & Design AS**

##### **Alfred State**

Bachelor of Science in Architectural Technology

Boston Architectural Center

Bachelor of Architecture in Architecture

#### **Automotive Technology / Autobody Technology AAS**

##### **Morrisville State College**

Bachelor of Technology Automotive Technology

Bachelor of Business Administration in Automotive Technology Management

**Business Administration AAS/AS****Morrisville State College**

Bachelor of Business Administration in Business Administration

**Computer Information Systems AAS****Morrisville State College**

Bachelor of Technology in Information Technology

**Computer Science AS****Rochester Institute of Technology**

Bachelor of Science in Computer Science

**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****Morrisville State College**

Bachelor of Science in Journalism &amp; Communication for Online Media

**Natural Resources Conservation AAS****Morrisville State College**

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 Poly Tech

Bachelor of Science in Nursing

**SUNY Upstate Medical University**

Bachelor of Science in Nursing

**Le Moyne College**

Bachelor of Science in Nursing

**Sports Nutrition & Fitness Management AS****Morrisville State College**

Bachelor of Science in Human Performance &amp; 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. Morrisville Auxiliary Corporation (MAC) offers five dining locations on campus and one restaurant off campus; each with its own unique niche:

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

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

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

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

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

The Copper Turret is an auxiliary owned restaurant located just off campus in the center of Morrisville. In addition to its role as a fully-operational fine dining establishment, the popular eatery serves as a learning laboratory for students in hospitality-related majors. Payments accepted are cash, Dining Plus, credit card, Mustang Money and \$6.75 meal plan equivalency.

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.

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

Seneca Dining Center: 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](http://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.

Our chefs will try to recreate your “family favorite” if you provide the recipe

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

Morrisville State College 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, and India. The office, which functions on a proactive and reactive level, brings the international students’ perspective to the college’s services, committees and programs. The office actively supports and encourages international students to become full participants in campus life.

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 Morrisville State College 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. The registrar is the college’s PDSO. 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.

In addition, the College has partnered with Cambridge Education Group to establish ONCAMPUS SUNY, an on-campus pathway program, which allows international students to enroll in an academic preparatory program operating from the premises of Morrisville’s campus. The establishment of the M-HUB enables new arrived international students to gain admission to, and obtain undergraduate and/or post-graduate degrees from, either Morrisville State College or one of a partnering SUNY College.

The International Education Office 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 [lawhorsl@morrisville.edu](mailto:lawhorsl@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](mailto:admissions@morrisville.edu). The PDSO can be reached in person in the Registrar’s Office, 3rd floor Whipple Administration Building, by telephone at 315.684.6066, by fax at 315-684-6421, or by e-mail at [whitnemd@morrisville.edu](mailto:whitnemd@morrisville.edu).

## 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. Counselors can meet with students individually or in groups to resolve these concerns. 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 many 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 Morrisville State College, 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.

### Academic Support

Academic Support is available to all Morrisville students free of charge. Most tutoring occurs at the Academic Enrichment Center located in 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.

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.

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

The principal mission of the Educational Opportunity Program (EOP) at Morrisville State College 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)

The goal of CSTEP is to provide research/internship/professional development opportunities, individual advisement, hands-on activities and recruitment efforts focused on increasing the number of historically underrepresented, or economically disadvantaged college students' entry and performance in STEM fields and targeted professions. A complete list of majors supported by CSTEP and information regarding the program and application process may be found on our web page [cstep.morrisville.edu](http://cstep.morrisville.edu). 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). 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 provided:

1. Examination and treatment for health problems, such as: upper respiratory infections, ear infections, urinary tract infections, orthopedic injuries, minor cuts and bruises.
2. Confidential psychiatric services
3. Family planning and counseling for men and women on a one-to-one basis
4. Testing and treatment for sexually transmitted diseases
5. Outreach services/programs to the college community regarding mental and physical health issues
6. Laboratory testing for throat cultures, urinalysis, pregnancy tests, etc. 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. Referrals made to specialists for surgical, orthopedic, ophthalmology, psychiatry, and other consultations.
9. Instruction regarding illness, medications, self-care, common college health conditions, prevention, etc.

### Requirements for service:

1. Must be a registered 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. PAP smears and testing for sexually transmitted diseases are done by appointment only
5. Mental health counseling done by appointment only
6. Anyone who presents with a physical emergency or mental health crisis will be treated

**Insurance:**

All students are required to have medical insurance. If a student is not covered under a family plan, the college 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 Morrisville State College 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 Morrisville State College 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 Morrisville State College 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 – an easy walk to every building on campus, with a shuttle bus available. 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.

Live with your friends next semester, in your own shared apartment. 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 the 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, general reading books, computer hardware and software, electronics, and miscellaneous items to enhance life at Morrisville State College.

Additional services include Shortline/Coach USA daily bus service, postage stamps, Western Union Services, and more. Like us on Facebook at [www.facebook.com/MorrisvilleCampusStore](http://www.facebook.com/MorrisvilleCampusStore) or visit us online at

<http://bookstore.morrisville.edu/>. Select either the Morrisville Campus Store or Norwich Campus Store button.

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 Point usage at dining facilities, building entrance at resident halls, computer labs and select classrooms, and it carries Mustang Money (a debit account for meal plans, vending machines, books, etc. which can be used both on campus and at certain off-campus locations), and Dining Plus Points which can be used at certain locations on and off campus. It also provides identification to check out materials at the campus Library. Students should obtain an ID card at the time of registration. The College ID Office is located at the MAC Technology Center in Hamilton Hall. Stop in anytime between 8:30 a.m. - 4:30 p.m., Monday – Friday, to add money to the card, check your balance, obtain a new ID card (\$5.00), or report the card lost or stolen. For more information call 315-684-6422

**MAX Shuttle**

MAX, Morrisville Area Xpress, is a campus shuttle service specifically

designed to support the commuting needs of Morrisville students. 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. Printable bus schedules are available at [www.morrisville.edu/max](http://www.morrisville.edu/max).

## Nelson Farms

Nelson Farms is Morrisville State College's small-scale food processing center located eight miles from the college in Nelson, N.Y. It serves New York farmers, small business owners and entrepreneurs in producing, packaging and marketing products. Morrisville State College students in several programs of study use Nelson Farms as an experiential laboratory, gaining real-world experience in agritourism, marketing, entrepreneurship, and value-added agriculture and development.

The Nelson Farms Country Store is a gourmet market which features products produced in the kitchens of Nelson Farms as well as other Pride of New York 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) or on Facebook at [www.facebook.com/NelsonFarmsCountryStore](http://www.facebook.com/NelsonFarmsCountryStore).

# STUDENT LIFE

The Morrisville State College 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

**Ursula Herz**

**Office: 315-684-6043**

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

## Residence Life

As a college of agriculture and technology, Morrisville State College 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 Morrisville State College 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 Morrisville State College 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 Morrisville State College 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 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 Morrisville State College. 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 student handbook, 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 Morrisville State College'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 Morrisville State College. 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.msccchimes.com](http://www.msccchimes.com).

#### 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 Morrisville State College students. College credit is available for participation.

#### Mustang Outreach & Volunteer Efforts (MOVE)

MOVE is dedicated to promoting, organizing, and facilitating community service at Morrisville State College. 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.

#### Open Recreation/Intramurals

A comprehensive program of on-campus intramural sports is offered at the college such that leagues, tournaments, and events are available for all students, regardless of athletic ability. In addition, more than 45 hours of

informal open recreation time is scheduled weekly. College facilities include two gymnasiums, a complete fitness center, the IcePlex ice arena, and recreational building housing a jogging track. Playing fields, tennis courts and a 400-meter synthetic track are available on the college grounds.

#### Student Government Organization (SGO)

The Student Government Organization (SGO) is an integral part of student activities at Morrisville State College, 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 Morrisville State College 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 Morrisville State College 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)

ASUBA provides students with real world experiences through team work and leadership. ASUBA encourages diverse college experience among students of all levels and backgrounds; "Dare to be different," ASUBA welcomes everyone from all walks of life.

#### 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).

#### Agronomy Club

The purpose is to stimulate an interest in plant and soil sciences, as well as provide the opportunity to experience such fields of study. Leadership opportunities are also an integral part of this organization.

#### Alpha Delta Mu (ADM)

This fraternity brings together those that share an interest in music; being a musician, however, is not a prerequisite. Pledge periods take place in both the fall and spring semesters.

#### 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 architectural films, sponsored events, volunteer service, with organizations such as the Madison Hall Association Incorporated and Habitat for Humanity, visiting urban areas and significant architecture works, touring architectural firms, and an annual trip to 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 (BSNA)**

The Bachelor of Science Nursing Association club was created to aid the BS 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 Morrisville State College and local churches. B.A.S.I.C. provides a pastoral care for the students of Morrisville State College, 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 Morrisville State College.

### **Caribbean American Student Union (CASU)**

The Caribbean American Student Union of Morrisville State College 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 Morrisville State College. 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 Morrisville State College 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.

### **Engineering Science Society**

The Society combines educational and social activities for students and faculty with an emphasis on science, math and engineering. Throughout the year, the society sponsors contests, field trips, and tours, as well as picnics and other student-faculty activities.

### **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 Teachers of America**

All students interested in teaching as a profession are welcome to join. The club works on service projects with elementary school and secondary school faculty, provides faculty mentors and encourages candid discussion and direction to teaching in a wide variety of levels and curriculum areas.

### **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 Morrisville State College.

### **Information Technology Club (ITC)**

The Information 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.

### **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.

### **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.

### **Sports, Nutrition, and Fitness Management (SNFM)**

This club, which is open to all students, promotes interest, fun, and education in the field of health and fitness. It is dedicated to providing social and professional development for its members, as well as to promoting health and fitness on campus and in the community.

### **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.

### **Writer's Club**

This club originated to provide a chance for students with a desire to write poetry and prose to listen and critique each other's work. The club publishes a literacy magazine called ECHO at the end of the academic year.

## **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 Morrisville State College 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, Morrisville State College Chapter (AIAS)**

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. The Morrisville chapter of the AIAS works in conjunction with the Architecture Club to organize and promote educational activities including trips, films, and sponsored events.

### **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 a National Business Honor Society for two-year schools. 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.

### **Students in the Free Enterprise (SIFE)**

SIFE is open to all Morrisville State College students. The Morrisville State College 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 Morrisville State College 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 Morrisville State College. 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**  
[www.morrisville.edu](http://www.morrisville.edu)

### Morrisville State College Intercollegiate Athletic Philosophy Statement

Morrisville State College 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.

Morrisville State College 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.

### Intercollegiate Athletics

#### MEN'S

basketball  
 cross country  
 equestrian  
 football  
 ice hockey  
 lacrosse  
 soccer  
 golf

#### WOMEN'S

basketball  
 cross country  
 equestrian  
 field hockey  
 ice hockey  
 lacrosse  
 soccer  
 softball  
 volleyball

*The Riding Team competes in Region II (Western) and Region III (Hunt Seat) of the Intercollegiate Horse Show Association.*

## Facilities

### Morrisville State College Stadium

The Morrisville State College 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, director of intramurals 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 Morrisville State College 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 basketball, volleyball, softball, and football coaching staffs.

## The Fitness Center

Personal fitness is extremely popular among students and faculty staff at Morrisville State College. 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 cardio fitness machines including treadmills, stationary bikes, stair climbers, and elliptical trainers. The Life Fitness 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 Morrisville State College IcePlex houses two regulation-sized rinks and serves as home ice for the Morrisville State College's Mustang Varsity Hockey Team, the Cazenovia High School Varsity program, Center State Youth Hockey Program, Blue Line Hockey School, Center State Figure Skating Club and Center State Speed Skating Club. Several community organizations also call the IcePlex home. The IcePlex hosts hockey tournaments and hockey camps, figure skating, speed skating, 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 [iceplex.morrisville.edu](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, outdoor tennis and basketball courts, and many playing fields used by the athletic department and the intramural department for practices and activities.

## MSC Intramurals and Open Recreation

At Morrisville, students can build strong minds and bodies. The Intramural Program at Morrisville State College 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 Morrisville State College 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 2013-14 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 and Goals

Morrisville State College 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, SUSTAINABILITY, BUSINESS & ENTREPRENEURSHIP

**Dean: Dr. Christopher Nyberg**  
Marshall Hall  
**Telephone: 315-684-6083 /6056**  
**Fax: 315-684-6125**  
**www.morrisville.edu**

Bachelor and associate degree programs housed within the School reflect the various needs of the agriculture industry, business, and hospitality 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, Morrisville State College's School of Agriculture, Sustainability, Business, and Entrepreneurship 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

**Accounting (A.A.S., A.S.)**

**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.)**

**Business Administration (A.A.S., A.S.)**

**Business Administration (B.B.A.)**

**Casino Careers Professional Development (Certificate)**

**Culinary Arts Management (A.A.S.)**

**Dairy Management (B.Tech.)**

**Diesel Equipment Technology (A.A.S.)**

**Diesel Technology (A.O.S.)**

**Entrepreneurship & Small Business Management (B.B.A.)**

**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 Physical Rehabilitation

**Equine Science and Management (A.A.S.)**

**Food Service Administration (A.A.S.)**

**Gaming and Casino Management (A.A.S.)**

**Horticulture (A.A.S.)**

Floral Design  
Horticulture Production  
Landscape Management

**Horticulture Business Management (B.Tech.)**

**Landscape Architectural Studies (A.S.)**

**Natural Resources Conservation (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)**

**Renewable Energy Technology (A.A.S.)**

**Renewable Resources Technology (B.Tech.)**

**Resort and Recreation Service Management: Technology Management (B.B.A.)**

**Restaurant Management (A.A.S.)**

**Technology Management (B. Tech.)**

Diesel Technology

General Management

Medical Office Technology

Renewable Energy

**Travel and Tourism/Hospitality Management (A.A.S.)**

## Facilities

The School of Agriculture, Sustainability, Business and Entrepreneurship operates an Agricultural Station comprised of aquaculture, crop, dairy, equine, forestry, horticulture, renewable energy, agricultural engineering, diesel technology and service components. The station is used as a research and teaching laboratory with specialized facilities for each of the various program areas. Additional laboratories include a restaurant commercial kitchen, travel agency, casino and security surveillance laboratory, and business and hospitality venues.

## Graduation Requirements

All graduates of the School of Agriculture, Sustainability, Business and Entrepreneurship 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.

## Transfer Agreement with Cornell University

Morrisville State College and Cornell University's College of Agriculture and Life Sciences have an agreement that guarantees transfer acceptance to the College of Agriculture and Life Sciences with junior status and the opportunity to complete a bachelor's degree if students from Morrisville State College (1) fulfill appropriate prerequisites as specified by Cornell; (2) have at least a 3.0 cumulative average for three semesters (except for Biological Sciences and Microbiology, which may require a 3.5 average); and (3) complete Cornell's transfer application and meet application deadlines.

## International Experience

In conjunction with other institutions, students at Morrisville State College 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 Morrisville State College or community colleges, continue into one of the bachelor degrees at Morrisville State College. Morrisville State 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.

Bachelor and associate degree programs housed within the School of Business 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.

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, computer and information technology, and office technology programs are fully accredited by the Accreditation Council for Business Schools and Programs (ACBSP). Morrisville State College is the only college of agriculture and technology in New York State to obtain ACBSP accreditation.

## Faculty and Facilities

Computer labs, a casino and security surveillance lab, including biometrics lab, commercial kitchen labs, a travel agency, internship experiences, modern facilities, and cooperative education experiences are all part of the Morrisville experience. The instructional techniques combine faculty lectures with computerized presentations and hands-on experience.

Faculty members in the school belong to several professional organizations including: the Association for Computing Machinery, 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/Motel Association, National Business Education Association, Society for Human Resource Management (SHRM) SUNY Business Council and the National Restaurant 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.

## International Program at Morrisville State College

The International Program at Morrisville State College includes all majors. Although housed in the School of Business, students from any major may elect this array of 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.

## 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, each of the departments has formally recognized student organizations to assist students with their academics as well as provide opportunities for socialization. The organizations include an Accounting Society, Casino Management Organization, International Honors Society (Eta Sigma Delta), International Food Service Executives' Association, Office Technology Club, the Honors Group, and Students in Free Enterprises.

## Kappa Beta Delta

The School of Business hosts the Rho Chapter of Kappa Beta Delta; an international honor society for ACBSP accredited business programs.

## 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 GENERAL STUDIES

**Dean: Jeannette H. Evans**

**Butcher Library**

**Telephone: 315-684-6067/6075**

**Fax: 315-684-6503**

**www.morrisville.edu**

The primary focus of the School of General Studies is to provide academic services and programs to all students on campus. Services housed in the School of General Studies, is comprised of the Office for International Education, Services for Students with Disabilities, Academic Support (tutoring), the A.O.E. Educational Opportunity Program (EOP), Campus Wide Advising, Science and Technology Entry Program (STEP) and the Collegiate Science/Technology Entry Program (CSTEP). Details of these campus wide services and programs can be found in The College Community portion of this catalog.

The School of General Studies also administers a campus-wide academic program.

### 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.

## 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 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 Morrisville State 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 Science: Adolescence Education (Teacher Transfer) (A.A., A.S.)**

**Liberal Arts and Science: Childhood Education (Teacher Transfer) (A.A., A.S.)**

**Liberal Arts and Science: Early Childhood Education (Teacher Transfer) (A.A., A.S.)**

**Liberal Arts and Science: 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 Morrisville State College 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.

## SCHOOL INFORMATION

### SCHOOL OF SCIENCE, TECHNOLOGY AND HEALTH STUDIES

Dean: Dr. Joseph H. Bularzik

Galbreath Hall

Telephone: 315-684-6079

Fax: 315-684-6024

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 Science (A.S.)**

**Computer Systems Technology (A.A.S.)**

**Computer-Aided Design Technology (A.A.S.)**

**Dietetic Technician – Food Service Administration (A.A.S.)**

**Health-Related Studies (A.S.)**

**Human Performance and Health Promotion (B.S.)**

**Information Technology: Application Software Development (B.Tech.)**

**Information Technology: Electronic**

**Marketing & 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.)**

**Residential Construction (A.O.S.)**

**Sports, Nutrition and Fitness Management (A.S.)**

**Wood Products Technology (A.A.S.)**

### 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 WCVM.

### Mathematics and Science Programs

The programs in Mathematics and Science have a two-fold responsibility. The first is to offer A.S. degree curriculums in biology and computer science, 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  
Website: www.eatright.org/ACEND

The associate degree in Nursing is accredited by the Accreditation Commission for Education in Nursing (ACEN).

Accreditation Commission for Education in Nursing (ACEN)  
3343 Peachtree Road NE, Suite 850  
Atlanta, Georgia 30326  
P. 404.975.5000 F. 404.975.5020

### 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.

Galbreath 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, computer science laboratory, and a teaching technology center. Recent additions include a manufacturing laboratory including CNC milling centers and CMM equipment.

A Wood Technology Building houses a complete modern sawmill, drying kilns, a pressure-treated wood preservation unit, several industrial-size saws for cutoff

and ripping; planers, jointers, routers, shapers, sanding equipment, plywood presses, strength testing equipment, and a finishing laboratory. A new 6,000 square-foot plumbing, heating, electricity, and structures laboratory provides a state-of-the-art environment for the Residential Construction majors.

The Sheila Johnson Design Center is a new building that was constructed on the former site of the college's historic dairy barn. The form of this building evokes the barn, and like the historic dairy barn, welcomes all at the entrance to the campus. This new structure houses the Architectural Studies and Design program. The building was designed and constructed by employing many sustainable strategies. Some of the visible 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 large 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, 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 feet 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 reaching 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-elevate 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 agricultural 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 125 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

Required Courses			Credits
AGBS	100	Agricultural Economics	3
		-or-	
AGBS	225	Environmental Economics	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	460	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 108	Business Law I	3
	-or-	
JOUR 272	Public Relations and Publicity Management	3
BSAD 221	Business Statistics	3
	-or-	
AGSC 137	Analysis and Inter of Ag Data	2
	-or-	
MATH 123	Elementary 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
<b>Electives</b>		<b>Credits</b>
BSAD/AGBS/AGNR Lower Level Electives		10
BSAD/AGBS/AGNR Upper Level Electives		10
General Electives Lower or Upper		6
<b>General Education Requirement</b>		<b>Credits</b>
MATH 102	Intermediate Algebra with Trigonometry	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
Social Science (as advised)		9
HIST		
Other world/Western Civ		
Social Science		
SPAN 101	Beginning College Spanish I	3
	Natural Science (as advised)	4
<b>Students must complete 12 credit hours in one of the following options:</b>		
<b>Marketing</b>		
BSAD 206	Promotion Management	3
BSAD 209	Salesmanship	3
BSAD 325	Marketing Management	3
BSAD 300	Management Communications	3
<b>General Agriculture</b>		
DANS/ESCI/AGR/BSAD (as advised)		12

## APPLIED PSYCHOLOGY – 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 and 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 Morrisville State College 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:

- a. Ability to analyze real world situations in terms of relevant psychological theories and predict likely results from potential interventions.
- b. Basic understanding of the methods social scientists use to understand the world, including correlations and experiments.
- c. Ability to perform basic statistical procedures and interpret the results.
- d. Demonstrate professional writing ability, including skills in various formats such as memos, technical papers, and note taking.
- e. 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.
- f. An understanding of different cultures and subcultures, and how cultural standards and norms influence behaviors.
- g. 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.

### Required Courses with credit hours:

#### Major Courses

PSYC 101	Intro to Psychology	3
PSYC 103	Intro 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 410	Senior Seminar in Psychology	3
PSYC 406	Internship in Applied Psychology	12
PSYC 461	Tests and Measures	3
- Two of the following four courses:		
PSYC 221	Biological Psychology	3
PSYC 241	Child Development	3
PSYC 242	Adolescent Development	3
PSYC 251	Abnormal Psychology	3
- Two of the following five courses:		
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
	Total	43

**Required Courses**

BSAD 100	Business in the 21st Century	3
CITA 101	Principles of Computers and Applications	3
	Humanities elective (as advised)	3
	Social Science elective (as advised)	3
COMP 310	Advanced Technical Communications	3
	Total	15

**Diversity Course**

One of the following four courses:

ANTH 101	Introduction to Anthropology	3
HIST 225	Women in the US	3
PSYC 283	Psychology of Gender	3
SOCI 250	Social Gerontology	3

**BUSINESS CONCENTRATION**

BSAD 116	Business Organization and Management	3
BSAD 215 or 310	Human Resource Management	3
BSAD 411	Leadership in Organizations	3
	Business elective (as advised in consultation with faculty)	3

**-OR-**

**HUMAN SERVICES CONCENTRATION**

HUMS 101	Intro to Human Services	3
HUMS 201*	Counseling and Case Management	3
SOCI 360*	Social Movements & Community Change	3
	Human services elective (as advised)	3

\*NOTE: HUMS 201 requires SOCI 101 and SOCI 360 requires SOCI 201 as pre-requisites. These courses are taken as electives.

Total (Concentration) 12

**SUNY General Education Courses**

COMP 101	Composition and Research	3
COMP 102	Writing about Literature	3
COMM 111	Intro to Speech	3
	Two courses from one history sequence	
HIST 101, 102 or 103	American History	6
	-or-	
HIST 151, 152	World History	6
	-or-	
HIST 161, 162	European History	6
	Two courses from one language sequence (as advised)	6
MATH 102	Intermediate Algebra w/Trig	3
	Biology + lab (as advised)	3 + 1
	Additional General Education Course as advised	3
	Total	31

**Elective Courses**

Open electives	15
300 – 400 level elective	6

“Open electives” may be at the lower (100- 200) or upper (300- 400) level.

**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 Morrisville State College 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 tra-

ditional Associate in Applied Science Degree, adding a business management emphasis at the baccalaureate 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 Morrisville State College’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, 126 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.

### REQUIRED CORE COURSES

Major Core	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	
	-or-	
AUTO 259	Auto Body Non-structural Repair and Refinishing	5
AUTO 261	Automotive AC and Heating	3
AUTO 309+	Advanced Automotive Chassis	4
AUTO 355+	Advanced Automotive Diagnostics	3
AUTO 359+	Collision and Business Management	3
AUTO 360+	Automotive Shop Management & Supervision	3
AUTO 371+	Advanced Powertrain Management	3
AUTO 380+	Automotive Parts Inventory Management and Merchandising	3
AUTO 400+	Automotive Fleet Maintenance	3
AUTO 420+	Automotive Industry Internship Orientation	1
AUTO 421+	Automotive Industry Internship	12

### ADDITIONAL REQUIRED COURSES

BSAD 112	Marketing	3
BSAD 116	Business Organization & Management	3
BSAD 300+	Management Communications	3
BSAD 400+	Production & Operations Management	3
BSAD 310	Human Resource Management	
	-or-	
RENG 306+	Alternate Fuel Systems	2
COMP 110	Technical Communications	3
COMP 101*	Composition and Research	3
MATH 102*	Intermediate Algebra with Trigonometry	3
PHYS 107*	Introductory Physics I	4
PSYC 101*	Introduction to Psychology	3
PSYC 304*+	Industrial/Organizational Psychology	3
REQUIRED COURSE CREDITS		112
SUNY GENERAL EDUCATION CREDITS <sup>1</sup>		14
ELECTIVE COURSE CREDITS NEEDED		14
TOTAL PROGRAM CREDITS		126

\*Courses on the SUNY General Education list

+Upper Division Courses

The program contains the 45 upper division credits within the required courses

<sup>1</sup> NAT SCI, BC, MATH and SS categories are fulfilled in the required courses

Three additional SUNY General Education courses are needed to fulfill the 7 categories requirement

Fourteen additional SUNY General Education credits are needed to fulfill the SUNY General Education requirement

## 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 Morrisville State College'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, 124 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.

COURSE	CREDIT	
<b>REQUIRED CORE COURSES</b>		
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 138	Career Awareness	1
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 359+	Collision and Business Management	3
AUTO 360+	Automotive Shop Management & Supervision	3
AUTO 380+	Automotive Parts Inventory Management and Merchandising	3
AUTO 400+	Automotive Fleet Maintenance	3
AUTO 420+	Automotive Industry Internship Orientation	1
AUTO 421+	Automotive Industry Internship	12

### ADDITIONAL REQUIRED COURSES

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+	Marketing Management	3
BSAD 350+	Principles of Corporate Finance	3
BSAD 449+	Management Policy and Issues	3
CITA 101	Principles of Computers & Applications	3
CITA 405+	Project Management	3
COMP 110	Technical Communications	3
COMP 101*	Composition and Research	3
MATH 102*	Intermediate Algebra with Trigonometry	3
PHYS 107*	Introductory Physics I	4
PSYC 101*	Introduction to Psychology	3
PSYC 304+*	Industrial/Organizational Psychology	3

REQUIRED COURSE CREDITS	110
SUNY GENERAL EDUCATION CREDITS* <sup>1</sup>	14
ELECTIVE COURSE CREDITS NEEDED	14
TOTAL PROGRAM CREDITS	124

\*Courses on the SUNY General Education list

+Upper Division Courses

The program contains the 45 upper division credits within the required courses

1 NAT SCI, BC, MATH and SS categories are fulfilled in the required courses

Three additional SUNY General Education courses are needed to fulfill the 7 categories requirement

Fourteen additional SUNY General Education credits are needed to fulfill the SUNY General Education requirement

## 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.*

Morrisville State College'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 over 700 different occupations in each of 10 regions statewide. For management occupations overall (SOC Code 11-000), the projections indicate an anticipated +10% growth for the 10-year period ending in 2014. The Business Administration degree responds to the growing number of students with an interest in planning and directing the management, business, and financial activities of business, government and other organizations. Employed in multiple industries across all sectors of the economy, the job outlook for graduates is expected to increase in New York State by 2.0 million, or 10% by 2014. Persons interested in the field of business will generally need at least a bachelor's degree in business, human resources or finance.

**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

### Required Business Courses

		Credits
BSAD 100	Business in the 21 <sup>st</sup> Century	3
BSAD 108	Business Law I	3
BSAD 140	Business Communications	3
BSAD 116	Business Organization and Mgmt.	3
BSAD 221	Business Statistics	3
BSAD 203	Business Law II	3
	Lower Level Electives (as advised)	15
BSAD 310	Human Resources Management	3
BSAD 325	Marketing Management	3
BSAD 350	Principles of Corporate Finance	3
BSAD 300	Management Communication	3
BSAD 320	Entrepreneurship	3
BSAD 375	Management Information Systems	3
BSAD 380	International Business	3
BSAD 400	Production and Operations Mgmt.	3
BSAD 408	Responsible Business Ownership	3

BSAD 411	Leadership in Organizations	3
BSAD 470	Strategic Management	3
	Upper Level Electives (as advised)	12

### Required Accounting & Computer Courses

ACCT 101	Principles of Accounting	3
ACCT 102	Principles of Accounting II	3
CITA 101	Principles of Computer Applications	3

### General Education Requirements (7 out of 10 categories)

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
ECON 100	Economics I	3
ECON 140	Economics II	3
MATH 153	Business Calculus	3
	Natural Science	3-4
	The Arts	3
	Foreign Language	3
	American Hist.	3
	Western Civilization	3
	World Civilization	3

### Suggested electives for Marketing Concentration (Select 12 Credits)

BSAD 327	Advertising Management	3
BSAD 329	Consumer Behavior	3
BSAD 391	Internship in Business	3
BSAD 419	Global Marketing	3
ENTR 327	Guerrilla Marketing	3

### Suggested electives for Entrepreneurship Concentration (Select 12 Credits)

BSAD 330	Leading and Managing the Family Business	3
BSAD 465	Management Consulting	3
BSAD 391	Internship in Business	3
ENTR 327	Guerrilla Marketing	3
ENTR 342	Innovation & Venturing Creation	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 officers 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 and in security-related fields in private industry.

**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: 21 Credits minimum

### Program Learning Outcomes:

Upon successful completion of this program, students will be able to:

- Exercise professionalism in executing duties in law enforcement and other criminal justice careers.
- Incorporate technological advances to processing evidence and to support criminal justice objectives and operations.
- Identify, collect, and preserve evidence according to standard police practice.
- Competently construct emergency plans, mutual aid agreements and interagency cooperation to insure public safety.
- Acknowledge and predict diversity and cultural influences in human behavior, particularly in stressful events.
- Assess nationally accepted procedures and concepts in emergency preparedness.
- Critique the varying goals and priorities of the many disciplines in the criminal justice system.

### Required Courses

Major Core 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	Basics of Penal Law	3
CJUS 231	Criminal Procedure Law	3
CJUS 301	Crime Scene Investigation & Management	3
CJUS 311	Interviewing Techniques in Criminal Justice	3
CJUS 414	Investigation of Staff Misconduct/Workplace Violence	3
CJUS 449	CJ Internship Preparation	1
CJUS 450	CJ Internship	15

### Criminal Justice Elective Courses (12 credits required)

CJUS 310	Serial Murder in Criminal Justice	3
CJUS 312	Victimization	3
CJUS 315	White Collar Crime	3
CJUS 401	Emergency Planning & Response	3
CJUS 402	Terrorism and Law Enforcement	3
CJUS 403	Private Security	3
CJUS 412	Arson and Bomb Investigations	3
CITA 275	Computer Crimes and Digital Forensics	3
CJUS 412	Arson and Bomb Investigations Technical Sequence (As advised)	3 9

### Required Elective Courses

PSYC 101	Introduction to Psychology	3
POLI 113	American Judiciary System	3
PHED		3
	-or-	
WELL	Wellness or Physical Education (as advised) (WELL 101 recommended)	3
	Additional Semester Foreign Language	3
PHIL 311	Professional Ethics	3
COMP 310	Advanced Technical Writing	3
CITA 101	Principles of Computers & Applications	3

### SUNY General Education Courses

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
SOCI 101	Introduction to Sociology	3
MATH	Competency through Math 102	3
	Foreign Language	3
	Science (as advised)	3-4
HIST	American History or Western Civilization	3
GNED 100	Freshman Experience	2

**Elective Courses**

Electives (as advised) 8

**Technical Sequence (Samples)** Students in consultation with advisor and faculty in the technical area 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 200	Data Comm. & Networking	3
CITA 270	Fund Network Security	3
CITA 275	Computer Crimes and Digital Forensics	3
STS 316	Investigating Cyberculture	3

**NATURAL RESOURCES**

Course	Credits	
NATR 110	Natural Resources Measurements	3
NATR 120	Intro to Recreation Area Management	3
ENSC 106	Pesticide Use and Handling	2
ENVT 100	Intro to Environ. Technology	3
RENG 102	Renewable Energy Resources	3
RREN 305	Renewable Resources Law/Regs	3
RREN 303	Fundamentals of GPS/GIS	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

**ADOLESCENTS AND CRIMINAL JUSTICE**

Course	Credits	
CJUS 235	Juvenile Delinquency	3
PSYC 242	Adolescent Development	3
COMM 131	Small Group Discussion	3
COMM 121	Theories Interpersonal Communication	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
SOCI 390	Urban Sociology	3
STS 316	Investigating Cyberculture	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 2.3 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.

**Cornell Dairy Management Exchange:** An articulation agreement with Cornell University's College of Agriculture and Life Sciences and the Department of Animal Science has been developed. As an option of the B.Tech, a one-semester residency at Cornell University has been arranged for students in the four-year program. This experience, formerly called Cornell Dairy Management Experience, will allow the student to take upper level courses in animal science and farm business management. Students also have the options of participating in the W. H. Miner Agricultural Research Institute's Advanced Dairy Management Program or a directed dairy-related internship.

**Graduation Requirements:** Graduation requirements for the Dairy Management B.Tech. include a minimum of 125 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

Required Courses		Credits
DANS 100	Dairy Nutrition	3
DANS 110	Dairy Breeding	3
DANS 115	Dairy Artificial Insemination	1
DANS 120	Anatomy and Physiology	3
DANS 140	Dairy Cattle Judging	1
DANS 150	Dairy Farm Practicum (BARN DUTY)	1
DANS 151	Dairy Techniques (SHARRP'S)	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	Cornell Dairy Management Exchange	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
AGBS 200	Marketing of Agricultural Products	3
AGBS 240	Farm Management and Finance	4
AGBS 305	Agricultural Financial Decision Making	3
AGBS 405	Capstone for Farm Managers and Rural Entrepreneurs	3
AGRO 110	Soil Science	3
AGRO 210	Field Crop Management	3

AGRO 310	Pasture Management	3
	Upper 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 Agriculture Data	2
AGSC 350	Animal Genetics	3
AGSC 132	Introduction to Computer Applications in Precision Farming	2
	-or-	
OFFT 110	Introduction to Spreadsheet Software And one of the following 3 OFFT courses	1
OFFT 100	Introduction to Word Processing Software	1
OFFT 106	Personal Computer Keyboarding	1
OFFT 109	Introduction to Presentation Software	1
ACCT	(as advised)	3
MATH	(as advised)	3
	Social Science (as advised)	3
	Western Civilization (as advised)	3
	American History (as advised)	3
SPAN 101	Beginning College Spanish I	3
	Natural Science (as advised)	3
	General Elective	5

## SUGGESTED ELECTIVES

### Agricultural Courses

AGBS 305	Agricultural Financial Decision Making	3
AGBS 405	Capstone for Farm Managers and Rural Entrepreneurs	3
AGEN 105	Principles of Farm Machinery	2
AGEN 125	Residential Electrification	3
AGEN 140	Welding	3
AGEN 145	Agricultural Building Systems	3

### Liberal Arts and Business Courses

BSAD 221	Business Statistics	3
COMM 111	Introduction to Speech	3
BSAD 108	Business Law I	3
BSAD 212	Principles of Finance in Management	3
BSAD 215	Human Resources Management	3
BSAD 104	Organizational Behavior	3
BSAD 208	Introduction to Total Quality Management	3
BSAD 100	Business in the 21st Century	3

## ENTREPRENEURSHIP AND 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.

### 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
	Professional elective	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
ENTR 338	Legal Issues for the Entrepreneur	3
ENTR 327	Guerrilla Marketing Tactics for Small Business	3
ENTR 417	Creating the Business Venture	3
ENTR 474	Preparation for Field Study	3
ENTR 475	Practicum in Entrepreneurship/Business Consulting	15

## 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 Morrisville State College Equine Rehabilitation Center (MSCERC) 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:** Morrisville State College 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 128 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). Demonstrated proficiency through MATH 102 - Intermediate Algebra with Trigonometry is required for completion of 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:

- 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. 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.

Most Equine Science B.Tech students 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

**Equine Science General Requirements:** Must complete a minimum of 128 credits with a 2.0 or greater GPA

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
AGSC	350 Animal Genetics	3
BIOL	Biology (2 4-credit courses with lab, (as advised))	8
	-or-	
CHEM	Chemistry (2 4-credit courses 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
	General Education Courses (as advised)	6

## Electives

### EQUINE SCIENCE AND MANAGEMENT OPTION

(Draft/Driving or Hunt Seat or Western concentrations)

Class	Credits	
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

(Thoroughbred or Standardbred concentrations)

Class	Credits	
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

Class	Credits	
ESCI 320	Equine Youngstock Management	1
ESCI 340	Equine Promotion and Sales	3
ERID 350	Advanced Equine Specialization II	4
ESCI 400	Advanced Equine Reproduction and Stud Management	4

### EQUINE REHABILITATION AND THERAPY OPTION

Class	Credits	
ESCI 325	Equine Rehabilitation I	4
ESCI 365	Equine Rehabilitation II	4
ESCI 415	Equine Rehabilitation III	4

Note that ESCI 415 is a co-requisite for ESCI 365

### EQUINE BUSINESS MANAGEMENT OPTION

Choose 12 credit hours of business related coursework from the suggested list of electives below:

Class	Credits	
AGBS 305	Agricultural Financial Decision Making	3
AGBS 350	Agriculture Business Development	3
AGBS 400	Agriculture Product Market and Distribution	4
AGBS 405	Capstone for Farm Manager	3
AGBS 450	Agriculture Policy and Dev.	3
AGBS 460	International Ag. Marketing	3
AGBS 480	Retailing Agriculture Products	3
BSAD 300	Management Communications	3
BSAD 310	Human Resources	3
BSAD 320	Entrepreneurship	3
BSAD 325	Analytical Marketing	3
BSAD 350	Principles of Corporate Finance	3
BSAD 354	Financial Management and Modeling	3
BSAD 375	Management Information Systems	3
BSAD 380	International Business	3
BSAD 400	Production and Operations Management	3
BSAD 408	Responsible Business Ownership	3
BSAD 411	Leadership in Organizations	3
BSAD 415	International Human Resources Management	3
BSAD 417	International Financial Management	3
BSAD 419	Global Marketing	3
BSAD 449	Management Policy and Issues	3
BSAD 470	Strategic Management	3
CITA 405	Project Management	3

### SUGGESTED ELECTIVES (may have pre-requisites)

Class	Credits	
Any AGBS, ENTR, BSAD 300 or 400 level course including but not limited to:		
ACCT 102	Principles of Accounting I	3
ACCT 201	Intermediate Accounting	3
AGBS 305	Agricultural Financial Decision Making	3

AGBS 350	Agriculture Business Development	3
AGBS 400	Agriculture Product market and Distribution	4
AGBS 405	Capstone for Farm Manager	3
AGBS 450	Agriculture Policy and Dev.	3
AGBS 460	International Ag. Marketing	3
AGBS 480	Retailing Agriculture Products	3
AGEN 102	Agricultural Equipment Operation	3
AGEN 105	Principles of Farm Machinery	3
AGNR 400	Instructional Assistance Experience	1-4
AGRO 210	Field Crops	3
BIOL 285	Microbiology	4
BSAD 104	Organizational Behavior	3
BSAD 108	Business Law I	3
BSAD 112	Marketing	3
BSAD 212	Principles of Finance in Management	3
BSAD 216	Problems in Human Resource Management	3
BSAD 300	Management Communications	3
BSAD 310	Human Resources	3
BSAD 320	Entrepreneurship	3
BSAD 325	Analytical Marketing	3
BSAD 350	Principles of Corporate Finance	3
BSAD 354	Financial Management and Modeling	3
BSAD 375	Management Information Systems	3
BSAD 380	International Business	3
BSAD 400	Production and Operations Management	3
BSAD 408	Responsible Business Ownership	3
BSAD 411	Leadership in Organizations	3
BSAD 415	International Human Resources Management	3
BSAD 417	International Financial Management	3
BSAD 419	Global Marketing	3
BSAD 449	Management Policy and issues	3
BSAD 470	Strategic Management	3
CITA 405	Project Management	3
COMM 111	Introduction to Speech 3	3
ERID 330	Equine Instruction Methodology	1
ESCI 300	Internship in Equine Science	4
ESCI 410	Equine Exercise Physiology	2
JOUR 111	News Writing and Reporting	4
JOUR 272	Public Relations and Publicity Management	3

All students should seek advisement concerning the proper sequence of courses related to their area of interest.

## 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 Morrisville State College 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.

#### Required Core Courses

		Credits
HORT	101 Plant Materials	3
HORT	103 Landscape Planning & Design I	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	201 Plant Propagation	3
HORT	202 Greenhouse Production	3
HORT	210 Horticulture Practices II	2
HORT	241 Plant Protection	3
HORT	310 Horticulture Practices III	2
HORT	320 Horticulture Internship Orientation	1
HORT	410 Horticulture Practices IV	2
HORT	430 Horticulture Business Development	3
HORT	440 Horticulture Business Internship	15
AGEN	103 or 110 or (as advised)*	2
	Upper Division (300/400 level) elective	3
	Free elective	3

#### Required Business & Computer Courses

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
BSAD	300 Management Communications or as advised*	3
BSAD	310 Human Resource Management or as advised*	3
BSAD	320 Entrepreneurship or as advised*	3
BSAD	325 Analytic Marketing or as advised*	3
AGBS	400 Marketing and Distribution of Ag Products or as advised*	4
CITA	Prerequisite(s) as advised* (for example: CITA 125 for CITA 335; CITA 101 OR OFFT 109 and OFFT 109 for BSAD 116)	6
CITA	335 Enabling Technologies for Electronic Commerce or as advised*	3

#### Suggested Electives

ACCT	101 Principles of Accounting I	3
AGEN	135 Construction Surveying	3
AGRO	110 Soil Science	3
ENSC	106 Pesticide Use and Handling	2
ENSC	107 Integrated Pest Management	1

HORT	105 Landscape Planning and Design II	3
HORT	106 Floral Design	3
HORT	150 Fruit and Vegetable Production	3
HORT	250 Horticulture Internship	4
AGNR	400 Instructional Assistance Experience	4

Also see other Horticulture options.

#### Suggested Alternatives for Business/Computer Course

##### Requirements

ENTR	320 Accounting for Entrepreneurs (prereq MATH 102)	3
PHIL	311 Professional Ethics (satisfies SUNY GENED for Humanities; prereqs-101 COMP 101 & introductory philosophy course or permission of instructor)	3
PSYC	304 Industrial/Organizational Psychology (satisfies SUNY GENED for Social Science; PSYC 101 prereq)	3

#### GENERAL EDUCATION REQUIREMENTS

(minimum 30 hrs; in 7 categories: section VI Academic Information in college catalog)

COMP	101 Composition and Research (BC)	3
COMP	110 Technical Communications (BC)	3
BIOL	102 Botany, Form and Function (NS)	3
SPAN	101 Beginning College Spanish I (FL)	3
ECON	100 Intro to Macroeconomics (SS)	3
	Math Elective** (M)	3
	6th Gen Ed category* (section VI Academic Information in college catalog)	3
	7th Gen Ed Category* (section VI Academic Information in college catalog)	3
	Other Gen Ed Electives as advised*	6

\* (as advised) – Choice of course based on a consultation with the student's advisor.

\*\*Math competency through Math 102 is required for this program.

## HUMAN PERFORMANCE AND 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 individu-

als 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

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
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
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
<b>ADDITIONAL REQUIRED COURSES</b>	
NUTR 110 Nutrition I	3
NUTR 250 Sports Nutrition	3
PHYS 107*^ Introductory Physics I	4
BIOL 120*^ General Biology4	4
BIOL 150*^ Human Anatomy and Physiology I	4
BIOL 151*^ Human Anatomy and Physiology II	4
MAST 100 CPR for Health Professionals	1
COMP101*^ Composition and Research	3
COMP310*^ Advanced Technical Communications	3
COMM 111*^ Introduction to Speech	3
MATH141*^ Statistics	3
MATH151*^ Analytical Geometry and Calculus I	3
SOCI 250*^ Social Psychology	3
PHIL 201*^ Introduction to Philosophy	3
PHIL311*^+ Professional Ethics	3
PSYC 101*^ Introduction to Psychology	3
PSYC384*^+ Group Behavior	3
PSYC386*^+ Social Psychology	3
REQUIRED COURSE CREDITS	102
SUNY GENERAL EDUCATION CREDITS* <sup>1</sup>	6
LIBERAL ARTS AND SCIENCE ELECTIVE CREDITS <sup>2</sup>	5
GENERAL EDUCATION CREDITS <sup>3</sup>	7
ELECTIVE COURSE CREDITS NEEDED	18
TOTAL PROGRAM CREDITS	120

\*Courses on the SUNY General Education list

^Courses on the Liberal Arts and Science list

+Upper Division Courses

The program contains the required 45 credits within the required courses

<sup>1</sup>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

<sup>2</sup>Five additional Liberal Arts and Science credits are needed to fulfill the 60 credit requirement

<sup>3</sup>Seven additional credits are needed to fulfill the 120 credit requirement for a BS program

## 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 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 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

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
CITA 110 Computer Applications I	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	
1CITA 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

**ADDITIONAL REQUIRED**

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+	Analytic Marketing	3
BSAD 350+	Principles of Corporate Finance	3
BSAD 400+	Production and Operations Management	3
BSAD 449+	Management Policies and Issues	3
BSAD	ELECTIVE	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

**COURSES**

REQUIRED COURSE CREDITS	97
SUNY General Education Credits* <sup>1</sup>	18
General Elective Credits <sup>3</sup>	5
ELECTIVE COURSE CREDITS NEEDED	23
TOTAL PROGRAM CREDITS	120

\*Courses on the SUNY General Education list  
+Upper Division Courses

The Program contains the 45 upper division credits within the required courses

<sup>1</sup> 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

<sup>3</sup> Five additional credits are needed to fulfill the 120 credit requirement for a BBA degree

## INFORMATION TECHNOLOGY

### B.TECH. – CODE #1502, 1503, 1504, 1505, 1506

**Application Software Development Code #1502**

**Electronic Marketing & Publishing Code #1503**

**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 programmer, 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 development software applications.
- Utilize a formal project management methodology to plan and track development progress.
- Analyze economic feasibility of an IT product.

**Electronic Marketing & Publishing**

- Create a multimedia marketing campaign.
- Integrate audio, video, animations, and data into one functional, interactive production.
- Produce animated electronic content for different media devices.
- Design, evaluate and improve user interface designs.

**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

## REQUIRED CORE COURSES

### Application Software Development

CITA 110	Computer Applications I	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
CITA 480	Information Technology Internship	12
CITA	Electives (as advised, 3 upper)	6

### Electronic Marketing and Publishing

CITA 110	Computer Applications I	3
CITA 120	Computer Concepts & Operating Systems	3
CITA 140	Introduction to Programming	3
CITA 200	Data Communications and Networking	3
CITA 210	Visual Programming & Development Tools	3
CITA 260	Photography and Digital Imaging	3
CITA 330	Web Publishing	3
CITA 380	Dynamic Graphics and Animation	3
CITA 385	User Interface Design	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
CITA 480	Information Technology Internship	12
CITA	Electives (as advised, 3 upper)	6

### End-User Support

CITA 110	Computer Applications I	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
CITA 480	Information Technology Internship	12
CITA	Electives (as advised, 3 upper)	6

### Network Administration

CITA 110	Computer Applications I	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 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
CITA 480	Information Technology Internship	12
CITA	Electives (as advised, 3 upper)	6

### Web Development

CITA 110	Computer Applications I	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 450	Applied Database Management	3
CITA 460	Organization & End-User Info Systems	3
CITA 480	Information Technology Internship	12
CITA	Electives (as advised, 3 upper)	6

### ADDITIONAL REQUIRED COURSES

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

REQUIRED COURSE CREDITS	85
SUNY General Education Credits* <sup>1</sup>	24
General Elective Credits <sup>3</sup>	11
ELECTIVE COURSE CREDITS NEEDED	35
TOTAL PROGRAM CREDITS	120

\*Courses on the SUNY General Education list

+Upper Division Courses

The Program contains the 45 upper division credits within the required courses

<sup>1</sup>MATH 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

<sup>3</sup>Eleven additional credits are needed to fulfill the 120 credit requirement for a B. Tech. degree

## JOURNALISM AND 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.*

Morrisville State College 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 Morrisville State 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

#### Required Courses

Major Core 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	
JOUR	401	Legal & Ethical Issues of Mass Communication	3
JOUR	409	Pre-Internship Seminar	1
JOUR	410	Internship in JCOM	-12
-or-			
JOUR	411	Capstone Course in JCOM	3

**Total Credits** 44

#### Other Required Courses

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
Two of the following three courses			6
PSYC	304	Industrial/Organizational Psychology	
PSYC	384	Group Behavior	
PSYC	386	Social Psychology	
COMP	101	Composition and Research	3
COMP	102	Writing About Literature	3
SUNY GER Math Requirement			3
Additional SUNY GER Credits in at least 3 additional categories			9
Additional Liberal Arts requirement (must have 60 credits total)			24
Total Credits			69

#### General Electives

Must be at 300-level or higher			9
Total Credits			9

## 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. Students can select one of three program tracks: Wind/Solar/Hydro Track, Bioenergy Track, or a General Track.

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 MSC. 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 43 liberal arts and sciences, with a minimum of 16 credits of Natural Sciences in at least two discipline areas of Chemistry, Biology, or Physics, and demonstrated proficiency through MATH 141 (Statistics). 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

### Major Requirements (26 credits required)

		Credits
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
ELEC 190	Electrical Theory I	4
-or-		

DTEC 125	Diesel Electrical Systems	4
ELEC 291	Electromechanical Energy Devices	3
-or-		
AGEN 125	Residential Electrification	3
OFFT 110	Introduction to Spreadsheet Software	1

### Upper-Division Major Electives (21 credits required)

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 490	Renewable Energy Internship	3-15
RREN 450	Renewable Resource Internship Orientation	1

### Technical Electives

As Advised (30 credits required, see Major and Recommended Electives)

### Liberal Arts and Sciences

(43 credits required)

	General Sciences (Physics, Chemistry, Biology, as advised)	16
	Mathematics (as advised, through MATH 103 and 141)	9
COMP 101	Composition and Research (Basic Communications)	3
COMP 102	Writing about Literature (Humanities)	3
COMP 310	Advanced Technical Communication (Humanities)	3
	American History	3
	Western Civilization/Other World Civilization/Art/Foreign Language	3
	Social Science (e.g. PSYC 101, PHIL 101, ECON 100, etc.)	3

### Major Required Courses

Upper-division Major Electives	21
Other Electives	30
Liberal Arts & Sciences	43

**TOTAL 120**

### Recommended Technical Electives (as Advised)

Also see Major/Core Electives above.

#### Lower division

AGRO 110	Soil Science	3
AGRO 210	Field Crops	3
AUTO 102	Metals	3
AGEN 161	Basic Hydraulics	3
CAD 181	Intro to CAD	1
CAD 183	Architectural CAD	3
DTEC 150	Diesel Systems	3
ELEC 290	Digital Circuits and Microprocessors	3
ENSC 101	Agricultural Science	3
ENSC 106	Pesticide Use and Handling	2
ENSC 107	Integrated Pest Management	1
MECH 101	Machine Tools	3
MECH 211	Analytical Mechanics (Statics)	3
RENG 225	Tower Climbing and Rescue	2
RENG 251	Anaerobic Digester Design and Operation	3
RESC 130	Light Framing	3
RESC 221	Plumbing	3
RESC 260	Heating and Energy Systems	3

#### Upper Division

AGRO 310	Pasture Management and Forage Production	3
ENTR 320	Accounting for Entrepreneurs	3
RENG 306	Alternative Fuel Vehicles	3
RREN 303	Fundamentals of GPS/GIS	3

RREN 332	Environ. Planning and Nat. Res. Management	3
RREN 412	Ecosystem Impact Management	3
STS 301	Humans vs. Nature	3

## 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.

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 (see catalog section titled Academic Information: SUNY General Education Requirements).

**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.

**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

COURSE	Credits	
BSAD 116	Business Organization and Management	3
BSAD 221	Business Statistics	3
	-or-	
MATH 123	Elementary Statistics	3
BSAD 300	Management Communications	3
RREN 420	Geospatial Technology Applications III	2
RREN 420	Geospatial Technology Applications I	1
RREN 421	Geospatial Technology Applications II	2
CITA 405	Project Management	3
	-or-	
RENG 3XX	300 level Renewable Energy Course (as advised)	3
ENVT 345	Surface and Ground Water Management	3
PHIL 311	Professional Ethics	3
RREN 302	Riparian and Wetland Management	3
RREN 303	Fundamentals of GPS/GIS	3
RREN 305	Renewable Resource Laws and Regulations	3
RREN 312	Aquatic Field Techniques	3
RREN 332	Environmental Planning and Natural Resource Management	3
RREN 412	Ecosystem Impact Management	3
RREN 450	Renewable Resource Internship Orientation	1
RREN 470	Renewable Resource Internship	15
	General Education Elective*	2
	Elective (or GER Elective (as advised))*	2
<b>Total Credits</b>		<b>60</b>

\* five of SUNY's general education requirement content areas must be met at the associate level.

## RESORT AND 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, sports and entertainment complexes, theme parks, commercial recreation establishments, casinos and cruise lines, world professional associations and travel-related companies.

### Graduation Requirements

- Total for BBA, 120 credits minimum
- All GNED courses can only be included as general electives
- 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 General Education Requirements - 7 of 10 towers 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 Morrisville State College, in addition to the internship.

**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

### Required Core Courses

TOUR 106	Introduction to the Hospitality Industry	3
CORE	NUTR 108, CAS 102, or TOUR 101	3
CORE	FSAD 100, FSAD 101, or CAS 105	3
TOUR 153	Hotel Operations	3
CORE	TOUR 250 or FSAD 255	3-4
CORE	FSAD 258 or TOUR 252 & cas 280, or TOUR 252 & TOUR 253 & 255	6-7
CORE	TOUR 252, 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
RRMT, BSAD, or ENTR	elective (300-400 level)	3
RRMT, BSAD, or ENTR	elective (300-400 level)	3
RRMT 470	Graduate Work Experience Orientation Seminar	1
RRMT 480	Resort and Recreation Service Graduate Work Experience	12

### Required Business Courses

ACCT 100 or ACCT 101	Accounting Information and Management Decisions	3
BSAD 107 or BSAD 108	Business Law	3
BSAD 221	Business Statistics	3
FSAD 153, BSAD 116 or CAS 104	Management	3
CAS 240, BSAD 112 or FSAD 205	Marketing	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
Elective	(300-400 level)	3
Elective	(300-400 level)	3

### Required SUNY General Education courses

#### 30 credits in 7 categories including the specific courses below

MATH	Mathematics (minimum 3 math 102 or higher)	3
Natural Sciences		4
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
ECON 100	Intro to Macroeconomics	3
HIST 101, 102, or 103	American History	3
Foreign Language		3
Elective	(300-400) level	3
PSYC 101	Introduction to Psychology	3

## SCIENCE, TECHNOLOGY, AND SOCIETY B.S. – CODE #2014

**Program Description:** One part of the mission of Morrisville State College 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.

#### Required Courses (18 credits)

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

#### Major Electives (15 Credits required)

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

#### Other Required Courses

PHIL 201	Introduction to Philosophy	3
	Upper Division Liberal Arts as Advised	3

## 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:

Lower Division		Credits
CITA 110	Computer Applications I	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:

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 Impact Management	3

### General Education Requirements

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

## 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

<b>Required Business/Technology Courses</b>		<b>Credits</b>
BSAD 116	Business Organization and Management	3
BSAD 221	Business Statistics	3
BSAD 300	Management Communications	3
BSAD 310	Human Resource Management	3
BSAD 325	Marketing Management	3
BSAD 408	Responsible Business Ownership	3
	Business/Technology Core Elective	3
TECH 395 or ENTR 474 or CITA 395	Orientation to Internship	1
TECH 480	Internship	15
		<b>46</b>

#### Required Accounting And Computer Courses

ACCT 100	Accounting Information & Mgt	3
	-or-	
ACCT 101	Principles of Accounting I	3
CITA 101	Principles of Computer Applications	3
		<b>6</b>

#### General Education Requirements

##### (7 out of 10 categories)

ECON 140 or 100	Intro to Microeconomics (preferred) or Macro	3
	Basic Communication	3
	Humanities	3
	The Arts	3
	Foreign Language	3
	Mathematics (MATH 102)	3
	Natural Sciences	3/4
	American History	3
	Western Civilization	3
	Other World Civilization	3

#### Diesel Technology Option (Select 12 Credits)

AUTO 360	Automotive Shop Management And Supervision	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 the Small Business	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 Tactics for the Small Business	3
COMP 310	Advanced Technical Communications	3
BSAD 411	Leadership in Organizations	3

#### Renewable Energy Option (Select 12 Credits)

RENG 305	Renewable Energy Systems	3
RENG 306	Alternative Fuel Vehicles	3
RENG 310	Biomass Energy Resources	3
RENG 315	Biomass Energy Resources II	3
RENG 320	Wind and Hydro Energy Systems	3
RENG 330	Solar and Geothermal Energy 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

#### Marketing Option

Required Prerequisites:		
BSAD 325	Analytic Market	3
PSYCH 304	Industrial/Organizational Psychology	3
<b>(Select 12 Credits)</b>		
BSAD 327	Advertising Management	3
BSAD 329	Consumer Behavior	3
BSAD 419	Global Marketing	3
ENTR 327	Guerrilla Marketing	3
PSYCH 386	Social Psychology	3

**Sport Management (Select 12 Credits)**

BSAD 343	Sport Management	3
BSAD 353	Sport Marketing	3
BSAD 418	Sport Law	3
BSAD 443	Sport Strategy	3

**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 semesters 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 freelancers. 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

**Course Requirements**

Major Courses		44 credits
JOUR 126	Broadcast Writing & Editing	3
JOUR 187, 188	Production Lab in WCVM Media I & II	2
JOUR 280	Broadcast Management, News and Production	3
JOUR 287, 288	Production Lab in WCVM Media III & IV	2
JOUR 313	Broadcast Scriptwriting	3
JOUR 326	Videojournalism I – Producing and Editing	3
JOUR 327	Videojournalism II – Content Producing 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, 388	Production Lab in WCVM Media V & VI	4
JOUR 426	Videojournalism IV – Remote Broadcast Production	3

JOUR 427	Video Portfolio	3
JOUR 428	Internship	12

**Business Courses****11 credits**

BSAD 108	Business Law	3
BSAD 116	Business and Organizational Management	3
BSAD 320	Entrepreneurship	3
CITA	as advised	2

**Required Elective Courses****9 credits**

COMM 121	Introduction to Speech	3
HUMN 210	The Film Experience	3
POLI 101	American National Government	3

**General Education Courses****30 credits**

ART 110	Intro to Visual Arts	3
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Foreign Language	3
GEOG 101	Intro to World Reg. Geog.	3
HIST 101, 102 or 103	American History	3
HIST 161 or 162	Western World Civilization	3
MATH 102	Intermediate Algebra with Trigonometry	3
PSYC 101	Psychology	3
	Science (as advised)	3

**Liberal Arts Elective Courses****27 credits**

As advised (At least 21 credits must be at the 300-level or above.) 27 cr.

**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 62 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

#### Required Accounting Courses

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

#### Required Business And CITA Courses

BSAD 100	Business in the 21st Century	3
BSAD 102	Business Mathematics	3
BSAD 104	Organizational Behavior	3
	-or-	
BSAD 116	Business Organization & Mgmt.	3
BSAD 108	Business Law	3
BSAD	Business Elective	3
BSAD 140	Business Communications	3
BSAD 221	Business Statistics	3
BSAD 295	Special Topics in Business	3
CITA 101	Principles of Computer Applications	3

#### Required General Education Courses (minimum of 20 credit hours, recommend 7 of 10 SUNY General Education)

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Natural Science	4
	Social Science	3
	American History, West., or World Civ.	3
	The Arts, Foreign Language, Am. Hist., West., or World Civ.	3
	Electives	14

#### Available Accounting Electives

ACCT 212	Federal Income Tax Accounting	3
ACCT 103	Computerized Accounting	3

\*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 Morrisville State College 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

#### Required Accounting Courses

ACCT 101	Principles of Accounting I**	3
ACCT 102	Principles of Accounting II	3
ACCT 105	Managerial Accounting	3
ACCT	Accounting Elective	3

#### Required Business and CITA Courses

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	Special Topics in Business	3
CITA 101	Principles of Computer Applications	3

#### General Education Requirements (7 out of 10 categories)

(minimum 30 credits)

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Natural Sciences	4
	Math or Science	8
ECON 100	Intro to Macroeconomics	3
ECON 140	Intro to Microeconomics	3
	Social Sciences	3
	Am. Hist., Western, or World Civ.	3

#### Available Accounting Electives

ACCT 201	Intermediate Accounting	3
ACCT 212	Federal Income Tax Accounting	3
ACCT 103	Computerized Accounting	3

## 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 64 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.

## Marketing Option

### 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

### Required Business Classes

OFFT 110	Introduction to Spreadsheet Software	1
<i>AND</i> 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
BSAD 206	Promotion Management	3
BSAD 209	Salesmanship	3

ACCT 100	Accounting Information and Mgt Decisions	3
	-or-	
ACCT 101	Accounting	3

### Other Requirements

JOUR 272	Public Relation and Publicity Management	3
	Business or Agriculture Elective	12*
	*see suggested electives	

**A minimum of 20 credit hours must be taken in the areas of humanities, social sciences, and math and/or science.** Recommend meeting 7 of the 10 SUNY General Education categories.

COMP 101, COMP 102 or COMM 111  
 Social Science (as advised)  
 History (As Advised)  
 Social Science (As advised)  
 Math/Science (as advised)

## TECHNOLOGY OPTION

### Curriculum Requirements for the Technology Option

AGBS 100	Agricultural Economics	3
	-or-	
AGBS 225	Environmental Economics	3
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

### Required Business Classes

OFFT 110	Introduction to Spreadsheet Software	1
<i>AND</i> 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
ACCT 100	Accounting Information and Management Decisions	3
	-or-	
ACCT 101	Accounting	3
	Electives Business or Agriculture	24
	*see suggested electives	

**A minimum of 20 credit hours must be taken in the areas of humanities, social sciences, and math and/or science.** Recommend meeting 7 of the 10 SUNY General Education categories.

English COMP 101, COMP 102, or COMM 111

Social Science (as advised)

History (as advised)

Social Science (as advised)

Math/Science (as advised)

\* Demonstrated proficiency through MAGN 101 Elementary Algebra is required for this program.

\*\*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.

## 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 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

### Required Business Classes

OFFT 110	Introduction to Spreadsheet Software	1
<i>AND</i> 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
ACCT 100	Accounting Information and Management Decisions	3
	-or-	
ACCT 101	Accounting	3
	Electives Business or Agriculture	20
	*see suggested electives	

**A minimum of 20 credit hours must be taken in the areas of humanities, social sciences, and math and/or science.**

**COURSE**

English (COMP 101 and COMP 102)	6
Social Science (as advised)	6
History as advised	
Social Science as advised	
Math 102	3
Science	8
Biology (as advised)	3-4

CHEM 121

4

**Math proficiency:** Demonstrated proficiency through MATH 102 - Intermediate Algebra with Trigonometry is required for completion of this transfer concentration.

**English proficiency:** Demonstrated proficiency through COMP 102 Writing About Literature is required for completion of this transfer concentration.

**Suggested Electives****Fall Semester****Animal Science - Dairy**

DANS 100	Dairy Nutrition	3
DANS 140	Dairy Cattle Judging	3
DANS 160	Introduction to Dairy Science	1
DANS 210	Dairy Health	3
DANS 220	Dairy Herd Management	3

**Equine Science and Management**

ESCI 315	Equine Business Management	3
ESCI 130	Equine and Stable Management	3
ESCI 210	Equine Nutrition	3
ESCI 235	Fitting and Marketing of the Equine	1
ESTB 100	Care and Training of the Racehorse I	5

**Agricultural Science (Agronomy)**

AGRO 110	Soil Science	3
AGRO 210	Field Crops	3
ENSC 102	Botany: Form and Function of Seed Plants	3
HORT 101	Plant Materials	3
HORT 201	Plant Propagation	3
AGRO 310	Pasture Management and Forages Production	3

**Agricultural Mechanics**

AGEN 100	Tractor Care and Maintenance	3
AGEN 105	Principles of Farm Machinery	2
AGEN 110	Small Power Equipment	2
AGEN 120	Water Supply and Sanitation	2
AUTO 260	Automotive Air Conditioning-mini	1

**Horticulture**

ENSC 102	Botany: Form and Function	3
ENSC 106	Pesticide Use and Handling	2
HORT 112	Introduction to Horticulture Science	3
HORT 201	Plant Propagation	3

**Spring Semester****Animal Science - Dairy**

DANS 110	Dairy Breeding	3
DANS 120	Anatomy and Physiology of the Dairy Cow	3
DANS 200	Nutritional Management of Dairy Cattle	2
DANS 225	Dairy Production and Management	3
DANS 235	Dairy Production Seminar	1
DANS 250	Dairy Perspectives	1
DANS 255	Dairy Management Fellowship	2

**Equine Science and Management**

ESCI 110	Anatomy and Physiology	3
ESCI 120	Equine Breeding	3
ESCI 140	Equine Judging	2
ESCI 170	Draft and Driving Horse Management	2
ESCI 312	Equine Health and Lameness	3
ESCI 225	Artificial Insemination	1
ESTB 101	Care and Training of the Racehorse II	5

**Agricultural Science (Agronomy)**

AGRO 215	Soil Fertility and Fertilizers	3
ENSC 104	Plant Pathology	3

ENSC 106	Pesticide Use and Handling	2
ENSC 107	Integrated Pest Management	1

**Agricultural Mechanics**

AGEN 145	Agricultural Building Systems	3
AGEN 135	Construction Surveying	3
AGEN 140	Welding	3
AGEN 125	Residential Electrification	3

**Horticulture**

ENSC 107	Integrated Pest Management	1
HORT 108	Herbaceous Plant Materials	2

**Technical courses in other areas:**

Business and/or Accounting courses, Computer courses, Science courses  
Mathematics courses

## 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.

**Graduation Requirements:**

- Students in the Agricultural Engineering program must complete 64 credit hours of course work including all requirements listed below with a minimum GPA of 2.0.
- 20 semester hours of Liberal Arts and Sciences

**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.

**Required Courses**

			<b>Credits</b>
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
DTEC	250	Mechanical Injection Systems	3
AGEN	270	Tractor Overhaul and Repair	5
		-or-	
AGEN	300	Internship in Agricultural Engineering	4
AGBS	100	Agricultural Economics	3
		-or-	
AGBS	210	Farm Management	3
		-or-	
ACCT	100	Accounting Information and Management Decisions	3
DTEC	150	Diesel Systems	3

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**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.

**Graduation Requirements:** Student must complete 61 credit hours our course work including all requirements listed below with a minimum GPA of 2.0. Demonstrated proficiency through SKLS 088 and MAGN 101 is required.

**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.

**Required Courses**

			<b>Credits</b>
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

**Major Electives**

Students must select a minimum of 3 credits from the following list of courses:

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

**Option Field of Study Electives**

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 100	Introduction to Horticulture	3
HORT 101	Plant Materials	3
HORT 105	Landscape Planning II	3
HORT 109	Landscape and Turf Management	3
HORT 210	Horticulture Practices III	1
HORT 103	Landscape and Design I	3
HORT 107	Nursery and Garden Management	3

## 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:** Primarily a transfer program in animal science, agronomy, and general agricultural science. Broad-based training in agriculture is also provided by a non-transfer option.

**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. Refer to the description of the School of Agriculture and Natural Resources for a description of the transfer agreement with Cornell University. General education requirements mandated by the State University of New York Board of Trustees may be applied to certain transfer students.

Colleges to which Morrisville State College agricultural students transfer include:

- College of Agriculture and Life Sciences at Cornell University
- University of Georgia
- Ohio State University
- University of Maine
- Rutgers University
- College of Environmental Science and Forestry at Syracuse

- Kansas State University
- Oklahoma State University
- Pennsylvania State University
- Utah State University
- Colorado State University
- Virginia Polytechnic Institute and State University
- University of Vermont
- Cornell University

**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 64 – 66 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 in Liberal Arts and Science, recommend 7 of 10 SUNY General Education categories.

### 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.

### 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 growing crops and plan to make crop farming or market gardening their career. The curriculum also 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.

The curriculum allows elective choice for some additional studies in the animal sciences, agricultural engineering, and turf and landscape practices. Students who wish to transfer into a bachelor degree program should take eight credit hours of chemistry, six credit hours of botany and at least three credit hours of mathematics.

### 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.

### 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 detail schedule please contact your advisor.

**GENERAL TRANSFER OPTION**

<b>Curriculum Requirements</b>		<b>Credits</b>
AGSC 135	Computer Applications in Agricultural Research I	1
BIOL	Biology (as advised)	4
AGSC 132	Introduction to Computer Applications in Precision Farming	2
ENSC 102	Botany: Form and Function of Seed Plants	3
AGRO	Agronomy (as advised)	3
AGSC 137	Analysis and Interpretation of Agricultural Data	2
CHEM 121	General Chemistry I	4
	-or-	
PHYS 127	General Physics I	4
CHEM 122	General Chemistry II	4
	-or-	
PHYS 128	General Physics II	4
	Electives	21

**Local Distribution Requirements:**

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Social Science (as advised)	5-7
	Math and/or Science (as advised)	5-7

**ANIMAL SCIENCE OPTION**

<b>Curriculum Requirements</b>		<b>Credits</b>
BIOL	Biology (as advised)	8
AGSC 135	Computer Applications in Agricultural Research I	1
DANS 100	Dairy Nutrition	3
	-or-	
ESCI 210	Equine Nutrition	3
AGSC 132	Introduction to Computer Applications in Precision Farming	2
DANS 110	Dairy Breeding	3
	-or-	
	Elective	3
AGRO	Agronomy (as advised)	3
AGSC 137	Analysis and Interpretation of Agricultural Data	2
CHEM 121	General Chemistry I	3
CHEM 121L	Lab for CHEM 121	1
BIOL 285	Microbiology	4
CHEM 122	General Chemistry II	3
CHEM 122L	Lab for CHEM 122	1
	Electives	14

**Local Distribution Requirements**

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	-or-	
COMP 111	Introduction to Speech	3
	Social Science/History (as advised)	5-7
	Math and/or Science (as advised)	5-7

**AGRONOMY OPTION**

<b>Curriculum Requirements</b>		<b>Credits</b>
AGBS 100	Agricultural Economics	3
AGEN 105	Principles of Farm Machinery	2
AGRO 110	Soil Science	3
AGSC 132	Introduction to Computer Applications in Precision Farming	2
ENSC 107	Integrated Pest Management	1
	Elective	4
	-or-	
CHEM	Chemistry (as advised)	4
ENSC 102	Botany: Form and Function of Seed Plants	3
ENSC 106	Pesticide Use and Handling	2
AGRO 215	Soil Fertility and Fertilizer	3
AGSC 137	Analysis and Interpretation of Agricultural Data	2
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
	Elective	3
	Internship or elective	4
	Electives	7

**Local Distribution Requirements**

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	-or-	
COMP 111	Introduction to Speech	3
	Social Science/History (as advised)	5-7
	Math and/or Science (as advised)	5-7

**AGRICULTURE TECHNOLOGY OPTION**

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**

		<b>Credits</b>
AGSC 132	Introduction to Computer Applications in Precision Farming	2
AGSC 135	Computer Applications in Agricultural Research I	1
AGRO 110	Soil Science	3
AGSC 137	Analysis and Interpretation of Agricultural Data	2
	Agricultural and Natural Resources Electives	25
	Electives	16

**Local Distribution Requirements**

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	-or-	
COMM 111	Introduction to Speech	3
	Social Science (as advised)	5-7
	Math and/or Science (as advised)	5-7

**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 64 credit hours, minimum 2.0 cumulative GPA, minimum 20 credit hours in Liberal Arts and Sciences. 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.

#### 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 (Barn Duty)	1
DANS 151	Dairy Techniques (SHARRPS)	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
AGBS 100	Agricultural Economics	3
AGBS 200	Marketing of Agricultural Products	3
AGBS 240	Farm Management and Finance	4
AGRO 110	Soil Science	3
AGRO 210	Field Crops	3
AGSC 132	Introduction to Computer Applications in Precision Farming I	2
	-or-	
OFFT 110	Introduction to Spreadsheet Software	1
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	(as advised)	3
	Agricultural Science or Dairy Science Electives	2
	Social Sciences (as advised)	6
	Math (as advised)	3
<b>Total</b>		<b>64</b>

## AQUACULTURE AND 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 64 credit hours of course work and all of the requirements listed below.

**Math Proficiency:** Demonstrated proficiency through MATH 102, Intermediate Algebra with Trigonometry

**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 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.

#### Required Environmental Science 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
AGEN 120	Water Supply & Sanitation	3
	-or-	
ENVT 345	Surface and Groundwater Management	3

#### Required Computer Courses

OFFT 110	Introduction to Spreadsheet Software	1
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#### General Education Requirements

BIOL 285	General Microbiology	4
BSAD	Business Elective (as advised)	3
CHEM	Chemistry (as advised)	4
GNEB 104	Basic Research Methods	1
COMP	(as advised)	6
SOCI/PSYC	Social Science (as advised)	3
ECON 100	Introduction to Macroeconomics	3
	Elective (as advised)	3

#### SUGGESTED ELECTIVES

NATR 100	Intro to Forestry and Natural Resources	3
NATR 110	Natural Resources Measurement	3
NATR 130	North American Waterfowl	1
NATR 140	Geology	3
NATR 142	Plane Surveying	3
NATR 210	Dendrology	3

NATR 213	Basics of Geospatial Technology	1
NATR 216	Basics of Geospatial Analysis	1
NATR 232	Wildlife Ecology and Management	3
ENSC 106	Pesticide Use and Handling	2
ENSC 107	Integrated Pest Management	1
ENVT 100	Introduction to Environmental Technology	3
AGBS 230	Agricultural Business Management	2
AGRO 110	Soil Science	3
BIOL 102	Botany-Form and Function of Seed Plants	3
BIOL 120	General Biology I	4
BIOL 121	General Biology II	4
BSAD 116	Business Organization and Management	3
BSAD 112	Marketing	3
BSAD 215	Human Resource Management	3
MATH	Mathematics (as advised)	3
MATH 141	Statistics	3

## ARCHITECTURAL STUDIES AND 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 prove useful in an architectural firm at the entry-level.

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 built environments, 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 architectural firms and architectural related industries as an entry-level employee.

**Transfer Options:** This rigorous program has resulted in successful transfer opportunities for graduates. Morrisville graduates have excellent reputations at other academic institutions and universities including the University at Buffalo, Rensselaer Polytechnic Institute, New York Institute of Technology, Cornell University, Syracuse University, Pratt Institute, Norwich University, Wentworth Institute of Technology, Boston Architectural College, Arizona State University, the Ohio State University, University of Michigan, Alfred State College, the Southern California Institute of Architecture, Roger Williams University, Clemson University and others.

### 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 a 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.

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
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
<b>ADDITIONAL REQUIRED COURSES</b>	
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*	Analytical Geometry and Calculus I 3
REQUIRED COURSE CREDITS	55
SUNY GENERAL EDUCATION CREDITS <sup>1</sup>	6
ELECTIVE COURSE CREDITS NEEDED	
TOTAL PROGRAM CREDITS	61

\*Courses on the SUNY General Education list

<sup>1</sup>MATH, BC, HUMN, ARTS and NAT SCI categories are fulfilled in the 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

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
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 <sup>6</sup>	
<b>ADDITIONAL REQUIRED COURSES</b>	
PHYS 107 <sup>^</sup> Introductory Physics I	4
COMP 101 <sup>^</sup> Composition and Research	3
PSYC 101 <sup>^</sup> Introduction to Psychology	3
MATH102 <sup>^</sup> Intermediate Algebra with Trigonometry	3
<b>REQUIRED COURSE CREDITS</b>	<b>53</b>

LIBERAL ART AND SCIENCE ELECTIVE CREDITS <sup>^2</sup>	7
ELECTIVE COURSE CREDITS NEEDED	7
<b>TOTAL PROGRAM CREDITS</b>	<b>60</b>

<sup>^</sup>Courses on the Liberal Arts and Science list

<sup>2</sup>Seven 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

## 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.

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
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	
-or-	
AUTO 259 Auto Body Non-structural Repair and Refinishing	5
AUTO 261 Automotive AC and Heating	3
<b>ADDITIONAL REQUIRED COURSES</b>	
PHYS 107 <sup>^</sup> Introductory Physics I	4
COMP 101 <sup>^</sup> Composition and Research	3
PSYC 101 <sup>^</sup> Introduction to Psychology	3
MATH102 <sup>^</sup> Intermediate Algebra with Trigonometry	3
<b>REQUIRED COURSE CREDITS</b>	<b>57</b>
<b>LIBERAL ART AND SCIENCE ELECTIVE CREDITS<sup>^2</sup></b>	<b>7</b>
<b>ELECTIVE COURSE CREDITS NEEDED</b>	<b>7</b>
<b>TOTAL PROGRAM CREDITS</b>	<b>64</b>

<sup>^</sup>Courses on the Liberal Arts and Science list

<sup>2</sup>Seven additional LAS 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 Morrisville State College, 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.

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
ASET 101 Introduction to Automotive Service	2
ASET 102 Braking Systems	3
ASET 103 Basic Electrical Systems	3
ASET 121 Engine Repair	3
ASET 122 Electrical and Electronic Systems	4
ASET 123 Cooperative Training I	1
ASET 200 Cooperative Training II	4
ASET 201 Steering and Suspension Systems	3
ASET 202 Manual Transmission and Drive Trains	3
ASET 203 Climate Control	2
ASET 222 Engine Performance	4
ASET 223 Automotive Transmissions	4
ASET 225 Cooperative Training III	1
AUTO 102 Metals	3
AUTO 155 Intermediate Automotive Electricity & Electronics	3
-or-	
ASET 160 Applied Electricity and Electronics	3
<b>ADDITIONAL REQUIRED COURSES</b>	
PHYS 107 <sup>^</sup> Introductory Physics I	4
COMP 101 <sup>^</sup> Composition and Research	3

PSYC 101 <sup>^</sup>	Introduction to Psychology	3
MATH102 <sup>^</sup>	Intermediate Algebra with Trigonometry	3
REQUIRED COURSE CREDITS		56
LIBERAL ART AND SCIENCE ELECTIVE CREDITS <sup>^2</sup>		7
ELECTIVE COURSE CREDITS NEEDED		7
TOTAL PROGRAM CREDITS		63
DEMONSTRATED PROFICIENCIES THROUGH MATH 102		

<sup>^</sup>Courses on the Liberal Arts and Science list

<sup>2</sup>Seven 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:** 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.

**Requirements for Graduation:** Graduates must have 64 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.

#### Required Courses:

Core 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 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
BSAD 206	Promotion Management	3
BSAD 221	Business Statistics	3
BSAD 295	Special Topics in Business	3
CITA 101	Principles of Computer Applications	3

#### Required SUNY General Education (20 credit hours minimum)

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
	Natural Science (as advised)	4
	American History, West., or World Civ.	6
	The Arts, Foreign Language, Electives	3

## 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.

**Requirements for Graduation:** Graduates must have 64 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

#### Required Courses:

Core 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	Special Topics in Business	3
CITA 101	Principles of Computer Applications	3

### Required SUNY General Education (30 credits in 7 of 10 categories)

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
MATH 103*	College Algebra with Trigonometry	3
ECON 100	Introduction to Macroeconomics	3
ECON 140	Introduction to Microeconomics	3
	Electives	15

## COMPUTER-AIDED DESIGN TECHNOLOGY A.A.S. — CODE #0593

*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:

- Identify a technical problem and provide alternatives for a solution by integrating knowledge from various resources.
- Manipulate analytical and graphical equations for the determination of solutions to technical problems.
- Communicate effectively utilizing graphical tools, techniques and technical documentations.
- Demonstrate effective project management skills.
- Perform individual responsibilities to complete group objective(s).
- Layout and detail a technical drawing to meet current industry accepted standards.
- Analyze given requirements and then specify material and manufacturing processes.
- Demonstrate proficiency in operating machine tools and industrial equipment.

### 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.

COURSE		CREDIT
REQUIRED CORE COURSES		
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 101	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

### ADDITIONAL REQUIRED COURSES

PHYS 107^	Introductory Physics I	4
COMP 101^	Composition and Research	3
MATH 103^	College Algebra with Trigonometry	3
COMP 110^	Technical Communications	3

REQUIRED COURSE CREDITS 55

GENERAL ELECTIVE CREDITS<sup>3</sup> 5

ELECTIVE COURSE CREDITS NEEDED 5

TOTAL PROGRAM CREDITS 60

^Courses on the Liberal Arts and Science list

<sup>3</sup>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. This program is also offered at the Norwich Campus.*

**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. Students have full Internet access through popular Web browsers.

**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:

- Construct a database driven application.
- Apply formal design methodologies to design information systems.
- Explain theories regarding the application of information technologies to the solution of business problems.

- Demonstrate development of information technology solutions using computers on a network

## 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. This program is also offered at the Norwich Campus.*

**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:

- Construct a database driven application.
- Apply formal design methodologies to design information systems
- Explain theories regarding the application of information technologies to the solution of business problems.
- Demonstrate development of information technology solutions using computers on a network.

### 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, 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 and GPA of 2.00 or higher for CITA required courses

COURSE		CREDIT
<b>CORE REQUIRED</b>		
CITA 110	Computer Applications I	3
CITA 120	Computer Concepts and OS	3
CITA 140	Introduction to Programming	3
CITA 150	Data Management Techniques	3
CITA	As Advised	3
CITA 210	Visual Programming and Development Tools	3
CITA 220	Systems Analysis	3
<b>ADDITIONAL REQUIRED</b>		
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*	Analytic Geometry and Calculus I	3
MATH*	As Advised	3

TOTAL REQUIRED 45

SUNY GENERAL EDUCATION CREDITS\*<sup>1</sup> 18

ELECTIVE COURSE CREDITS NEEDED 18

TOTAL PROGRAM CREDITS 63

\*Courses on the SUNY General Education list

<sup>1</sup> 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

## COMPUTER SCIENCE A.S. – CODE #0532

*Computer Science is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses.*

**Program Description:** Computer science is a field critical to our society. Computers are used for medical treatment, transportation, space exploration, education, entertainment, finance, as well as for the management and exchange of data and information. Areas of specialization include graphics, artificial intelligence, systems software, languages, networks, user interfaces, and many others.

This program follows guidelines published by the Association for Computing Machinery, the world's premier organization of computing professionals and academics. While the curriculum primarily prepares graduates for transfer to bachelor degree programs, graduates are also ready for the workplace in support roles or as entry-level programmers. A varied selection of computer science courses is combined with a strong emphasis on mathematics, science, and liberal arts courses to give graduates a solid, well-rounded preparation for transfer to a bachelor degree program.

Languages taught include Python, Java, C, C++, and assembly language. Operating systems used include Windows, DOS, and Unix.

*As part of ThinkPad University, all computer science majors must own or lease a laptop computer. This enables each student to access computing tools and technology anytime, anyplace, and also allows students to incorporate computers into every aspect of their education. Facilities throughout the campus provide ThinkPad students with access to file servers, printers, and the Internet.*

**Career Opportunities:** Graduates are ready for the workplace in support roles or as entry-level programmers.

**Transfer Options:** The Computer Science program is primarily a transfer program in a computer science field. Graduates typically transfer to schools such as Rochester Institute of Technology and SUNY Polytechnic Institute.

**Program Learning Outcomes:** Upon successful completion of this program, students will be able to:

- Analyze a problem and create an algorithmic solution.
- Specify, design, implement, and evaluate a computer program or system to satisfy required specifications.
- Read and interpret technical information, and communicate effectively with a variety of audiences.
- Function effectively as a member of a team to achieve a goal.
- Research and assess new ideas and information in the field of Computer Science.
- Analyze the global impact of computing on individuals, organizations, and society.

**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

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
COSC 111 Introduction to Computer Science	3
COSC 111L Laboratory for COSC 111	1
COSC 112 Elementary Data Structures	3
COSC 201 Programming in C	3
COSC 221 Assembly Language Programming	3
COSC 231 Advanced Programming Techniques	3
<b>ADDITIONAL REQUIRED COURSES</b>	
MATH 145* Discrete Mathematics	3
COMP 101* Composition and Research	3
COMP 102* Writing About Literature	3
MATH 151* Analytical Geometry and Calculus I	3
MATH 152* Analytical Geometry and Calculus II	3
LAB SCIP/C/B* Physics/Chemistry/Biology	4
LAB SCIP/C/B* Physics/Chemistry/Biology	4
<b>REQUIRED COURSE CREDITS</b>	<b>39</b>
<b>SUNY GENERAL EDUCATION CREDITS<sup>1</sup></b>	<b>9</b>
<b>GENERAL ELECTIVE CREDITS<sup>3</sup></b>	<b>12</b>
<b>ELECTIVE COURSE CREDITS NEEDED</b>	<b>21</b>
<b>TOTAL PROGRAM CREDITS</b>	<b>60</b>

\*Courses on the SUNY General Education list

P/C/B = Physics, Chemistry or Biology courses (Physics highly recommended)

<sup>1</sup> MATH, BC, HUMN and NAT SCI categories are fulfilled in the required courses

Three additional SUNY General Education courses are needed to fulfill the 7 categories requirement

<sup>3</sup>Twelve additional credits are needed to fulfill the 60 credit requirement for an AS degree

**RECOMMENDED ELECTIVES TO INCLUDE**

COSC 211	3
ELEC 290	3
MATH 149	3

## COMPUTER SYSTEMS TECHNOLOGY A.A.S. – CODE #0405

*Computer Systems Technology is a ThinkPad University curriculum in which the use of laptop computers is integrated into courses. This program is also offered at the Norwich Campus.*

Program Description: The Computer Systems Technology curriculum has been designed for students who have initial plans to enter the job market as support personnel to computer users rather than computer programmers. As the computer continues to integrate itself into all facets of the business environment, new opportunities are developing for those individuals with strong backgrounds in both computing and business management skills. This curriculum will prepare the student for these new careers.

The student will learn computer and information systems concepts through an understanding of hardware and software and their applications to business. At the same time, the student will be learning the necessary business marketing and management skills for today's business world. The merging of these two disciplines will produce tomorrow's business leaders.

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 programming environment. These systems support the latest software packages for spreadsheets, graphics, database, communications, and multimedia development.

**Career Opportunities:** Computer operator, computer sales, and office systems management and computer and network support personnel

**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:

- Construct a database driven application.
- Apply formal design methodologies to design information systems.
- Explain theories regarding the application of information technologies to the solution of business problems.
- Demonstrate development of information technology solutions using computers on a network.

**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, 60 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

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
CITA 110 Computer Applications I	3
CITA 120 Computer Concepts and OS	3
CITA 140 Introduction to Programming	3
CITA 220 Systems Analysis	3
CITA 280 Tools and Techniques	3
CITA As Advised	3
<b>ADDITIONAL REQUIRED COURSES</b>	
ACCT 101 Principles of Accounting I	3
ACCT 102 Principles of Accounting II	3
BSAD 112 Marketing	3
BSAD 116 Business Organization and Management	3
BSAD 140 Business Communications	3
BSAD 209, 212, 215 or 221	3
COMP 101 <sup>^</sup> Composition and Research	3
COMP 102 <sup>^</sup> Writing about Literature	3
COMM 111 <sup>^</sup> Introduction to Speech	3
ECON 100 <sup>^</sup> Introduction to Macroeconomics	3
MATH 103 <sup>^</sup> College Algebra with Trigonometry	3

<b>REQUIRED COURSE CREDITS</b>	<b>51</b>
<b>LIBERAL ART AND SCIENCE ELECTIVE CREDITS<sup>^2</sup></b>	<b>5</b>
<b>GENERAL ELECTIVE CREDITS<sup>3</sup></b>	<b>4</b>
<b>ELECTIVE COURSE CREDITS NEEDED</b>	<b>9</b>
<b>TOTAL PROGRAM CREDITS</b>	<b>60</b>

<sup>^</sup>Courses on the Liberal Arts and Science list

<sup>2</sup>Five additional LAS credits are needed to fulfill the 20 credit Liberal Arts and Science requirement

<sup>3</sup>Four additional credits are needed to fulfill the 60 credit requirement for an AAS degree

## 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:

- Exercise professionalism in executing entry level duties in law enforcement and other criminal justice careers.
- Effectively document investigations, incidents, and other information consistent with nationally recognized legal criterion.
- Establishment of a lifestyle of good health, nutrition, physical training and stress management while pursuing a physically and emotionally demanding career choice.
- Critique the varying goals and priorities of the many disciplines in the criminal justice system.
- Identify, collect, and preserve evidence according to standard police practice.
- Evaluate the nature of crime and deviance among adults and juveniles.
- Execute penal and criminal procedure laws professionally and ethically.
- Describe the complexities of managing and supervising the incarcerated.

### Required Core 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

### Other Required Courses

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	3
OFFT	100	Introduction to Word Processing	1
OFFT	106	Personal Keyboarding	1
POLI	113	American Judicial System	3
WELL	100	Stress and Wellness	3
HIST		U.S. History, World History, or European History	3
		Foreign Language (as advised)	6
		MATH and/or Science (as advised)	6
		GNED 100 Freshman Experience 2	7
		Open Elective (as advised)	15

## 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 64 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 MSC must be met.

### STUDENT LEARNING OUTCOMES:

Upon completion of this program graduates will be able to:

- a. Demonstrate skills and knowledge required of culinarians and apply them in a commercial kitchen operation.
- b. Demonstrate industry-standard knowledge and skills regarding sanitation, food safety, nutrition and supervision in the hospitality industry.

- c. Anticipate and manage labor and food costs in order to operate an economically sustainable establishment.
- d. Demonstrate the ability to work in a professional bakery.
- e. Demonstrate the ability to work in a professional kitchen as a prep, line and pantry cook.
- f. 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.
- g. Explain basic concepts involved in marketing and how they can be applied to food service operations to facilitate financial objectives.
- h. Identify and illustrate the basic elements of equipment design and layout in food service facilities.
- i. Possess an extensive business portfolio that displays an up to date resume, cover letter, skill set, work philosophy, career goals and extensive work samples.
- j. 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 Math and/or Science (List B) requirements for graduation.

## 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.

**Degree Requirements:** Minimum 60 credits hours with a 2.0 minimum GPA and all required courses.

### 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.

### Required Courses

	<b>Credits</b>
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	5

AUTO 260	Automotive Air Conditioning	1
OFFT 110	Introduction to Spreadsheet Software	1
ENSC 101	Agricultural Science	3
RENG 102	Renewable Energy Resources	3
AGEN 100	Tractor Care and Maintenance	3
	Electives	8
	Major Elective (a minimum of 4)	4
		<b>60</b>

### Major Electives

Students are required to take a minimum of 4 credits from the following list of courses:

DTEC 151	Seminar in Caterpillar Power Systems	2
DTEC	Internships	
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

Demonstrated proficiency through MAGN 101 Elementary Algebra with Trigonometry is required for this program. English proficiency through SKLS 088 Writing Essentials is required. Elective credits must be used to fulfill these requirements.

## 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.

**Degree Requirements:** Minimum 60 credits hours with a 2.0 minimum GPA and all required courses including 20 credits of Liberal Arts and Sciences

### 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.

### Required Courses

	<b>Credits</b>
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 250	Mechanical Injection Systems	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
AUTO 260	Automotive Air Conditioning	1
OFFT 110	Introduction to Spreadsheet Software	1

Liberal Arts and Sciences Requirements		Credits
COMP 101	Composition and Research	3
COMP 110	Technical Communications	3
MATH	Mathematics (as advised)	3
PHYS 107	Introductory Physics I	4
	As Advised	13

#### Electives

DTEC 290	Internship I (winter)	1
DTEC 300	Internship II (summer)	4
DTEC 295	Internship III (winter)	1
Demonstrated proficiency through MATH 102 - Intermediate Algebra with Trigonometry is required for this program.		

## DIETETIC TECHNICIAN - FOOD SERVICE ADMINISTRATION A.A.S. – CODE #0573

*Dietetic Technician - Food Service Administration - 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:

The Accreditation Council for Education in Nutrition and Dietetics

Academy of Nutrition and 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)

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.

#### Program Requirements:

**As math and science is important for students in the Dietetic Technician program, students must have completed mathematics through NT State Math A or equivalent and biology.**

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

#### 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:

1. 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.
2. 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.**

- Graduates will achieve over a five year period a pass rate of at least 80%

- Over a five year period, 70% or more of graduates who sought employment in dietetics will be employed within three months of program completion.
- Past graduates will rate the program as satisfactory or better when surveyed on their preparation for employment and/or further education.
- 80% of the graduate entry level skills will be rated by the employer as average or above.
- Students in good academic standing will achieve a satisfactory rating for all entry level competencies
- 90% of graduates who become registered as a DTR will maintain their registration status through their first 5- year cycle.

**GOAL II: Provide education in applied nutrition and dietetics to students which is compatible with transfer to baccalaureate programs.**

- 90% of those with a GPA > 2.75 who apply will be accepted to a baccalaureate program within one year of graduation from MSC to become a registered dietitian
- 80% of those accepted to a four-year program will complete the degree in three years
- Current formal articulation agreements with four-year institutions will be maintained for transfer of our students to these programs.
- Senior portfolios will be developed in senior seminar. These will include collections of work from their field experiences. One hundred percent of the class will be selected in a lottery to present these at the spring advisory board meetings and 90% will be rated as satisfactory by the panel.

**GOAL III: Provide assessment and counseling to students 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 in the DTP.**

- 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 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 25% of the program duration.
- 60% of all entering students will complete the DT program within three years or 150% of the length of the program.
- 90% of the seniors will express satisfaction with the nutrition courses they have completed in the DT program with respect to the support and motivation provided by the DTP faculty.

**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.

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
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

**ADDITIONAL REQUIRED COURSES**

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
MATH123^	Elementary Statistics	
	-or-	
MATH 141^	Statistics	3
PSYCH101^	Introduction to Psychology	3
SOCI 101^	Introduction to Sociology	3

REQUIRED COURSE CREDITS 64

TOTAL PROGRAM CREDITS 64

^Courses on the Liberal Arts and Science list

## 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 the federal "Race to the Top" 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.

**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 [https://www.naeyc.org/files/ecada/file/NAEYC%20Initial%20and%20Advanced%20Standards%206\\_2011-final.pdf](https://www.naeyc.org/files/ecada/file/NAEYC%20Initial%20and%20Advanced%20Standards%206_2011-final.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.

#### Required Core Courses

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

#### Other Required Courses

PSYC	241	Child Development	3
SOCI	220	Marriage and the Family	3
CITA	101	Principles of Computers and Applications	3
GNED	104	Library Research Methods	1

#### Directed Electives (Select 1 of the following):

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

#### Required SUNY General Education Courses

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

## 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 from 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

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
ENGR 100 Introduction to Engineering	3
ENGR 135 Computing and Numerical techniques	3
MATH 161* Engineering Calculus I	4
MATH 162* Engineering Calculus II	4
MATH 261* Engineering Calculus III	4
MATH 262* Differential Equations	4
PHYS 157* University Physics I (Mechanics)	4
PHYS 158* University Physics II (Electricity & Magnetism)	4
CHEM 141* Chemistry Principles I	3
CHEM 141L* Laboratory for Chemical Principles I	1
<b>DISCIPLINE SPECIFIC REQUIREMENTS</b>	
ENGR 201 Statics	3
ENGR 202 Dynamics	3
ENGR 210 Electrical Systems (Circuits I)	3
ENGR 212* Mechanics of Materials	3
<b>ADDITIONAL REQUIRED COURSES</b>	
COMP 101* Composition and Research	3
COMP 102* Writing about Literature	3
REQUIRED COURSE CREDITS	52
TRANSFER PATHWAY ELECTIVE CREDITS	6
SUNY GENERAL EDUCATION CREDITS* <sup>1</sup>	9
ELECTIVE COURSE CREDITS NEEDED	15
TOTAL PROGRAM CREDITS	67

\*courses on the SUNY GER list

<sup>1</sup> 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 267 (old PHYS 158)	3	THERMODYNAMICS

PHYS 268	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 Morrisville State College.

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 64 credit hours of instruction with a minimum 2.0 cumulative GPA. The specific required courses in the program will satisfy the general education requirements in 8 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/AGRO 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.

#### Required Environmental Science Courses

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
NATR/ENSC/AGRO	Electives (as advised)	9

#### Required Computer Courses

CITA 110 or 110	Computer Applications Elective	3
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#### General Education Requirements

BIOL 260	Principles of Zoology	4
	Chemistry/Physics Elective	8
CHEM 121	General College Chemistry I	
	-or-	
CHEM 122	General College Chemistry II	
	-or-	
PHYS 107	Introductory Physics I	
	-or-	
PHYS 108	Introductory Physics II	
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
COMM 111	Introduction to Speech	3
	General Education**	12
MATH	*Mathematics (as advised)	3

#### Other Requirements

Open Elective (as advised)	4
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\***Math Proficiency:** demonstrated Proficiency through MATH 103 – College Algebra with Trigonometry

\*\*A student must take 12 credits in 4 categories from the following list: Social Sciences, American History, Western Civilizations, the Arts and Other World Civilizations

#### NATR/ENSC/AGRO Electives

(a minimum of 9 credits)

AGRO 110	Soil Science	3
ENSC 107	Integrated Pest Management	1
NATR 142	Plane Surveying	3
NATR 150	Aquaculture	3
NATR 210	Dendrology	3
NATR 250	Aquatic Ecology	3
HORT 241	Plant Protection	3
ENSC 106	Pesticide Use & Handling	2
NATR 101	General Ecology	3
NATR 110	Natural Resources Measurements	3
NATR 211	Forest Protection	3
NATR 115	Forest Ecology	3
NATR 130	North American Waterfowl	1
NATR 140	Geology	3
NATR 215	Practices of Silviculture	3
NATR 213	Basics of Geospatial Technology	1
NATR 216	Basics of Geospatial Analysis	1
NATR 221	Invasive Species Management	3
NATR 232	Wildlife Management	3
NATR 252	Fish Ecology and Management	3
AGRO 110	Soil Science	3
NATR 160	Principles of Arboriculture	2
NATR 161	Practices of Arboriculture	1

#### 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. 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 AND 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 Morrisville State College Equine Rehabilitation Center (MSCERC) 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.

Morrisville State College 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 these general education requirements.

Bachelor of Technology students must take one course from each of the following groups:

COMP 101 or COMP 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

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.

#### Career Option Requirements

	<b>Credits</b>
AGBS 100 Agricultural Economics (equine)	3
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
ERID102/104 Equitation I Intermediate or Advanced	3
ERID103/105 Equitation II Western Horsemanship Int/Adv	1
ERID111/112 Hunt Seat Equitation II Int/Adv	1
ERID 200 Western Riding	1

ERID 250	Breaking and Training	3
-or-		
ERID 240	Introduction to Training of Hunters and Jumpers	4
ERID 200	English Dressage	2
-or-		
ERID 220	Western Dressage	2
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
SUNY General Education as Advised		9

#### 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

#### Suggested Electives

ESCI 313	Laboratory in Equine Health and Lameness I	3
AGBS 200	Marketing Agricultural Products	2
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
	Special Projects	3

#### General Option Requirements

	<b>Credits</b>
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	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
SUNY General Education Courses As Advised	12
Electives - Equine Science or others (as advised)	18

Suggested Electives			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
		Special Projects	3

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 Morrisville State College Equine Rehabilitation Center (MSCERC) 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 (for harness racing majors), where students have the opportunity to compete in actual race conditions at the county fairs in New York state and amateur driving events.

**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.

**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.

**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 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

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
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
One course from each of two of the following groups		6
**HIST 161 or HIST 162		
**HIST 101 or HIST 102 or HIST 103 or HIST 225		
**PSYC 101 or SOCI 101 or ECON 101 or ECON 140 or ANTH 101		

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.

Each student in the summer program is responsible for the care and training of two or 3 harness horses which are raced at county fairs, pari-mutuel tracks, or Sire Stakes races.

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, have successfully passed the USTA driver/trainer test, and receive permission of the instructor.

The course in which the student will enroll is:

ESTB 200 Harness 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 64 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 MSC 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.

Required Hospitality Core 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		3
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

**Required Business Courses**

ACCT 100	Accounting Information & Management Decisions	3
OFFT 110	Introduction to Spreadsheet Software	1

**Required General Education Courses (20 credits)**

English (as advised)
Social Science (as advised)
Math or Sciences (as advised)
Electives (as advised)

## GAMING AND 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 Motel 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 63 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 MSC 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

**Required Hospitality Core Courses**

			Credits
FSAD 100	Global and Ethnic Foods		3
	-or-		
CAS 105	Food and Beverage Implications for the Casino Industry		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

**Required Business Courses**

ACCT 100	Accounting Information & Management Decisions	3
OFFT 100 or 110	Into to Word Processing	1

**Required General Education Courses (20 credits)**

	English (as advised)	
	Social Science (as advised)	
ECON 100	Intro to Macroeconomics	3
	Math or Sciences (as advised)	
	Electives (as advised)	

\* 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

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
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
CHEM121L* Lab for CHEM 121	1
CHEM122* General College Chemistry II	3
CHEM122L* Lab for CHEM 122	1

#### ADDITIONAL REQUIRED SCIENCE COURSES

ADVISED 6

#### ADDITIONAL REQUIRED COURSES

COMP 101* Composition and Research	3
MATH 103* College Algebra with Trigonometry	3

MATH 141* Statistics	3
PSYC 101* Introduction to Psychology	3

<b>REQUIRED COURSE CREDITS</b>	<b>42</b>
SUNY GENERAL EDUCATION CREDITS* <sup>1</sup>	9
GENERAL ELECTIVE CREDITS <sup>2</sup>	9
ELECTIVE COURSE CREDITS NEEDED	18
TOTAL PROGRAM CREDITS	60

\*Courses on the SUNY General Education list

<sup>1</sup> MATH, BC, NAT SCI and SS categories are fulfilled in the required courses

Three additional SUNY General Education courses are needed to fulfill the 7 categories requirement

<sup>2</sup>Nine additional credits are needed to fulfill the 60 credit requirement for an AS program

#### RECOMMENDED ADDITIONAL SCIENCE COURSES AND ELECTIVES 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: Floral Design, 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, greenhouse production, and floral design.

**Graduation Credit Requirements:** All AS programs require a minimum of 60 credit hours including 20 credit hours from Liberal Arts and Sciences courses (recommend meeting 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.

**Math Proficiency:** Demonstrated proficiency through MATH 102 Intermediate Algebra with Trigonometry is required the General Transfer option.

Floral Design Requirements			Credits
BIOL 102	Botany: Form and Function of Seed Plants		3
BSAD 112	Marketing		3

BSAD	116	Business Organization and Management COMP OR COMM elective*	3
ENSC	107	Integrated Pest Management	1
HORT	101	Plant Materials	3
HORT	106	Floral Design	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	3
HORT	202	Greenhouse Production	3
HORT	210	Horticulture Practices II or (as advised)	2
HORT	241	Plant Protection	3
ACCT	100	Accounting Info and Management Decisions -or-	3
BSAD	102	Math For Business -or-	
Math	102	Intermediate Algebra w/Trigonometry Social Science (ECON 100 or as advised)* Western Civ. Or American History * Humanities Elective*	3 3 3 3
SPAN	101	Beginning Spanish or HORT elective Free Electives*	3 6
CITA	101	Principles of Computers and Applications (Prerequisite for BSAD 116) Horticulture Electives	3 3

\* (As advised) – choice of course based on a consultation with the student's advisor

#### Suggested Electives

AGRO	110	Soil Science	3
ART	120	Intro to Drawing	2
ART	121	Intro to Painting	2
BSAD	102	Mathematics in Business	3
BSAD	108	Business Law I	3
BSAD	209	Salesmanship	3
CHEM		Chemistry (as advised)	4
ENSC	106	Pesticide Use and Handling	2
HORT	103	Landscape Planning and Design I	3
HORT	105	Landscape Planning and Design II	3
HORT	150	Fruit and Vegetable Production	3
HORT	250	Horticulture/Landscape Internship	4
SPAN	101	Beginning College Spanish I	3

Also see courses listed in other Horticulture options.

#### Horticulture Production Requirements

ACCT	100	Accounting Info and Management Decisions -or-	
BSAD	102	Math For Business -or-	
Math	102	Intermediate Algebra w/Trigonometry	3
AGEN	103	Heavy Equipment Operation or (as advised)	2
AGEN	110	Small Power Equipment or (as advised)	2
BIOL	102	Botany, Form and Function of Seed Plants	3
BSAD	116	Business Organization and Management COMP OR COMM elective*	3 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	3
HORT	202	Greenhouse Production	3
HORT	210	Horticulture Practices II or (as advised)	2
HORT	241	Plant Protection	3
		Social Science (ECON 100 or as advised)* Western Civ. Or American History* Humanities Elective*	3 3 3
SPAN	101	Beginning Spanish or HORT Elective	3

#### Credits

CITA	101	Principles of Computers and Applications (Prerequisite for BSAD 116) Free Electives* Horticulture Electives	3 6 3
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\* (As advised) – choice of course based on a consultation with the student's advisor

#### Landscape Management Requirements

ACCT	100	Accounting Info and Management Decisions -or-	
BSAD	102	Math For Business -or-	
Math	102	Intermediate Algebra w/Trigonometry	3
AGEN	103	Heavy Equipment Operation or (as advised) -or-	
AGEN	110	Small Power Equipment or (as advised)	2
BIOL	102	Botany, Form and Function of Seed Plants	3
BSAD	116	Business Organization and Management	3
CAD	181	Introduction to Computer-Aided Design	1
ENSC	106	Pesticide Use and Handling or (as advised) COMP OR COMM elective*	2 3
HORT	101	Plant Materials	3
HORT	103	Landscape Planning and Design I	3
HORT	105	Landscape Planning and Design II	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) -or-	2
HORT	210	Horticulture Practices I or (as advised)	2
HORT	201	Plant Propagation or (as advised)	3
HORT	240	LandCADD	3
HORT	241	Plant Protection or (as advised)	3
NATR	160	Principles of Arboriculture or (as advised)	2
NATR	161	Practices of Arboriculture or (as advised) Western Civ. or American History * Humanities Elective* Social Science (ECON 100 or as advised)*	1 3 3 3
SPAN	101	Beginning Spanish or Hort HORTelective 3	3
CITA	101	Principles of computers and applications (Prerequisite for BSAD 116) Horticulture Electives	3 3

\* (As advised) – choice of course based on a consultation with the student's advisor

#### General Transfer Requirements

BIOL	102	Botany, Form and Function of Seed Plants	3
CHEM	121	General Chemistry I	3
CHEM121L		Lab for CHEM 121	1
CHEM	122	General Chemistry II	3
CHEM122L		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 I or (as advised)	2
HORT	210	Horticulture Practices II or (as advised)	2
HORT	241	Plant Protection	3
		Math or Natural Science (as advised) Social Science (ECON 100 or as advised)* Western Civ. Or American History* Free Electives * Horticulture Electives	6 3 3 12 9

\* (As advised) – choice of course based on a consultation with the student's advisor

\*\* Demonstrated proficiency through MATH 102 is required.

Also see courses listed in other Horticulture options.

## 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).

#### Required Core Courses

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

#### Other Required Courses

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

#### Required SUNY General Education Courses

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
MATH 102	Intermediate Algebra with Trigonometry	3
PSYC 101	Introduction to Psychology	3
BIOL 105	Human Biology with Lab	4
HIST	U.S. History, World History, or European History	3

## 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 liberal arts courses including 3 credits in math, 9 credits of math or science, 6 credits of humanities, 6 credits of social sciences, 3 credits of humanities or social science, and 3 credits of humanities, math, science, or social science

##### 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.

Required Courses		Credits
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
MATH	(as advised)	3
	Liberal Arts Electives	9
	Free Electives	34
	General Education Courses (as advised)	12

## A.A. DEGREE PROGRAM

**Admission Requirements:** Required: 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 liberal arts courses including 3 credits in math, 6 credits in math or science, 9 credits in social sciences, 12 credits in humanities, and 18 credits of humanities, math, science, or social science.

### 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.

Required Courses		Credits
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
MATH	(as advised)	3
	Liberal Arts Electives	36
	Free Electives	12
	General Education Courses (as advised)	12

## 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 liberal arts courses including, 6 credits in math or science, 6 credits in social sciences, 6 credits in humanities, and 3 credits of humanities, math, science, or social science.

**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.

Required Courses		Credits
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Liberal Arts Electives	15
	Free Electives	43

## 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.

Required Core 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 Mgmt, News & Production	3
JOUR 285	Production Lab III	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
Other Required Courses		Credits
	Liberal Arts Elective (as advised)	3
	Liberal Arts Electives (as advised)	6
	Humanities/Social Science Electives (as advised)	9
	MATH/SCIMath or Science (as advised)	3
Required SUNY General Education Courses		Credits
COMP 101	Composition and Research	3
	Gen. Education Requirement in American History	3
	Gen. Education Requirement in Social Sciences	3
COMP 102	Writing About Literature	3
	Gen. Education Requirement in Other World Civ	3
	General Education Requirement in Western Civ	3
MATH	Gen. Education Requirement in Mathematics	3
	Gen. Education Requirement in Natural Sciences	3

## 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.

**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.

REQUIRED COURSE	Credit
ARCH 101 Architectural Graphic Communication	2
CAD 181 Intro to Computer-Aided Design	1
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 240 LANDCADD	3
HORT 245 Landscape Architectural Design	3
HORT Electives	4
REQUIRED COURSE CREDITS	25
SUNY GENERAL EDUCATION CREDITS*	30
*Proficiency through MATH 103 & COMP 102 is recommended for transfer.	
ELECTIVE COURSE CREDITS	9
TOTAL PROGRAM CREDITS	64

## LIBERAL ARTS AND SCIENCES: HUMANITIES AND 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 transfer to a bachelor-degree-granting institution. Students transfer to institutions in the SUNY and CUNY systems and 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 in the social sciences and a minimum of 9 credits must be in math or science. Students need a total of 64 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 who intend to transfer to another SUNY institution should work with their advisor to complete a minimum of seven General Education areas. Morrisville State College 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.

**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****Required Courses (27-31 Credits)**

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3

**One course from the following:**

LITR 203	American Literature to 1900	3
LITR 204	American Literature 1900 to the Present	3
LITR 205	English Literature to 1800	3
LITR 206	English Literature 1800 to the Present	3
LITR 207	Western World Literature	3
LITR 208	Eastern World Literature	3

(Two-course sequence LITR 203 and 204 or LITR 205 and 206 or LITR 207 and 208 highly recommended.)

COMM 111	Introduction to Speech	3
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Two courses from one of the following history sequences:

HIST 101	United States History until 1800	3
HIST 102	United States History from 1800 to 1900	3
HIST 103	United States History from 1900 to the Present	3

	-or-	
HIST 151	World History to 1600	3
HIST 152	World History from 1500	3

	-or-	
HIST 161	European History to 1648	3
HIST 162	European History from 1500	3

	-or-	
HIST 181	History of Technology to 1800	3
HIST 182	History of Technology from 1750	3

PSYC 101	Introduction to Psychology	3
	-or-	

SOCI 101	Introduction to Sociology	3
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At least one social science course at 200 level or above

Science with Lab – students may take any science with a lab course

	On the Approved SUNY General Education List	4
	MATH as advised.	3

\*Minimum of MATH 102 is required.

**Required Distribution:**

Students must have a minimum of:

- 18 credits Humanities (12 credits will be met with required courses)
- 18 credits Social Science (12 credits will be met with required courses)
- 9 credits of Math/Science. (4 or 7 credits will be met with required courses, depending on mathematics placement)

**Additional Requirements:** A total of 64 credits is required for the A.A. degree. Credits beyond the 45 required Liberal Arts hours may be from any discipline, including the Liberal Arts.

## LIBERAL ARTS and SCIENCES: MATHEMATICS AND 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 Morrisville State College 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

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
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
CHEM121L* Lab for CHEM 121	1
CHEM122* General College Chemistry II	3
CHEM122L* Lab for CHEM 122	1
CHEM241* Organic Chemistry I	3
CHEM241L* Lab for CHEM 241	1
CHEM242* Organic Chemistry II	3
CHEM242L* Lab for CHEM 242	1
<b>ADDITIONAL REQUIRED COURSES</b>	
COMP 101* Composition and Research	3
MATH 151* Analytical Geometry and Calculus I	3
REQUIRED COURSE CREDITS	46
SUNY GENERAL EDUCATION CREDITS <sup>1</sup>	
GENERAL ELECTIVE CREDITS <sup>3</sup>	2
ELECTIVE COURSE CREDITS NEEDED	14
TOTAL PROGRAM CREDITS	60

\*courses on the SUNY General Education list

<sup>1</sup> 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

<sup>3</sup>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 AND SCIENCES: TEACHER EDUCATION TRANSFER—CHILDHOOD, EARLY CHILDHOOD AND 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. Morrisville State College 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.

#### Required Courses

##### 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
Early Childhood and Childhood options:		
PSYC 241	Child Development	3
Adolescence option:		
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	Analytic Geometry and Calculus I	3
MATH 152	Analytic Geometry and Calculus II	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	Analytic Geometry and Calculus I	3
MATH 152	Analytic Geometry and Calculus II	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.

**Program Learning Outcomes: Upon successful completion of this program, students will be able to:**

- Identify and analyze pathologies
- Develop appropriate treatment plans based on client assessment.
- Demonstrate effective and safe delivery of therapeutic massage utilizing a variety of techniques.
- Communicate in a professional and effective manner with clients and the general public.
- Demonstrate professional, ethical behaviors.
- Document massage 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

**COURSE****CREDIT****REQUIRED CORE COURSES**

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

**ADDITIONAL REQUIRED COURSES**

BIOL 135 <sup>^</sup>	Myology I	3
BIOL 136 <sup>^</sup>	Myology II	3
BIOL 137	Neurology	4
BIOL 150 <sup>^</sup>	Human Anatomy and Physiology I	4
BIOL 151 <sup>^</sup>	Human Anatomy and Physiology II	4
COMP 101 <sup>^</sup>	Composition and Research	3
COMP 110	Technical Communications	
	-or-	
COMM 111 <sup>^</sup>	Introduction to Speech	3
PSYC 101 <sup>^</sup>	Introduction to Psychology	3

REQUIRED COURSE CREDITS 58

GENERAL ELECTIVES<sup>3</sup> 2

ELECTIVE COURSE CREDITS NEEDED 2

TOTAL PROGRAM CREDITS 60

DEMONSTRATED PROFICIENCIES THROUGH MAGN 101 IS REQUIRED

<sup>^</sup>Courses on the Liberal Arts and Science list

<sup>3</sup>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 TAC 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 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:

- an ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities;
- an ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge;
- an ability to conduct standard tests and measurements, and to conduct. Analyze, and interpret experiments;
- an ability to function effectively as a member of a technical team;
- an ability to identify, analyze, and solve narrowly defined engineering technology problems;
- an ability to apply written, oral, and graphical communication in both technical and non-technical environment; and an ability to identify and use appropriate technical literature;
- an understanding of the need for and an ability to engage in self-directed continuing professional development;
- an understanding of and a commitment to address professional and ethical responsibilities, including a respect for diversity; and
- 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.

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
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
MECH120 <sup>^</sup> Engineering Materials	3
MECH211 <sup>^</sup> Analytical Mechanics	3
MECH 212 Mechanical Design	4
MECH213 <sup>^</sup> Strength of Materials	4
MECH 233 Fluid Power and Control	4
<b>ADDITIONAL REQUIRED COURSES</b>	
PHYS 107 <sup>^</sup> Introductory Physics I	4
COMP 101 <sup>^</sup> Composition and Research	3
MATH 151 <sup>^</sup> Analytical Geometry and Calculus I	3
COMP 110 <sup>^</sup> Technical Communications	3
REQUIRED COURSE CREDITS	57
GENERAL ELECTIVE CREDITS <sup>3</sup>	3
ELECTIVE COURSE CREDITS NEEDED	3
TOTAL PROGRAM CREDITS	60

<sup>^</sup>Courses on the Liberal Arts and Science list

<sup>3</sup>Three additional credits are needed to fulfil the 60 credit 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 Morrisville State College. 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 three, four-year degree programs in the School of Business 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 a medical office; billing and/or coding specialist in medical offices, hospitals, and insurance companies; and medical transcriptionist for medical establishments. 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 64 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

Required Medical Office Administration Courses			Credits
(minimum 33 hours)			
OFFT 109	Intro. To Presentation Software		1
OFFT 116	Medical Keyboarding		2
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

### Required Accounting, Business & Computer Courses

(minimum 9 hours)

ACCT 100	Accounting Info and Mgmt. Decisions	3
BSAD 102	Business Math	3
BSAD 140	Business Communications	3

### General Education Requirements

(minimum 22 hours)

COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Math or Science Elective	3
BIOL 150	Human Anatomy and Physiology I	3
BIOL 150L	Human Anatomy and Physiology I Lab	1
	Social Science Elective	3
	Social Science Elective	3
	Gen Ed Elective	3

## 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 64 credit hours of course work 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.

### REQUIRED ENVIRONMENTAL SCIENCE COURSES

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
AGEN 103	Natural Resource Equipment Operation	2
AGRO 110	Soil Science	3
	Technical Elective	2

### Three of the following five 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

### REQUIRED COMPUTER COURSES

OFFT 110	Introduction to Spreadsheet Software	1
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### GENERAL EDUCATION REQUIREMENTS (20 credits minimum)

COMP/COMM	From COMP 101, 102, 110, or COMM 111 (as advised) to meet Gen Ed comm. requirements
GER Elective:	History/Other World Civilizations (as advised) Social Science (as advised)

### SOCIETY OF AMERICAN FORESTERS ACCREDITED FOREST TECHNOLOGY CONCENTRATION MINOR

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 NATR 211 Forest Protection, NATR 215 Practices of Silviculture and NATR 232 Wildlife Ecology and Management as their three capstone electives, 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:

It is the mission of the Division of Nursing to deliver a program that will prepare registered professional nurses at the associate degree level who can practice in an evolving health care environment influenced by social, political, economic and technical trends through lifelong learning based on nursing theory as well as the arts, sciences, and mathematics.

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).

First-year courses are offered on an evening schedule at the Norwich campus. 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)

### Career Opportunities:

The Nursing program prepares the graduates for careers in acute care hospitals, long-term care facilities, home care, community based agencies, and rehabilitative facilities.

Upon completion of the program, the graduate nurse receives the associate in applied science degree and is eligible to apply for the National Council Licensure Examination (NCLEX- RN) for licensure as a Registered Professional Nurse. Candidates for licensure must meet all requirements for licensure 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 Associate Dean 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 Associate Dean 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 the Associate Dean of Nursing at Morrisville State College 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.

#### Program Requirements:

Nursing is a competitive program that requires students to have a strong background in biology, chemistry and math. All applications are reviewed holistically for admission to the college. It is strongly suggested that SAT and/or ACT scores be submitted.

- Minimum GPA: 2.75 for transfer students
- Placement in MATH 102
- NLN Pre-Admission test with a minimum composite score of 100 out of a possible 200
- Students who were unsuccessful in other nursing programs may not be eligible for admission. Students who do not meet the admission requirements for the Nursing program may be admitted to the Liberal Arts/Science curriculum. A minimum cumulative average of 2.75 is required for admission to Nursing. Students who desire to be enrolled on a full-time basis while completing prerequisite course work may be scheduled for the following suggested plan which may include six semesters for degree completion. These students will be advised by a Nursing Faculty member who can suggest coursework appropriate to the area of interest.
- For complete admission information, contact the Admissions Department or view the program pages at [morrisville.edu/nursingaas](http://morrisville.edu/nursingaas)

#### 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

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 objectives with or without reasonable accommodations students must demonstrate:

1. 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.
2. 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. The test results and a written plan of accommodation/treatment signed by a physician must accompany the annual physical examination.

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.

#### Transportation Information:

Transportation is available from the Morrisville State College 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 Associate Dean 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.

Nursing is a competitive program that requires students to have a strong background in biology, chemistry and math. All applications are reviewed holistically for admission to the college. It is strongly suggested that SAT and/or ACT scores be submitted.

In order to be admitted directly into the Nursing Program, successful applicants must also take the NLN ([www.nlnonlinetesting.org](http://www.nlnonlinetesting.org)) and receive a minimum score of 100. Accepted students who do not successfully score 100 or above on the NLN or who otherwise lack prerequisite academic background may be offered admission into Liberal Arts: Math and Science. These students will be advised by a Nursing Faculty member who can suggest coursework appropriate to the area of interest.

For complete admission information, contact the Admissions Department or view the program pages at [morrisville.edu/nursingaas](http://morrisville.edu/nursingaas)

#### Program 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:

- Synthesize nursing knowledge in managing the holistic care of individuals with complex common health problems in their environment;
- Utilize the process of critical thinking to incorporate the arts, sciences and humanities with nursing knowledge to design and manage nursing care;
- Adhere to standards of professional nursing practice as defined by statute and professional nursing organizations;
- Incorporate effective communication techniques within professional relationships;
- Employ the use of technology in professional nursing practice;

#### Program Outcomes:

- Graduates of the program will meet or exceed the national pass rate on the NCLEX-RN licensing exam.
- Eighty percent of the graduates will be employed in nursing and/or will be enrolled in a baccalaureate program.
- Ninety percent of employers will be satisfied with the graduates' performance.
- Ninety percent of graduates will be satisfied with their preparation to practice as entry-level registered nurses working independently within the scope of nursing practice in a variety of health care settings and all levels of care.

#### 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

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.

#### REQUIRED CORE COURSES:

NURS 105	Fundamentals in Nursing IA	3
NURS 110F	undamentals in Nursing IB	4
NURS 150	Nursing Care of the Individual with Common Health Problems	8
NURS 152	Pharmacology I	1
NURS 210	Nursing Care of the Individual with Common Complex Health Problems	8
NURS 212	armacology II	1
NURS 250	Nursing Care of the Individual with Multiple Common Complex Health Problems	8
NURS 251	Transition into Practice	2
NURS 252	Pharmacology III	1

#### ADDITIONAL REQUIRED COURSES:

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	
COMP 102^	Writing About Literature	3
NUTR 108	Basic Nutrition	3

PSYC 101^	General Psychology	3
PSYC 241^	Child Development	3

REQUIRED COURSE CREDITS 63

TOTAL PROGRAM CREDITS 63

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 specialized knowledge in the medical, corporate, office management, or information processing fields. 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 state positions. Students are encouraged to participate in an internship program their second year where they combine their education and interpersonal skills. Various Keyboarding, Word Processing I, Word Processing II and Business Math courses may be earned through articulation agreements between various high schools and Morrisville State College.

Distance learning courses are currently in place or are being developed currently, in such courses as Business Communications, Office Management, Administrative Support Staff Procedures, Accounting Information and Management Decisions and Introduction to Sociology. 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 business courses. Two credit hours may be earned by proficiency examination in keyboarding (1 or two credits). 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. Credits may be transferred to Morrisville's BBA (Business Administration Degree), our B. Tech. – Medical Office Administration Degree or any other four-year institution toward completion of programs in business teacher education, office management, and related fields.

**Career Opportunities:** Employment available in industry, small business, banking and finance, medicine, law, civil service, airlines, insurance, communications and foreign service.

**Graduation Requirements:** Minimum 62 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)

#### Required Office Administration Courses Credits

(Minimum 21 hours)		
OFFT 111	Keyboarding 1A	1
OFFT 112	Keyboarding 1B	1
OFFT 113	Keyboarding 2A	1
OFFT 114	Keyboarding 2B	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	2
OFFT 292	Office Technology Internship II	1

#### Required Accounting, Business & Computer Courses Credits

(Minimum 21 hours)		
ACCT 100	Accounting Info and Mgmt. Decisions	3
BSAD 100	Business in the 21st Century	3
BSAD 102	Business Math	3
BSAD 104	Organizational Behavior	3
-or-		
BSAD 116	Business Organization and Management	3
BSAD 140	Business Communications	3
BSAD	Business Elective	3
CITA 101	Principles of computer applications	3

#### General Education Requirements Credits

(minimum 20 hours)		
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Math or Science Elective	3
	Social Science Elective	3
	Social Science Elective	3
	Humanities/Math or Science/Social Science Elective	3

#### Available Business Electives

BSAD 108	Business Law I
BSAD 116	Marketing
BSAD 215	Human Resource Management
BSAD 224	Managing Diversity in the Workplace
JOUR 270	Desktop Publishing
OFFT 109	Intro. to Presentation Software
OFFT 200	Medical Coding
OFFT 201	Outpatient Billing
OFFT 202	Inpatient Billing
OFFT 218	Medical Office Procedures
OFFT 250	Medical Terminology
OFFT 251	Office Management

Many of the above courses are offered both fall and spring semester.

## 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 63 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 communicate effectively through both oral and written means of communication
- To design, implement and evaluate a variety of documents used in today's office workforce
- To design, implement and evaluate strategies for solving various situations that arise in today's office workforce
- To recognize and promote ethical and responsible business practices
- To effectively meld technical knowledge with information technology proficiency
- To incorporate company computer needs into working solutions by establishing simple databases, spreadsheets, merging information into reports, budgets, proposals, etc., useful to all departments within the corporate structure
- To effectively hold meetings that incorporate action from all participants and conclude with "to do lists"
- To prepare students with an understanding of how intranet services affects all employees in all departments within their daily job duties
- To work closely with IT employees in large companies and assist where needed
- To effectively communicate with all levels of an organization (employees, customers, top level executives and investors/board of trustees)
- To prepare students to work in a fast paced, multi-tasked position within a busy office environment
- To prepare students with a solid background and comfort level of online classes which may become necessary for them to stay current with technology changes to update their skill set in the future

#### Required Office Technology Courses Credits

(minimum 19 hours)		
OFFT 111/112	Keyboarding 1A and Keyboarding 1B	2
OFFT 113/114	Keyboarding 2A and Keyboarding 2B	2
OFFT 109	Intro. to Presentation Software	1
OFFT 120	Document Design for Effective Communications	3
OFFT 130	Data Entry	1
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

#### Required Accounting, Business, Computer Courses Credits

(minimum 24 hours)		
ACCT. 100	Accounting Info and Mgmt. Decisions	3
BSAD 100	Business in the 21st Century	3
BSAD 102	Business Math	3
BSAD 140	Business Communications	3
BSAD	Electives	6
CITA 101	Principles of Computer and Applications	3

#### General Education Requirements (7 out of 10 categories) Credits

(minimum 20 hours)		
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Math or Science Elective	3
	Math or Science Elective	3

Social Science Elective	3
Social Science Elective	3
Humanities/Math or Science/Social Science Elective	3

### Available Business Electives

(All are not offered every semester or every year)

BSAD 108	Business Law I
BSAD 116	Business Org. & Management
BSAD 215	Human Resource Management
BSAD 224	Managing Diversity in the Workplace
JOUR 270	Desktop Publishing
OFFT 200	Medical Coding
OFFT 201	Outpatient Billing
OFFT 202	Inpatient Billing
OFFT 218	Medical Office Procedures
OFFT 250	Medical Terminology
OFFT 251	Office Management

Many of the above courses are offered both fall and spring semester.

## 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, such as the Internet, are emphasized. Students in this program also take Business Administration courses and may transfer to a four-year college and major in Office Administration.

Graduates of the Office Administration: Management program receive the Associate in Applied Science 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/management of employees. Program transfers to four-year Office Administration programs.

**Graduation Requirements:** A minimum of 64 credit hours with a cumulative GPA of 2.0 or higher is required. Minimum of two modules of Keyboarding through Keyboarding 2B. An average of C or above in all OFFT courses is required for graduation. OFFT 216, OFFT 130, and OFFT 220 are highly recommended business electives..

### Program Learning Outcomes:

- To communicate effectively through both oral and written means of communication
- To design, implement and evaluate a variety of documents used in today's office workforce
- To design, implement and evaluate strategies for solving various situations that arise in today's office workforce
- To recognize and promote ethical and responsible business practices
- To effectively meld technical knowledge with information technology proficiency
- To utilize professional telephone and customer service etiquette
- To prepare and organize documentation for business meetings, trips, (including agendas and itineraries)
- To receive oral dictation and develop professional documents from such dictation
- To prepare students to work in a fast paced, multi-tasked position within a busy office environment
- To understand corporate chain of command and to know how to work in an environment with many supervisors requiring your assistance

- To organize a virtual office for small companies who may outsource student's work or utilize their skills on a part-time basis
- To prepare students with a solid background and comfort level of online classes which may become necessary for them to stay current with technology changes to update their skill set in the future

Required Office Admin/Mgt Courses		Credits
(minimum 22 hours)		
OFFT 109	Intro. to Presentation Software	1
OFFT 111/112	Keyboarding 1A and Keyboarding 1B	2
OFFT 113/114	Keyboarding 2A and Keyboarding 2B	2
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

Required Acct, Business & Computer Courses		Credits
(minimum 21 hours)		
ACCT 100	Accounting Info and Mgmt. Decisions	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
CITA 101	Principles of Computer and Applications	3

General Education Requirements (7 out of 10 categories)		Credits
(minimum 20 hours)		
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
	Math or Science Elective	3
	Math or Science Elective	3
	Social Science Elective	3
	Social Science Elective	3
	English/Math or Science/Social Science Elective	3

## 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 MSC. Additional transfer opportunities and articulation agreements are being developed with other 4-year institutions in New York.

**Graduation Requirements:** A minimum of 64 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).

Demonstrated proficiency through MATH 102 – Intermediate Algebra with Trigonometry

Demonstrated proficiency through PHYS 107 with lab – Introductory Physics I  
AND

Demonstrated proficiency through CHEM 101 with lab – Basic Chemistry  
OR

Demonstrated proficiency through BIOL 120 with lab – General Biology

#### 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

### Required Courses

Major Requirements		Credits
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
ELEC 190	Electrical Theory I	4
ELEC 291	Electromechanical Energy Devices	3
ELEC 290	Digital Circuits and Microprocessors	3
NATR 213	Basics of Geospatial Technology	1
-or-		
CAD 181	Intro to Computer-Aided Drafting	1
		<b>28</b>

#### Liberal Arts and Sciences

PHYS	Physics with Lab (as advised)	4
CHEM	Chemistry with Lab (as advised)	4
-or-		
BIOL	Biology with Lab (as advised)	4
MATH	Math (as advised)	3
COMP 101	Composition and Research	3
COMP 102	Writing about Literature	3
HIST	(as advised)	3
	Social Science (as advised)	3
		<b>23</b>

Total Required Courses Credits	51
Technical Electives	13
Minimum Total Curriculum Credits	64

## 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 construction 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

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
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

**ADDITIONAL REQUIRED COURSES**

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 215	Human Resource Management	3
ACCT 100	Accounting Info & Management Decisions	3
COMP 101^	Composition and Research	3
COMP 110^	Technical Communications	3

REQUIRED COURSE CREDITS 52

GENERAL ELECTIVE CREDITS3 8

ELECTIVE COURSE CREDITS NEEDED 8

TOTAL PROGRAM CREDITS 60

DEMONSTRATED PROFICIENCIES THROUGH SKLS 091

^Courses on the Liberal Arts and Science list

3Eight 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 64 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 MSC 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.

**REQUIRED HOSPITALITY CORE COURSES**

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	
FSAD 205	Food and Beverage Merchandising and Management I	4
	-or-	
CAS 240	Hospitality Sales & Marketing	
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

**REQUIRED BUSINESS COURSES**

ACCT 100	Accounting Information and Management	3
OFFT 110	Introduction to Spreadsheet Software	1

**REQUIRED GENERAL EDUCATION COURSES (20 credits)**

ENGL	English (as advised)	
	Social Science (as advised)	
	Math or Sciences (as advised)	

**SPORTS, NUTRITION, AND FITNESS****MANAGEMENT A.S.—CODE #1450**

**Program Description:** The Sports Nutrition and Fitness Management 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 Morrisville State College, Exercise Physiology, Physical Education, Kinesiology, Athletic Training, and Health Education.

**Career Opportunities:** The Sports, Nutrition and Fitness Management 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 Sports, Nutrition and Fitness Management program prepares graduates for transfer to upper division programs in sports medicine, physical education, athletic training, or community health education. Local transfer opportunities include Morrisville State College (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

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
HHPH 100 Introduction to Wellness and Fitness	4
HHPH 101 Fieldwork in HHPH (45 hrs)	1
HHPH 200 Exercise Physiology I	4
HHPH 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
<b>ADDITIONAL REQUIRED COURSES</b>	
NUTR 110 Nutrition I	3
PHYS 107* Introductory Physics I	4
COMP 101* Composition and Research	3
COMM111* Introduction to Speech	3
MATH 103* College Algebra with Trigonometry	3
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
REQUIRED COURSE CREDITS	54
SUNY GENERAL EDUCATION CREDITS*1	6
ELECTIVE COURSE CREDITS NEEDED	6
TOTAL PROGRAM CREDITS	60

\*Courses on the SUNY General Education list

<sup>1</sup> 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

## 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, Morrisville State College 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 MSC'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 64 credit hours earned and maintain at least a 2.0 gpa. Students must also complete at least 6 credits in the Math/Science area, 6 credits of Humanities, 6 credits of Social Science and additional credits as necessary to achieve 20 minimum credit hours in Liberal Arts. Also, a residency requirement of 30 credit hours at MSC 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.

### Required Hospitality Courses

#### (37 credits required)

		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

### Required Business Courses

#### (4 credits required)

		Credits
ACCT	100 Accounting Information & Mgt. Decisions	3
OFFT	110 Introduction to Spreadsheet Software	1
	-or-	
OFFT	106 Personal Computer Keyboarding I	1
	-or-	
OFFT	109 Introduction to Presentation Software	1

### Required General Education Courses

#### (20 credits required)

	(as advised)	6
	Social Science (as advised)	6
	Math or Science (as advised)	6-8
	Elective (as advised)	2

### General Electives

#### (3 credits required)

Suggested Electives 3

### Suggested Electives

TOUR	200 Internship in Customer Service	3
BSAD	108 Business Law I	3
COMP	111 Introduction to Speech	3
MATH	141 Statistics	3
PSYC	101 Introduction to Psychology	3
ECON	100 Introduction to Macroeconomics	3
CAS	101 Introduction to Casino Industry	3
CAS	102 Introduction to Gaming	3
FREN	101 Beginning French	3
SPAN	101 Beginning College Spanish I	3
CAS	280 Leadership Development Strategies for the Hospitality Industry	3

\*\* These courses feature the "value-added" enhancement of national certification by the American Hotel/Motel Association.

## 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 Profimate #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.

### FINISHED CARPENTRY Option

#### **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.

COURSE	CREDIT
<b>REQUIRED CORE COURSES</b>	
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
<b>ADDITIONAL REQUIRED COURSES</b>	
RESC 130 Light Framing	3
RESC 160 Introduction to Building Materials & Estimating	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
MATH102^ Intermediate Algebra with Trigonometry	3
NATR SCI^ AS ADVISED	3
REQUIRED COURSE CREDITS	50
LIBERAL ARTS AND SCIENCE ELECTIVE CREDITS <sup>^2</sup> 11	
TOTAL ELECTIVE CREDITS NEEDED	11
TOTAL PROGRAM CREDITS	61

<sup>^</sup>Courses on the Liberal Arts and Science list

<sup>2</sup>Eleven additional credits are needed to fulfill the 20 credit Liberal Arts and Science requirement

## FURNITURE PRODUCTION AND BUSINESS OPTION

### 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.

<b>REQUIRED CORE COURSES</b>		
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		3
WOOD 271 Cabinet Design and Manufacturing		3

### ADDITIONAL REQUIRED COURSES

BSAD 112 Marketing		3
BSAD 215 Human Resource Management		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
MATH102^ Intermediate Algebra with Trigonometry		3
NATR SCI AS ADVISED^		3

REQUIRED COURSE CREDITS	50
LIBERAL ARTS AND SCIENCE ELECTIVE CREDITS <sup>^2</sup> 11	11
ELECTIVE COURSE CREDITS NEEDED	11
TOTAL PROGRAM CREDITS	61

<sup>^</sup>Courses on the Liberal Arts and Science list

<sup>2</sup>Eleven additional credits are needed to fulfill the 20 credit Liberal Arts and Science requirement

# CERTIFICATE PROGRAMS

## AGRICULTURAL MECHANICS One-Year Certificate – 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

Fall Semester	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
AUTO 103 Internal Combustion Engines	3
AUTO 260 Automotive Air Conditioning	1

### Spring Semester

AGEN 125 Rural and Residential Electrification	3
AGEN 140 Welding	3
AGEN 210 Small Power Equipment II	3
DTEC 105 Powertrains I	4
AGEN 220 Maintenance, Repair, and Performance Tuning of Arctic Cat Power Equipment	4

15

16

## CASINO CAREERS PROFESSIONAL DEVELOPMENT PROGRAM One-Year Certificate – 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.

<b>COURSE REQUIREMENTS</b>			<b>Credits</b>
FSAD	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
			<b>18</b>

Courses are offered on an alternating basis.

## **OFFICE ADMINISTRATION One-Year Certificate – CODE #0996**

The Word Processing program is designed for the student who wishes to develop new office skills, particularly in the areas of word processing, 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.

Many, if not all courses are available online for those students who work full time and cannot attend classes during the day. This certificate program is offered both at the Morrisville main campus (day classes) and/or at the Norwich campus (day/evening classes).

Students are trained in proper keyboarding and machine transcription techniques, word processing skills and procedures, data processing basics, 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 student desiring skill 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 Technology.

Accreditation: The Office Technology program is accredited by the Association of Collegiate Business Schools and Programs (ACBSP).

<b>COURSE REQUIREMENTS</b>			<b>Credits</b>
BSAD	102	Business Mathematics	3
BSAD	140	Business Communications	3
OFFT	120	Word Processing I	3
OFFT	130	Data Entry	1
OFFT	113*	Keyboarding 2A	1
OFFT	114	Keyboarding 2B	2
OFFT	210	Administrative Support Staff Procedures	3
OFFT	135	Machine Transcription	1
ACCT	100	Accounting Information and Management Decisions	3
OFFT	216	Professional Office Practice Simulation	3
OFFT	220	Word Processing II	3
		General Electives	4
OFFT	291	Office Tech Internship I	1
OFFT	292	Office Tech Internship II	1
			<b>31</b>

\* 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 AND MANAGEMENT DECISIONS

This course, for non-business majors only, is an accounting approach to measuring and reporting on 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, spring semester*

### 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, 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:** Overall GPA of 2.0

*3 credits (3 lecture hours), 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 AND 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 AND 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 AND 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 ours), 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 e-commerce 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 AND 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 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*

### **AGEN 104 - ESTATE AND 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 AND 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 agricultural, 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.

**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 responsible for scheduling, servicing, performing repairs of equipment for the college community. A basic set of tools is required.

**Prerequisite:** AGEN 100 and AGEN 110 or DTEC 150

*3 credits (2 lecture hours, 3 laboratory hours), spring semester*

### **AGEN 220 – MAINTENANCE, REPAIR, AND 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 161, MAGN 101 or permission of instructor.

*4 credits (2 lecture hours, 1 recitation hour, 2 laboratory hours), fall semester*

### **AGEN 270 - TRACTOR OVERHAUL AND 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 AND NATURAL RESOURCES**

### **AGNR 200 – JOB PREPARATION SKILLS AND 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 research 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 AND SOILS)

### AGRO 105 - SOIL AND 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 AND 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 AND 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 AND 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 AND 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 AND DESIGN

### ARCH 101 - ARCHITECTURAL GRAPHIC COMMUNICATIONS

This is a drawing course designed to teach the student interested in architecture to recognize and graphically depict forms and textures in

the natural and built environment. Instruction will be given in the use of basic pencil, color drawing and rendering techniques; freehand and hardline drafting/drawing; orthographic projections as well as in the principles of pictorial (oblique, axonometric and perspective) drawing. These drawing techniques, methods and principles will aid the student in the development of their drawing skills and in their own rendering style. The course will culminate in the execution and composition of a comprehensive architectural presentation.

**Co-requisites:** MATH 102 (minimum), ARCH 141 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 (min.) 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. The student 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 design.

**Pre-or Co-requisites:** ARCH 101, MATH 102 (min.) 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, second in a series of four courses, 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 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

**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 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  
*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. Students may work in teams and individually to creatively design and present solutions. Projects will vary depending on the progress and approach to architectural design as deemed appropriate by the faculty member.

**Prerequisite:** ARCH 243  
*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 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

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  
*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 in this course are site planning (interpolation and grading), traditional and innovative roofing systems, building accessibility and traditional construction drawing documentation – project manuals/specifications.

**Prerequisites:** ARCH 271, 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 TECHNOLOGY

### FORD ASSET PROGRAM

#### ASET 101 - INTRODUCTION 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 components along with identification and proper use of various automotive hand and power tools. Upon completion, students should be able to describe terms associated with automobiles, identify and use basic tools and shop equipment, and use information sources and conduct safety/emissions and/or PDI inspections.

*2 credits (64 hours combined lecture and laboratory), alternate fall semesters*

#### ASET 102 - 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, and anti-lock and parking brake systems. Upon completion, students should be able to diagnose, service, and repair various automotive systems.

**Prerequisite:** ASET 103  
*3 credits (80 hours combined lecture and laboratory), alternate fall semesters*

#### ASET 103 - BASIC 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 101  
*3 credits, (96 hours combined lecture and laboratory) alternate fall semesters*

#### 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 102  
*3 credits (128 hours combined lecture and laboratory), spring semester*

#### ASET 122 - ELECTRICAL AND 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 meters, oscilloscopes, NGS, SBTS, and SBDS test equipment, and repair automotive electrical and electronic components and systems.

**Prerequisite:** ASET 102  
*4 credits (128 hours combined lecture and laboratory), alternate spring semester*

#### ASET 123 - COOPERATIVE TRAINING I

A supervised field work program with the students' sponsoring Ford or Lincoln-Mercury 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 102  
*1 credit (2-3 weeks of combined experience), alternate spring semesters,*

#### ASET 160 - APPLIED ELECTRICITY AND 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 oscilloscopes (voltage drops, current testing, and resistance checks) are covered.

**Prerequisite:** ASET 103 or permission of instructor  
*3 credits (2 lecture hours, 2 laboratory hours), spring semester*

### **ASET 200 - COOPERATIVE TRAINING II**

A supervised fieldwork program with students' sponsoring Ford or Lincoln-Mercury 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), summer*

### **ASET 201 - STEERING AND SUSPENSION SYSTEMS**

This course covers principles of operation, types, and diagnosis/repair of suspension and steering systems to include steering geometry. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. 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), alternate fall semesters*

### **ASET 202 - MANUAL TRANSMISSION AND 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 drive trains.

**Prerequisite:** ASET 122

*3 credits (80 hours combined lecture and laboratory), alternate fall semesters*

### **ASET 203 - 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 service climate control systems using appropriate tools, equipment, and service information.

**Prerequisite:** ASET 122

*2 credits (64 hours combined lecture and laboratory), fall semesters*

### **ASET 222 - ENGINE PERFORMANCE**

This course covers the principles of fuel delivery/management, exhaust/emission systems, and 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 using appropriate service information. 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 semesters*

### **ASET 223 - AUTOMATIC TRANSMISSIONS**

This course covers operation, diagnosis, service and repair of automatic transmissions/transaxles. Topics include hydraulic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to explain operational theory and diagnose and repair automatic drive trains.

**Prerequisite:** ASET 122

*4 credits (128 hours combined lecture and laboratory), spring semester*

### **ASET 225 - CO-OPERATIVE TRAINING III**

A supervised field work program with students' sponsoring Ford or Lincoln-Mercury 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 201, 202 and 203

*1 credit (2-3 weeks of combined experience), alternate spring semesters*

## **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 break 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 AND 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 AND 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 AND 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 AND 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 AND 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 AND 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 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

## 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 Requirement 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 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 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 AND 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 105 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 AND 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 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 AND 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 with lab, DANS 120, or ESCI 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 ESCI 430 and BIOL 235  
*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 courses it 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 235 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 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

## BUSINESS ADMINISTRATION

### BSAD 100 - BUSINESS IN THE 21ST CENTURY

This course provides a broad introduction to the essentials of American business for 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 economics, entrepreneurship, forms of business organization, production and operations management, marketing, money and banking, financial management, securities markets, insurance, 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 solving common business problems. Topics include: business checking accounts, credit card processing, cash and trade discounts, principles of markup and markdown, payroll, simple and discount interest notes, mortgages, property taxes, consumer loans and insurance.

*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**

The course examines the legal aspects of operating a casino with particular attention to liability, personal and property liability, labor laws, crimes, torts, evictions and negligence. Also an examination of the laws and regulations 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 choosing a career, 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), fall semester*

### **BSAD 112 - MARKETING**

This course introduces students to the marketing of goods and services in a dynamic business environment. This course is designed to familiarize students with most of the activities and strategies employed by marketers. Emphasis is placed on small business and the focus is directed to both business and non-business situations. The course will examine product development, pricing, distribution, promotion, consumer behavior, sales retailing and wholesaling, marketing research, and ethics and other related topics. Emphasis is placed on small business and the focus is directed to both business and non-business situations.

*3 credits (3 lecture hours), fall or spring semester*

### **BSAD 116 - BUSINESS ORGANIZATION AND 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- or Co-requisite** COMP 100

**Pre-requisites** 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), fall or spring semester*

### **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 covers principles and techniques of personal selling and sales management within a marketing framework. Topics include the selling process, sales ethics, building trust, planning and controlling, persuasive communication negotiation, sales presentations, creating value, earning commitment, overcoming objections and building long-term customer relationships.

*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**

Personnel principles and tools useful to any employee or prospective manager are part of this course. Topics include recruitment, selection, personnel evaluation, personal development, compensation and benefits, the development and influence of labor unions and collective bargaining, public policy and laws in the labor and personnel 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), spring semester*

### **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 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 School of Business an opportunity to apply their knowledge in business situations. Students will work 135-150 hours at a training site, and their work will be coordinated through a faculty member in the School of Business. Course work includes resume writing, interviewing and job preparation.

*3 credits, grade S/U*

### **BSAD 295 - SPECIAL TOPICS IN BUSINESS**

This course allows students to participate in a computer application that simulates activities of a real business. This course is recommended for seniors because it is a comprehensive business curriculum course. In addition to the simulation, ethics and job preparation are emphasized.

**Prerequisites:** ACCT 101, BSAD 112

*3 credits (3 lecture hours), 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 312 or BSAD 140, BSAD 116 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 101, BSAD 108, BSAD 112 or permission of the instructor  
*3 credits (lecture hours), fall or spring semester*

### **BSAD 325 - ANALYTIC MARKETING**

This course primarily focuses on data manipulation, data analysis and data comparison relative to the marketing mix (price, product, promotion and distribution). Students will learn basic marketing principles, research techniques and strategies for analyzing and interpreting data. Using computers and software applications, students will gather and interpret information, assess marketing conditions and suggest corrective strategies for success. Additionally, students will complete marketing plans supported by appropriate analysis and a final presentation.

**Prerequisites:** BSAD 116, ECON 100 or 140, or permission of instructor.  
*3 credits (2 lecture hours, 2 laboratory hours), fall or spring semesters*

### **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), spring 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.

**Prerequisite:** BSAD 116, or permission of instructor.  
*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:** BSAD 325, BSAD 343 or permission of instructor  
*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), spring semester*

## **BSAD 391 INTERNSHIP IN BUSINESS**

The 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.

**Co and Prerequisites:** BSAD 350 with a “B” or higher, concurrent enrollment in BSAD 470 or ENTR 417 or permission of the instructor. Successful completion of CITA 405 is highly recommended.

*3 credit hours, fall or spring 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

*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 or spring semester*

## **BSAD 411 - LEADERSHIP IN ORGANIZATIONS**

This course reviews and analyzes the major theories and conceptualizations of leadership, giving special attention to how each theoretical approach is applicable to real-world organizations. Major concepts include transformational leadership, team leadership, the psychodynamic approach, women and leadership, and responsible business practices. A discussion regarding the important link between leadership and responsible business behavior is included.

**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), fall semester*

## **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.

**Prerequisites:** BSAD 108 and BSAD 343 or by permission of instructor  
*3 credits (3 lecture hours)*

### **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 sports 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.

**Prerequisites:** BSAD 353 and BSAD 418  
*3 credits (3 lecture hours)*

### **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**

The 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.

**Co and Prerequisites:** BSAD 350 with a “B” or higher, concurrent enrollment in BSAD 470 or ENTR 417 or permission of the instructor. Successful completion of CITA 405 is highly recommended.  
*3 credit 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, 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 101, 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.

**Prerequisite:** second year standing in the Casino Management Program or permission of instructor  
*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 104, 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 unknowns.

**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. Significant number and types of experiences.

**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 (NYSPHSAA). 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), spring semester*

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), spring semester, even years.*

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 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 first 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

*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 - COMPUTER APPLICATIONS I

A survey of equipment and programs used in common computer systems. Topics include internal storage, input/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 testout 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 a 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 275 – 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, 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 275.

**Prerequisites:** CITA 101 or CITA 110, or permission of instructor  
*3 credits (3 lecture hours), fall and spring semesters*

### **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 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 400 - QUANTITATIVE APPROACHES TO MANAGEMENT

A study of the decision-making process and how quantitative methods are used to find solutions to business problems. Computer software tools will be used to analyze and process data. Opportunities, problems and decisions that confront managers are analyzed and solutions are developed. Topics covered include, but are not limited to: cost-volume-profit analysis, forecasting, decision theory, linear programming, probability concepts and applications, inventory control, queuing theory, and game theory.

**Prerequisites:** BSAD 221 or MATH 141, or permission of the instructor  
*3 credits (3 lecture hours), 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 interactive 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 networking. 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 – WEB DEVELOPMENT

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  
*3 credits (3 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, 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 DELIQUENCY**

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 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 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 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.

*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.

*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*

## **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, dehorning, 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 - CORNELL 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 disassembly 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 350 - ADVANCED DIESEL FUEL SYSTEMS**

A continuation 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 157  
*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 AND 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 AND 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) fall semester*

### 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 – GUERRILLA TACTICS FOR SMALL BUSINESS MARKETING

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 and innovation are emphasized.

**Prerequisites:** ENTR 317 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, spring semester*

### 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*

### 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, spring semester*

### 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*

## ENVIRONMENTAL SCIENCE

### 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*

### ENVT 250 - 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 AND MANAGEMENT

### ERID 102 - INTERMEDIATE EQUITATION I

This course is an introduction to intermediate skills in western and hunt seat equitation. It provides a reinforcement of western and hunt seat equitation for the rider with basic skills, a review of lunging, long lining, and driving following USEF and AQHA guidelines, and a continuation of the basics of grooming, tack, bits, and safety.

**Prerequisite:** Admission into the Equine Science and Management Degree Program, Requires permission of instructor or prior placement into course.  
*3 credits (1 lecture hour, 2 - 2 laboratory hours of riding - one western and one hunt 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 I

This course is an introduction to advanced skills in western and hunt seat equitation. It provides a reinforcement of basic intermediate western and hunt seat equitation for the rider with intermediate skills and includes a review of lunging, long lining, and driving following USEF and AQHA guidelines, and a continuation of grooming tack, bits, and safety skills.

**Prerequisite:** Admission into the Equine Science and Management Degree Program, Requires permission of instructor or prior placement into course.  
*3 credits (1 lecture hours, 2 - 2 laboratory hours of riding- one western and one hunt 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 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 an 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 techniques 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.

**Prerequisites:** ESCI 130 with a B- or better 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 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, ESCI 110 with a C or better or permission of instructor

*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 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 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), Spring Semester*

### **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 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 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 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)*

## 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 management, 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 management 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, TBA*

### 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, TBA*

## **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, TBA*

## **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, TBA*

## **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, TBA*

## **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 management, 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, 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, fall 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**

A course designed to provide lifelong skills that will enable students to become confident, independent library users and will enable them to use these same skills in locating and evaluating information outside of the library environment. Students will learn to search for information using both traditional print resources and innovative electronic sources such as the computerized catalog, CD-ROM indexes, on-line databases, and the Internet/World Wide Web.

*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 remaining 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' 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 socio-economic 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 251 - TOPICS IN 20TH CENTURY WORLD HISTORY**

An in-depth treatment of world history since 1914. Topics will include: the dynamic character of Western civilization and the West's impact on the world; world war, revolution, colonialism and anti-colonial reaction. Attention will focus on the post-World War II era involving the economic and political aspects of the "Cold War" and its aftermath. Attention also

will be given to dominant social, cultural, and technological characteristics of the twentieth century.

**Prerequisites:** 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 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 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:** any 100-level HIST course  
*3 credits (3 lecture hours) Offered every other spring*

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 in Latin America and the newly independent societies of Africa and Asia exploring the opportunities and problems the Cold War created for them.

**Prerequisite:** any 100-level HIST course  
*3 credits (3 lecture hours) Offered every other Spring*

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 week's 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 AND TURF MANAGEMENT**

This course addresses the principles and practices of landscape and turf installation, maintenance and management. The lectures focus on a wide range of topics such as the value of landscape management, the landscape industry, starting your own business, project site analysis, site preparation, landscape and turf installation, turf grass species, and landscape maintenance. Lab activities are organized around hands-on campus and community landscape projects that include planting, pruning, pest and weed control, fertilization, turf establishment or renovation.

*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 111 - 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 111 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 per credit), spring 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, types of fruits and vegetables, site selection, planting, fruit and vegetable quality factors, pests, 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. Emphasis will be on learning by doing.

*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**

Theoretical and technical practices in propagation of plants by sexual and asexual methods. Topics include division and separation, layering, grafting, budding, cuttings, micropropagation, and seed propagation.

*Pre-requisite: BIOL 102 or permission of instructor*

*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.

## **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 204 - HORTICULTURE BUSINESS MANAGEMENT**

This course will focus on establishing and operating a small horticultural business. Topics to be covered include, getting a business started, laws and legal issues, marketing and advertising, professional selling, buying, pricing, wholesale sales, retail sales, financing, and ownership. Individual special units will focus on

florist, nursery, greenhouse, and garden center issues. Students will be expected to participate in Horticulture Department entrepreneurial activities.

*3 credits (2 lecture hours, 2 laboratory 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 students crop and entrepreneurial responsibilities will also increase.

*2 credits (1 lecture hour, 2 laboratory hours), spring semester.*

## **HORT 211 - 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 211 is a sophomore-level course which continues to introduce students to the basics while adding advanced production skills and technology. The level of students' 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. Ecological, biological, and economic principles will be examined from each of the following disciplines: Entomology, nematology, plant pathology, and weed science. Reasons and principles for establishing pest management programs will be discussed.

*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 311 – 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 111, HORT 211, or permission of instructor  
*2 credits (2 lecture hours), spring semester*

### HORT 320 – HORTICULTURE INTERNSHIP ORIENTATION

Horticulture Internship Orientation prepares students for a horticulture industry internship and assist 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 410 – HORTICULTURE PRACTICES IV

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. Horticulture 410 students are expected to direct a wide range of activities performed by underclassmen in various horticultural disciplines. Advanced technology, skills, and responsibilities will be added with each semester and credit hour.

**Prerequisites:** HORT 110, HORT 210, HORT 310, or permission of instructor  
*2 credits (2 lecture hours), fall semester*

### HORT 411 – HORTICULTURE PRACTICES IV

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. Horticulture 411 students are expected to direct a wide range of activities performed by underclassmen in various horticultural disciplines. Advanced technology, skills, and responsibilities will be added with each semester and credit hour.

**Prerequisites:** HORT 111, HORT 211, HORT 311, or permission of instructor  
*2 credits (1 lecture hour or 2 laboratory hours), spring semester*

### 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:** HORT 320 or 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 internship 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 assignments, 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 AND 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

This course Examines ACUTE AND CHRONIC physiological ADAPTATIONS that occur as a result of SPORT AND EXERCISE training. Integrative approach linking basic theories of science with logical application of concepts to normal and ATHLETIC populations. ENERGY SYSTEMS, AND THE BODY'S, Cardiovascular and MUSCULOSKELETAL RESPONSE TO EXERCISE IS emphasized.

Prerequisite or Co-requisite: MAGN 101

4 credits (3 lecture hours and 3 laboratory hours per week), fall semester

### HPHP 201 – EXERCISE PHYSIOLOGY II

This course Examines ACUTE AND CHRONIC physiological ADAPTATIONS that occur as a result of SPORT AND EXERCISE training. Integrative approach linking basic theories of science with logical application of concepts to normal and ATHLETIC populations. Continuation of coursework covered in HPHP 200. Neurological, cardiovascular, respiratory response to exercise, as well as temperature and acid-base regulation during exercise is emphasized.

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

This course deals with the study of the musculoskeletal system and its application in gross human movement at the hip, knee, ankle, shoulder, elbow and trunk. Emphasis is placed on understanding the functional anatomy of the musculoskeletal and articular systems. Basic neuromuscular and biomechanical principles are introduced. Initial Laboratory exercises

concentrate on the assessment of muscular and joint function during isolated movement, and progress to assessment of gait and the complex motion of the student's choosing.

**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 promoting 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**

Appraisal of various fitness parameters including functional capacity, muscle strength and endurance, flexibility and body composition. Application of appraisals in the development of exercise programming. Methods of quantifying energy cost of exercise, basic electrocardiography, cardiovascular risk stratification and interpretation of vital signs emphasized as components of exercise programming.

**Prerequisite:** HPHP 201

*4 credits (3 lecture hours, 3 laboratory hours), spring semester*

### **HPHP 400 – APPLICATION OF STRENGTH AND CONDITIONING PRINCIPLES**

Provides students with the ability to develop and to implement sport-specific training programs, including periodization 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 education. Practical mastery is included.

**Prerequisite:** HPHP 201

*credits: 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 followed.

**Prerequisite:** HPHP 305

*credits: 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**

This course addresses appropriate considerations for populations that students will likely encounter in various clinical or training settings upon graduation. Etiology and progression of select diseases and debilitating conditions are outlined. Discussion examines how exercise can both reduce disease risk and attenuate disease progression. Diseases include diabetes, hypertension, metabolic syndrome, common cardiovascular diseases, peripheral artery disease, copd, cystic fibrosis, cancer, HIV/AIDS and arthritis.. Time permitting, special considerations required while working with children and the aged are also discussed.

**Prerequisite:** HPHP 305

*credits: 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

*credits: 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 variable 270 - 540 hours of work at chosen agency.

**Corequisite:** HPHP 400, HPHP 401, HPHP 403 and permission of faculty member

*Credits: 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 behavior, modalities of intervention, counseling skills, social policy, and professional ethics and standards.

*3 credits (3 lecture hours), fall or spring semester*

### **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 120 hours at a negotiated human service site and 16 hours in a structured classroom setting. 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 first-hand 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

*6 credits (A minimum of 200 hours in an internship setting plus 40 hours with the instructor, including all 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 instructor

*3 credits (3 lecture 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 reflected 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.

## 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, 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 - MESSAGE 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 Mathematics and Computer Science. 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 take the mathematics course you are placed at, or an appropriate mathematics course elective listed below to fill a math requirement.

### Mathematics Sequence

Algebra Sequence	Calculus Sequence
SKLS 091	MATH 147
MAGN 101	MATH 151 OR MATH 161
MATH 102	MATH 152 OR MATH 162
MATH 103	MATH 261
MATH 147	MATH 262

The above information contains the sequence of mathematics courses for The Department of Mathematics and Computer Science at Morrisville State College. This 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 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 123	Elementary Statistics
<b>Prerequisite:</b>	<b>MAGN 101 (C or better required) or placement into MATH 102</b>
MATH 141	Statistics
<b>Prerequisite:</b>	<b>MATH 102 (C or better required) or placement into MATH 103</b>
MATH 145	Discrete Mathematics
<b>Prerequisite:</b>	<b>MATH 102 (C or better required) or placement into MATH 103</b>
MATH 149	Elementary Linear Algebra
<b>Prerequisite:</b>	<b>MATH 103 (C or better required) or placement into MATH 147</b>

### 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 Mathematics and Computer Science, or any member of the department.

### Lowering placement after unsuccessful attempt

If a student begins a course but is not capable of finishing it because it is too

difficult, the student may meet with the department chair to determine if a lower mathematics placement is more appropriate for subsequent semesters.

### SUNY General Education

Students who successfully complete MATH 123 will fulfill the SUNY General Education requirement for Mathematics. Students who successfully complete MATH 102 or a mathematics course that has MATH 102 or greater as a prerequisite will fulfill the SUNY General Education requirement for Mathematics

### 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.

### 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 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

Topics include: 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 professions will be emphasized. Excel will be used for calculations and analysis. This course is appropriate for health care majors. 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 equivalent, or placement into math 102 or higher

*3 credits (3 lecture hours)*

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), spring 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 - ANALYTIC GEOMETRY AND CALCULUS I

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 indefinite 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 - ANALYTIC GEOMETRY AND CALCULUS II

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 - ENGINEERING CALCULUS I

Topics include: Review of algebra and analytic geometry; Concepts of limit and derivative of a function; Differentiation and integration of algebraic functions; Differentiation of trigonometric and logarithmic functions; Applications to engineering. (TI-83 plus or TI-84 plus required, TI-Nspire or similar calculator is not allowed.)

**Prerequisite:** Entrance requirements for Engineering Science  
*4 credits (5 lecture hours), fall semester*

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Mathematics

## MATH 162 - ENGINEERING CALCULUS II

Topics include: Derivatives and integrals of inverse trigonometric functions; Applications of integration and integration techniques; Infinite series; Parametric equations and polar coordinates; Applications to engineering. (TI-83 plus or TI-84 plus required, TI-Nspire or similar calculator is not allowed.)

**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 - ENGINEERING 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, TI-Nspire or similar calculator is not allowed.)

**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, TI-Nspire or similar calculator is not allowed.)

**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 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 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.

**Co-requisites:** MAGN 101, COMP 101

*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.

**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.

*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 geographic 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, 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 geographic 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, NATR 252, BIOL 235, 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 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 and GI/GU disturbances, and diabetes.

**Pre-requisite-** NURS 110 with a C+, **Co-requisite-** NURS 150

*1 credit (1 lecture hour), 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:** NURS150 (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 with a C+, **Co-requisite** NURS 210  
*1 credit (1 lecture hour), 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 (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, health care delivery models and trends, leadership management, ethics and self-care. Students practice skills for life-long learning by researching and presenting peer reviewed group projects.

**This course may be delivered in an on-line format.**

**Co-requisite:** NURS 250

*2 credits, spring or 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 with a C+

**Co-requisite:** NURS 250

*1 credit (1 lecture hour), fall and spring semesters*

### **NURS 256 - PHARMACOLOGY IN NURSING CARE**

This elective course presents concepts of the study of drugs used for the prevention, treatment, and diagnosis of disease and symptoms associated with 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, client education and evaluation of safe and effective drug therapy. Specific nursing responsibilities related to drug administration, including actual dosage calculations across the lifespan are emphasized.

**Pre-Requisites:** NURS 150 with a grade of a C+ or better

*2 credits (2 lecture hours), fall or spring*

## **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 credit (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 an acute 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 required.*

**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

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, eight 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, eight 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, eight 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, eight weeks*

## OFFT 116 MEDICAL KEYBOARDING

Full semester, 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, telephone 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 at Morrisville's campus 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 (3 lecture hours hours), spring semester*

## OFFT 130 - DATA ENTRY

Operating features of a microcomputer with practical business applications. Speed development of 10,000 keystrokes per hour.

*1 credit, four laboratory hours, fall semester, eight weeks*

## 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 one year of high school keyboarding or permission of instructor  
*2 credits, 2 lecture hours 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-9 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 Medical Terminology  
*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 Medical Terminology  
*2 credits (3 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 Medical Terminology  
*2 credit hours – 10 weeks (3 lecture 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. Administrative—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. Legal—Legal transcription, calendaring, law office files, client and financial records, legal documents, litigation, office management and professional ethics. Medical—Transcription of patient records, telephone procedures, appointments, office files, financial and banking records, computerized medical billing.

**Prerequisites:** OFFT 114, or OFFT 116; OFFT 120; OFFT 220  
*3 credits (3 lecture 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 of scheduling appointments. The procedures of banking and payroll are introduced as part of being an administrative medical assistant.

**Prerequisite:** OFFT 116 or permission of instructor  
*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 (3 lecture 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  
*3 credits (3 lecture 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 and spring semesters*

### 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:** OFFT majors only (including Medical Office Admin. AAS students); Office Technology sophomore student status and BSAD 140, OFFT 120, OFFT 220 (sophomore student status)  
*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 and OFFT 250 Medical Terminology, or permission of the instructor

*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), fall or spring semester*

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science

### 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), spring semester*

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science

### PHYS 127 - GENERAL PHYSICS I

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*

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science

### PHYS 128 - GENERAL PHYSICS II

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*

This course satisfies the Liberal Arts and Sciences requirement and the SUNY General Education Requirement for Natural Science

### PHYS 157 - UNIVERSITY PHYSICS I (MECHANICS)

A calculus-based introduction to mechanics, this course emphasizes the study of motion of particles and of the forces responsible for such motion. Topics include dimensional analysis, vector analysis, rectilinear motion and motion in two and three dimensions, Newton's Law of Motion, universal

gravitation, and simple harmonic motion.

**Pre- or Co-requisite:** MATH 161 or equivalent

*4 credits (3 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

### **PHYS 267 - UNIVERSITY PHYSICS III (SOUND AND THERMODYNAMICS)**

This course covers work and energy, impulse and momentum, rotational dynamics, elasticity and fluid mechanics, wave motion and selected topics in thermodynamics.

**Prerequisite:** PHYS 158

**Pre- or Co-requisite:** MATH 261

*4 credits (3 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

### **PHYS 158 - UNIVERSITY PHYSICS II (ELECTRICITY AND MAGNETISM)**

Theoretical basis of electricity and magnetism with applications to circuits and electrical instruments. Coulomb's law, the electric field, potential, Gauss' law, electromotive force, capacitance, Kirchhoff's laws, the magnetic field, Ampere's law, induced fields, magnetic properties of matter, mutual and self-inductance, AC circuits. Finishes with an overview of Maxwell's equations and electromagnetic waves.

**Prerequisite:** PHYS 157

**Pre- or Co-requisite:** MATH 162

*4 credits (3 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

### **PHYS 268 - UNIVERSITY PHYSICS IV (OPTICS AND MODERN PHYSICS)**

Optics, including the nature and propagation of electromagnetic waves, Huygen's principle, reflection, refraction, interference, diffraction and polarization. Topics from modern physics include special relativity, the wave-particle duality, atomic structure, the Bohr model, energy levels, spectra, elementary quantum mechanics, structure of the nucleus, radioactivity, nuclear reactions and reactors, and elementary particles.

**Prerequisite:** PHYS 158

**Pre- or Co-requisite:** MATH 262

*4 credits (3 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

## **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, interpersonal 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 (PSYC36) 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 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 socioeconomic renewable energy issues, and career opportunities in the field of renewable energy.

*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.

**Prerequisite:** MATH 102, RENG 102

*1 credit (1 lecture and 1 hr. recitation weekly), spring semester*

### RENG 210 – BIOMASS ENERGY RESOURCES

This course provides the student 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 and MATH 102 or permission of instructor.

*3 credits (2 lecture hours, 3 lab hours), fall semester*

### RENG 220 – WIND AND HYDRO ENERGY SYSTEMS

This course provides the student with a fundamental understanding of wind and hydroelectric energy systems and the potential to generate electricity in both grid-tied and off-grid integrated applications. An introduction to fluid dynamics, measuring and mapping wind and water resources, and on-site assessments will also be given. The course focuses on small- and medium-sized wind machines, generators, alternators, and electricity, including technical aspects of micro hydroelectric power generation for hybrid wind and hydro energy systems.

**Prerequisite:** MATH 102, PHYS 107

*3 credits (2 lecture hours, 3 laboratory hours), 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 230 – SOLAR AND GEOTHERMAL ENERGY SYSTEMS

This course provides the student with a technical overview of the components of solar thermal and geothermal heating systems as well as solar photovoltaic electrical systems. Students will learn fundamentals of solar insolation and the impacts of seasonality, aspect, and latitude on solar resources. The course focuses on components and design of solar photovoltaic electricity generation and storage in both grid-tied and off-grid systems. Students will also learn the fundamentals of hot water systems, including solar thermal space heating and geothermal systems, including heat pumps. Combining solar thermal and geothermal energy systems will provide students with experience in hybrid renewable energy systems.

**Prerequisites:** MATH 102, PHYS 107

*3 credits (2 lecture hours, 3 laboratory hours), fall 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 305 - RENEWABLE ENERGY SYSTEMS

This course provides students with the basic understanding of renewable energy systems and their potential use for power generation, including electricity. Focus is on providing the student with an introduction to typical energy consumption patterns along with key concepts, terminology, and nomenclature common to all energy systems. The focus will then shift to utilizing solar, wind, hydro, biomass, geothermal, and hydrogen fuel cells as renewable energy systems for a sustainable future.

**Prerequisites:** minimum of MATH 102 or equivalent: (junior standing or permission of the instructor)

*3 credits (2 lecture hours, 2 laboratory hours), fall semester*

### 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 210/310 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 210 or RENG 310

*3 credits (2 hours of lecture and 3 hours of laboratory), spring semester*

### RENG 320 – WIND AND HYDRO ENERGY SYSTEMS

This course provides the student with a fundamental understanding of residential wind and hydroelectric energy systems and the potential to generate electricity in both grid-tied and off-grid integrated applications. Initial focus is on providing the student with a review of fluid dynamics, measuring and mapping wind and water resources, and on-site assessments. The focus will then shift to residential and farm-scale wind machines, generators, alternators and electricity. Students will then begin with technical and sociopolitical aspects of micro hydroelectric power generation as renewable energy systems.

**Prerequisites:** PHYS 107, MATH 102, or permission by instructor.

*3 credits (2 lecture hours and 3 lab hours), 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 330 – SOLAR AND GEOTHERMAL ENERGY SYSTEMS

This course provides the student with a technical overview of the components of solar thermal and geothermal heating systems as well as solar photovoltaic electrical systems. Students will learn fundamentals of solar irradiance, insolation and the impacts of seasonality, aspect, and latitude on solar resources. Students will begin with components and design of solar photovoltaic electricity generation and storage in both grid-tied and off-grid systems. The course then focuses on the fundamentals of solar thermal systems, including solar thermal domestic hot water, solar space heating and geothermal heat pumps. Pairing solar thermal and geothermal energy systems will provide the students with experience in hybrid renewable energy systems.

**Prerequisites:** MATH 102, PHYS 107, or permission by the instructor.

*3 credits (2 lecture hours and 3 lab hours), spring semester*

### 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 210 or 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., liquefaction, 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 210 or 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 interactions 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 220 or RENG 320

*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 230 or RENG 330

*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 instructor.  
*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.

**Prerequisites:** 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; geospatial 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 statues 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 of Technology status or permission of instructor  
*3 credits (3 lecture hours) spring semester*

### RREN 312 – AQUATIC FIELD 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), fall semester*

### RREN 412 - ECOSYSTEM IMPACT 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 with a B or better and approval of instructor  
*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 it's 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 AND 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 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 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 - RESORT AND RECREATION INTERNSHIP ORIENTATION

The focus of this course will be on preparation for the internship including identification of preferred work sites, the application process, facility orientation, work place competencies and objectives of the internship.

**Prerequisites:** FSAD 257, B.B.A. Resort and Recreation Service major, senior status  
*1 credit, (1 lecture hour), fall semester/spring semester*

### 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 462 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; globalization 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 resources.**

**Prerequisite:** Grade of "C" or better in Social Problems in the Twenty-First Century (SOCI 201) 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.

### 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.

## 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 coordinate 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 AND 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*

## **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**

### **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

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John L. Murad, Jr. .... Jamesville

Thomas D. Mastro . .... Binghamton

Linda S. Sanford..... Somers

Richard Socarides ..... NYC

Carl Spielvogel ..... NYC

Cary F. Staller..... Old Field

## THE STATE UNIVERSITY OF NEW YORK SENIOR ADMINISTRATION

Chancellor – Nancy L. Zimpher

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Elizabeth L. Bringsjord

Senior Vice Chancellor for Community Colleges and the Education Pipeline – Johanna Duncan-Poitier

Vice Chancellor for Legal Affairs & General Counsel – Joseph B. Porter

General Counsel-in-Charge – Sandra Casey

Associate Vice Chancellor for Enrollment Management and Student Success – Paul Marthers

Executive Director of Government Relations & Policy – Jessica Todtman

Secretary of the University – Joel Pierre-Louis

Vice Chancellor for Capital Facilities & General Manager of the Construction Fund – Robert Haelen

Associate Vice Chancellor for University Relations and Chief of Staff – Stacey Hengsterman

Vice Chancellor for Finance & Chief Financial Officer – Eileen McLoughlin

Provost & Executive Vice Chancellor and Interim President Research Foundation – Alexander Cartwright

Assistant Vice Chancellor for External Affairs & Alumni Relations – Jennifer LoTurco

### Senior Staff:

Assistant Vice Chancellor for Global Affairs – Sally Crimmins Villela

Vice Chancellor for Human Resources – Curtis L. Lloyd

Senior Associate Vice Chancellor & Vice Provost for Academic Affairs – Jason Lane

Chief Diversity Officer & Senior Associate Vice Chancellor for Diversity, Equity and Inclusion – Carlos Medina

## MORRISVILLE STATE COLLEGE COUNCIL

### Member

Kristi Andersen (Chair)  
11 Rippleton Road  
Cazenovia, NY 13035

Arnold R. Fisher (Vice Chair)  
P.O. Box 57  
Hamilton, NY 13346

Hugh R. Riehlman  
5668 U.S. Route 11  
Homer, NY 13077

Lawrence J. Baker  
33 Eaton Street  
Hamilton, NY 13346

Steven R. Jones  
5496 Hart Road  
Morrisville, NY 13408

Judith Gibson Noyes  
4230 Rte. 46  
Munnsville, NY 13409

Michael P. Oot  
Tiller Road  
Munnsville, NY 13409

Allen Riley  
831 Brian/Musician Road  
Earlville, NY 13332

# Faculty/Staff Directory

## Administration

\* These staff members also teach at the Norwich campus.

‡ These staff members work at the Norwich campus.

Dacia L. Banks, 2007

*Director of Financial Aid  
Cazenovia College, B.S.*

Elizabeth Berry, 2013

*Assistant Director of Financial Aid  
SUNY Institute of Technology at Utica/Rome, B.S.  
Morrisville State College, A.S.*

Joseph H. Bularzik, 2014

*Dean, School of Science, Technology and Health Studies  
University of California, Berkeley; Ph.D.  
Arizona State University, B.S.*

Mary Ellen Burdick, 1989

*Vice President for Administration  
SUNY Institute of Technology at Utica/Rome, B.S., M.S.  
Morrisville State College, A.A.S.*

Steven L. Campbell, 2015

*Instructional Support Assistant, Equine Racing and Rehabilitation  
Morrisville State College, A.A.S.*

Michael A. Cappeto, 2015

*Interim Provost  
Virginia Polytechnic Institute and State University, Ed.D., M.S.  
James Madison University, M.S., B.A.*

Mary C. Carbery, 2015

*Human Resource Assistant  
State University of New York at 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  
Morrisville State College, A.A.S.*

Raul Chacon, 2013

*Web Developer and Designer  
Syracuse University, M.S.  
California State University B.S.*

Kenneth P. Chapman, 2015

*Admissions Marketing Assistant  
SUNY Oswego, B.A.*

Marsha L. Cornelius, 1993

*Academic Advisor  
University of Phoenix, Ed.D.  
SUNY at Binghamton, B.S., M.A.S.S.  
Morrisville State College, A.A.S.  
State University of New York Chancellor Award, 2007*

Susan Cornelius, 2014

*Staff Accountant  
Messiah College, B.S.  
Mohawk Valley Community College, A.S.*

Warren D. Costantine, 1996

*Print Shop Supervisor*

Megan Croft, 2015

*Admissions Recruiter  
Clarkson University, M.B.A.  
SUNY Potsdam, B.S.*

Leslie V. Crosley, 2012

*Assistant Vice President for Enrollment Management  
SUNY Institute of Technology at Utica/Rome, M.S.  
Bloomsburg University, B.A.*

Enrico L. D'Alessandro, 2001

*Chief, University Police  
Marist College, M.P.A.  
SUNY Institute of Technology at Utica/Rome, B.A.  
Mohawk Valley Community College, A.A.S.*

Patricia M. Davis ‡, 1999

*Senior Staff Assistant  
SUNY Institute of Technology at Utica/Rome, B.B.A., M.S.  
Morrisville State College, A.A.S.*

Jeannette H. Evans, 1995

*Dean, School of General Studies  
Syracuse University, M.B.A., M.S.  
George Washington University, B.A.*

Craig M. Fisher, 2012

*Environmental Health and Safety Officer  
SUNY Empire State College, B.S.  
Morrisville State College, A.A.S.*

Heather M. Frost, 2014

*Instructional Support Assistant, Dairy  
Morrisville State College, A.S., B.S.*

Kathryn A. Galyon, 2015

*Instructional Support Assistant, Equine Rehabilitation  
Morrisville State College, A.A.S., B.T.*

Kelly E. Gardner-Williamson, 2010

*Coordinator of Public Relations and Alumni Communications  
SUNY at Oswego, B.A.  
Morrisville State College, A.A.S.*

Marion E. Gaslin, 2004

*Bursar, Student Accounts  
SUNY Institute of Technology at Utica/Rome, B.B.A, M.S.  
Morrisville State College, A.A.S.*

Rhett M. Genung, ‡ 2008

*Educational Advocate, Liberty Partnership  
Full Sail Center for the Recording Arts, A.S.*

JoAnn Godfrey, 1968

*Executive Assistant to the President*

Lisa A. Godfrey, 2005

*Admissions Advisor  
Cazenovia College, B.A.*

- Lindsey M. Graham, 2007  
*Assistant Director of Admissions*  
*SUNY at Binghamton, B.S., M.A.*  
*Morrisville State College, A.A.S.*
- Paul F. Griffin, 1999  
*Dean, School of Liberal Arts/Associate Provost*  
*University of Wisconsin - Madison, Ph.D.*  
*College of Holy Cross, B.A.*
- Mark P. Grisi, 2014  
*Director of Facilities*  
*Goucher College, MA*  
*Drexel University, BS*  
*Bucks County Community College, A.A.*
- Jennifer Hilts, 2014  
*Purchasing Agent*  
*Morrisville State College, A.A.S.*  
*SUNY Institute of Technology at Utica/Rome, B.S.*
- Lisa A. Iannello, 2013  
*Sr. Staff Assistant, Institutional Advancement*  
*Rochester Institute of Technology, B.F.A.*
- Geoffrey S. Isabelle, 1994  
*Dean of Students*  
*SUNY at Albany, M.S.*  
*SUNY at Oswego, B.A.*  
*Morrisville State College, A.A.S.*
- Paul M. Kearney, 2012  
*Graphic Designer*  
*SUNY at Fredonia, B.A.*  
*Mohawk Valley Community College, A.A.S.*
- Kyle Ladd, 2014  
*Web Developer and Designer*  
*Morrisville State College, B.Tech*
- Joseph R. Lansing, 2012  
*Facilities Support Manager*  
*SUNY at Cortland, B.A.*
- Pamela A. Locke, 2007  
*Accounting and Budget Coordinator*  
*Le Moyne College, B.S.*
- Erin R. Longo, 2010  
*Admissions Assistant*  
*Cazenovia College, B.P.S.*
- David J. Mancini, 2008  
*Construction Site Representative*  
*Utica College of Syracuse University, B.S.*  
*Mohawk Valley Community College, A.A.S.*
- Elizabeth Marcellus, 2015  
*Library Circulation Coordinator*  
*SUNY University at Buffalo, B.A.*  
*Onondaga community College, A.A.*
- Christopher L. Nyberg, 1997  
*Dean, School of Agriculture, Sustainability,*  
*Business, and Entrepreneurship*  
*Texas A & M University, Ph.D.*  
*University of Wisconsin-River Falls, B.S.*
- Suzanne O'Dell, 2014  
*Assistant College Registrar*  
*State University of New York at Potsdam, B.A.*
- Matthew R. Polack, 2012  
*Admissions Assistant*  
*Morrisville State College, B.Tech*
- Charles F. Pronto, 2005  
*Trades Group Supervisor, Physical Plant*  
*SUNY Institute of Technology at Utica/Rome, B.Tech.*  
*Mohawk Valley Community College, A.A.S.*
- Julia Rizzo, 2014  
*Academic Advisor (Campus-wide Advisor)*  
*Indiana University, M.A.*  
*Cornell University, B.S.*
- David E. Rogers, 1999  
*President*  
*Cornell University, M.S., Ph.D.*  
*University of Massachusetts, B.A.*
- Toyia L. Sims, 2010  
*Human Resource Associate*  
*Columbia College, B.A.*
- Kim S. Smith, 2006  
*Associate Dean, Nursing*  
*SUNY Institute of Technology at Utica/Rome, M.S.*  
*Keuka College, B.S.*  
*Morrisville State College, A.A.S.*
- Jessica L. Solomon, ‡ 2012  
*Academic Advisor, Norwich Campus*  
*North Carolina Central University, M.A.*  
*Ithaca College, B.S.*
- Robert C. Solomon, \*‡ 2013  
*Educational Advocate, Liberty Partnership*  
*North Carolina Central University, M.A.*  
*University of North Caroline Chapel Hill, B.A.*
- Sarah G. Steele, 2013  
*Director of Human Resources, Affirmative Action/Title IX Coordinator*  
*Cornell University, School of Industrial and Labor Relations, B.S.*  
*Certified Employee Benefits Specialist*
- Aryn A. Tassone, 2014  
*Development and Alumni Assistant*  
*State University of New York at Plattsburgh, B.S.*  
*State University of New York at Cobleskill, A.A.S.*
- Brian S. Tefft, ‡ 2005  
*Computer Services Technician/Library Assistant*  
*Morrisville State College, A.A.S.*  
*State University of New York Chancellor's Award 2015*
- Franci R. Valenzano, 1998  
*Public Relations Associate*  
*Utica College of Syracuse University, B.A.*  
*Morrisville State College, A.A.S.*
- Brian A. Wallenhorst, 2012  
*Admissions Assistant*  
*SUNY at Delhi, B.B.A.*

Melissa J. Ward, 2007

*Assistant Director for Enrollment Marketing  
Stony Brook, MS  
SUNY at Oswego, B.A.  
Morrisville State College, A.A.S.*

Torin J. Washington, 2012

*Director of Annual Giving  
Ithaca College, B.A.*

Marian D. Whitney, 1994

*Assistant to the Provost for Institutional Research and Effectiveness  
Keuka College, M.S.  
University of Missouri, B.S.Ed.*

Shannon L. Wiley, 2015

*Assistant to the Dean of Students  
Morrisville State College, A.S., B.S.*

Stacy L. Wilcox, ‡ 2009

*Educational Advocate, Liberty Partnership  
Cazenovia College, B.S.*

Jason P. Zbock, ‡ 2014

*Executive Director, Norwich Campus  
State University of New York at Buffalo, B.A., M.Ed.*

## Morrisville Auxiliary Corporation

Joanna Baker, 2005

*Director of Housing and Sustainability  
SUNY Plattsburgh, BS*

Kristi A. Cranwell, 2014

*Director of Nelson Farms  
University of Nebraska, M.S.  
Kansas State University, B.S.*

Christina Gardner, 2013

*Controllor  
York Technical College, AAS*

Glenn Gaslin, 1993

*General Manager  
Webster University, B.S., M.A.*

Diana S. Johnson, 1984

*Director of Dining Services  
Morrisville State College, A.A.S.*

Thomas C. King, 1982

*Director of Campus Stores  
SUNY at Brockport, B.A.  
Morrisville State College, A.A.S.*

Robert D. Klish, 1991

*Director of Computer Services  
Rochester Institute of Technology, B.A.  
Morrisville State College, A.A.S.*

James J. McFadden, 1976

*Director of Facilities Maintenance  
Director of Iceplex  
Morrisville State College, A.A.S.*

Stanley E. Smith, 1987

*Executive Director of Agri-Business and LLC's  
Morrisville State College, A.A.S.*

Jennifer S. Stowell, 2011

*Director of Human Resources  
Morrisville State College, A.A.S.*

## Athletics

Allison Beardsley, 2015

*Coach, Field Hockey  
University of Rochester, B.A.*

Bradley J. Becker, 2007

*Assistant Athletic Trainer  
Canisius College, B.S.*

Gregory M. Carroll, 2001

*Director of Athletics  
Syracuse University, M.S.  
St. Bonaventure University, B.A.*

Thomas B. Dickinson, 1997

*Equipment Manager  
Denison University, B.A.  
SUNY at Cortland, B.S.*

Jordan Farrar, 2014

*Assistant Athletic Trainer  
The SUNY College at Brockport, B.S.*

Kyle J. Graves, 2009

*Coach, Men's Soccer  
SUNY Brockport, M.S.  
Keuka College, B.S.*

Justin M. Higgins, 2013

*Assistant Coach, Football  
Kean University, M.A.  
Ithaca College, B.A.*

Curtis M. Fitzpatrick, 2013

*Coach, Football  
Ohio University, M.A.  
St John Fisher College, B.S.*

Todd E. Kleinhans, 2007

*Athletic Trainer  
Elmira College, B.A.*

Kevin J. Krogol, 2013

*Coach, Men's Ice Hockey and Golf  
Utica College, B.S.*

Melissa Lomanto, 2014

*Coach, Women's Ice Hockey  
Utica College, B.A.*

Jason B. Longo, 2009

*Coach, Men's Lacrosse  
Le Moyne College, B.S.*

Chris G. Perkins, 2007

*Coach, Women's Soccer/Director for Intramurals  
SUNY at Cortland, B.S.*

Derek W. Powers, 1997  
*Coach, Cross Country*  
*Morrisville State College, A.S.*

Patrick Rotchford, 2014  
*Assistant Coach, Football*  
*St. Ambrose University, M.S.*  
*St. John Fisher College, B.S.*

Kelsey Schwan, 2014  
*Coach, Women's Lacrosse*  
*SUNY Cortland, M.S.*  
*Blomsburg University, B.S.*

Erin Skaradek, 2015  
*Coach, Women's Basketball*  
*Elmira College, B.S.*

Joseph A. Smith, 2009  
*Coach, Men's Basketball*  
*Hamilton College, B.A.*

Brittany Stroop, 2015  
*Coach, Softball*  
*Mount Vernon Nazarene University, B.S., M.S.*

Brandy L. Thurston, 2001  
*Assistant Athletic Director/Sports Information Director*  
*SUNY Cortland, M.S.*  
*Le Moyne College, B.S.*  
*Morrisville State College, A.S.*

Frederick R. Wallace, 2012  
*Coach, Volleyball*  
*SUNY Brockport, M.S., B.S.*

## Student Services

Marc R. Cianciola, 2013  
*Assistant Director of Student Activities*  
*Kaplan University, M.A.*  
*SUNY Potsdam, B.A.*

Rita D. Goyette, 1998  
*Director of Student Activities*  
*Indiana University of Pennsylvania, M.A.*  
*Lyndon State College, B.S.*

Ursula M. Herz, 2009  
*Director of Residence Life*  
*The Catholic University of America, M.A.*  
*St. Bonaventure University, B.A.*

Albert R. Maya, Jr., 2014  
*Residence Hall Director*  
*Indiana University of Pennsylvania, M.A.*  
*Rutgers, The State University of New Jersey, B.A.*  
*Gloucester County Community College, A.A.*

Shawna N. Mott, 2013  
*Assistant Director of Residence Life*  
*SUNY at Albany, M.S.*  
*SUNY at Oneonta, B.A.*

Chris A. Perry, Jr., 2014  
*Residence Hall Director*  
*Central Connecticut State University, M.S.*  
*University of Hartford, B.A., B.S.*

Sarah Piejko, 2015  
*Residence Hall Director*  
*Indiana University of Pennsylvania, M.A.*  
*Rochester Institute of Technology, B.S.*  
*Mohawk Valley Community College, A.S.*

## Career Development

Barbara A. Roback, 2013  
*Career Development and Planning Officer*  
*University of South Carolina, M.S.*  
*University of Albany, B.A.*

## Student Academic Support Academic Support Center

Timothy S. Barth, 2015  
*Academic Support Advisor*  
*St. John Fisher College, B.A.*  
*Morrisville State College, A.A.*

Stephanie L. Lawhorne, 2001  
*Director of Reading & Study Skills Center*  
*Radford University, M.A.*  
*Queens University of Charlotte, B.A.*

David A. Symonds,\* 1996  
*Director of Disability 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*

## Educational Opportunity Program

Lakeisha Armstrong, 2014  
*EOP Counselor*  
*Siena College, B.A.*

Marquis L. Bennett, 2015  
*Director of EOP and Special Programs*  
*Rowan University, B.A., M.A.*

Owen D. Corpin, 2001  
*EOP Advisor*  
*Central Michigan University, M.S.*  
*U.S. Naval Academy, B.S.*

## College Science/Technology Entry Program (CSTEP)

Jimsek Daoreuang, 2013  
*Assistant Director, CSTEP*  
*Syracuse University, M.S.*  
*SUNY Oswego, B.S.*

Jeriluanne O'Bryan-Losee, 1998  
*Director of CSTEP/STEP*  
*Elmira College, M.S. Ed., M.S.A. Ed.*  
*SUNY at Binghamton, B.S., M.A.S.S.*  
*Corning Community College, A.S.*  
*Morrisville State College, A.A.*  
*State University of New York Chancellor's Award, 2011*

David Stablein, 2013  
*Assistant Director, STEP*  
*Syracuse University, B.A.*

## Technology Services

Matthew J. Barber, 2007  
*Network and Systems Manager*  
*Morrisville State College, B.Tech*

Mary F. Buck, 1980  
*CyberLab Manager/Operations*  
*Morrisville State College, A.A.S.*

Kyle A. Campanaro, 1997  
*Server and System Support Specialist*  
*Mohawk Valley Community College, A.A.S.*

Brandon J. Croll, 2010  
*Technology Services Support Assistant*  
*Morrisville State College, A.A.S., B.S.*

Brent J. Farrell, 2006  
*Programmer Analyst*  
*Clarkson University, B.S.*

Robert A. Gadreau, 2011  
*Network Administrator*  
*Morrisville State College, B.Tech.*

Jeffrey L. Gay, 1986  
*Assistant Director of Technology Services*  
*SUNY at Potsdam, B.A.*  
*State University of New York Chancellor's Award, 2004*

Jonathan D. Godfrey, 2000  
*PC Support*  
*Morrisville State College, A.A.S.*

Michael Godfrey, 2014  
*Instructional Support Associate*  
*University at Buffalo, M.U.P*  
*Rochester Institute of Technology, B.S.*  
*Morrisville State College, A.S.*

Ginger A. MacRae, 1998  
*Help Desk Coordinator*  
*Morrisville State College, A.S.*

Timothy M. Matthews, 1997  
*Instructional Support Specialist*  
*Utica College of Syracuse University, B.A.*

Adara C. Wilczak, 2014  
*Programmer/Analyst*  
*SUNY Institute of Technology at Utica/Rome, B.S.*  
*Rochester Institute of Technology, B.S.*

Kathleen M. Williams, 1985  
*Lead Programmer Analyst*  
*SUNY at Cobleskill, A.A.S.*

## Health Services

Mary V. Greenwood, 2001  
*Licensed Practical Nurse*  
*BOCES*

Sara A. Mansfield, 2006  
*Counselor*  
*SUNY at Oswego, M.S., C.A.S.*  
*Alfred University, B.S.*  
*State University of New York Chancellor's Award 2013*

Christine Merritt, 2011  
*Nurse Practitioner*  
*SUNY Upstate Medical University, N.P.*  
*Morrisville State College, A.A.S.*

Patricia A. Samson, 2006  
*Counselor*  
*SUNY at Oswego, B.A., M.S.*

Phyllis D. Winans, 2007  
*Licensed Practical Nurse*  
*BOCES*

Nancy S. Zlomek, 2011  
*Director of Student Health & Counseling Center*  
*SUNY at Binghamton, M.S.N., F.N.P*  
*SUNY Institute of Technology at Utica/Rome, B.S.N.*  
*Utica Psychiatric Center School of Nursing, R.N.*

A college physician is available through a contractual arrangement on an on-call basis.

## FACULTY DIRECTORY

\* 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, Ph.D., M.S..*  
*University of Maine, B.S.*

Daniel P. Akers, 2007  
*Instructor, Automotive Technology*  
*Morrisville State College, A.A.S.*

Ronald F. Alexander, 2006  
*Assistant Professor, Automotive Technology*  
*SUNY at Oswego, M.S., B.S.*  
*Morrisville State College, A.A.S.*

Steven J. Armstrong, 2013  
*Assistant Professor, Criminal Justice*  
*Marist College, M.P.A.*  
*Excelsior College, B.S.*

Clare E. Armstrong-Seward,\* 2003  
*Associate Professor, Criminal Justice*  
*California Coast University, D.B.A.*  
*SUNY at Binghamton, M.A.*  
*SUNY at New Paltz, B.S.*  
*Dutchess Community College, A.A.S.*  
*State University of New York Chancellor's Award 2013*

Charles J. Ax III, 2010  
*Assistant Professor, Agricultural Engineering/Diesel Technology*  
*SUNY at Potsdam, M.S.*  
*Pennsylvania State University, B.S.*  
*Morrisville State College, A.A.S.*

- Frederick W. Bach, 1981  
*Professor, Agricultural Engineering  
 Cornell University, B.S., M.P.S.  
 Morrisville State College, A.A.S.  
 Morrisville State College Distinguished Faculty Award, 2007*
- Benjamin D. Ballard, 2007  
*Assistant 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  
*Assistant Professor, Food Service Administration  
 Rochester Institute of Technology, M.S.  
 Syracuse University, B.S.  
 Certified Executive Chef  
 Certified Food Executive  
 Morrisville State College 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  
*Assistant Professor, Mathematics  
 SUNY at Oswego, B.S., M.S.*
- Mark D. Blakeslee, 2013  
*Assistant Professor, Criminal Justice  
 University of Albany, M.A.  
 Binghamton University, B.S., M.A.  
 Broome Community College, A.A.S.*
- Silvia Bliss, 2009  
*Assistant Professor, Humanities  
 Syracuse University, M.A.  
 Catholic University of Peru, B.A.*
- Shawn E. Bossard, 2010  
*Dairy Farm Manager  
 SUNY at Oswego, M.B.A.  
 Cornell University, B.S.  
 Morrisville State College, A.A.S.*
- 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  
*Assistant Professor, Humanities  
 SUNY at Binghamton, M.A., Ph.D.  
 SUNY at Potsdam, B.A.  
 Monroe Community College, A.A.*
- Eric M. Bremiller, 2015  
*Instructional Support Assistant, Horticulture and Environmental Science  
 Morrisville State College, B.S.  
 Mohawk Valley Community College, A.S.*
- Birgit A. Bryant, 2012  
*Assistant 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 C. Burton, 2015  
*Assistant Professor, Social Science  
 SUNY at Albany, M.S.W., Ph.D.  
 Syracuse University, B.S., M.S.*
- Susan E. Caraher, 1989  
*Assistant Professor, Nursing  
 SUNY at Binghamton, M.S.  
 SUNY Institute of Technology at Utica/Rome, 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.*
- Sarah J. Carl, 2012  
*Lecturer, School of Science & Technology  
 SUNY at Binghamton, B.A.*
- Seth A. Carsten, 2005  
*Instructional Support Assistant, Environmental Sciences  
 Morrisville State College, A.A.S.*
- William A. Cesare, Jr., 2015  
*Assistant Professor, Liberal Arts  
 University of Sarasota, Edd  
 State University of New York at Oswego, M.S.  
 University of Syracuse, B.A.*
- Roberta A. Chapin, 2005  
*Instructional Support Assistant, Nursing  
 SUNY Institute of Technology at Utica/Rome, M.S.  
 Keuka College, B.S.  
 Morrisville State College, AAS*
- Merrill B. Charles, 2013  
*Assistant Professor, Journalism  
 Syracuse University, M.S., B.S.*
- Matthew Civiletti, 2014  
*Assistant Professor, Physics  
 University of Delaware, Ph.D.  
 The College of New Jersey, B.A.*
- Gladys L. Cleland, 1996  
*Associate Professor, Journalism  
 Syracuse University, M.S.  
 University of Florida, M.A.  
 SUNY at Plattsburgh, B.A.  
 State University of New York Chancellor's Award, 2006*

- Keith A. Cluff, 2003  
*Instructional Support Associate, (Racing) Equine*  
*Beals Business College, A.S.*
- Brenda S. Coogan, 1997  
*Travel Agent*  
*Southeastern Academy Travel Certification*
- James T. Costello, 2008  
*Lecturer, Wood Products Technology*  
*Mohawk Valley Community College, A.S.*  
*Morrisville State College, A.S.*
- Clyde D. Cranwell, 2006  
*Associate Professor, Equine*  
*Kansas State University, Ph.D.*  
*University of Wyoming, M.S.*  
*Oklahoma Panhandle State University, B.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*  
*Morrisville State College Distinguished Faculty Award, 1990*
- Patrick J. Cronn, 2003  
*Associate Professor, Computer Information Technology*  
*SUNY Institute of Technology at Utica/Rome, M.S.*  
*Rochester Institute of Technology, B.S.*  
*Morrisville State College, A.A.S.*
- Robert R. Cross III, 2002  
*Assistant Professor, Diesel/Agricultural Engineering*  
*Cornell University, M.A.T.*  
*SUNY at Cobleskill, B.Tech.*  
*SUNY at Fredonia, B.A.*
- Angela Cwikla, 2013  
*Instructor, Massage Therapy*  
*State University of New York at Oswego, B.S., B.A.*  
*Morrisville State College, A.A.S.*
- 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.*
- Eric H. Diefenbacher,‡ 2014  
*Assistant Professor, Biology*  
*Marshall University, M.S.*  
*Hartwick College, B.A.*
- Ryan G. Diehl, 2005  
*Instructional Support Associate, Environmental Sciences*  
*SUNY at Cobleskill, B.Tech.*
- Melinda E. Doyle, 2008  
*Assistant Professor, Office Technology*  
*Syracuse University, M.B.A.*  
*SUNY at Oneonta, B.S.*  
*SUNY at Cobleskill, A.S.*
- Robert A. Dushay, 2001  
*Professor, Social Science*  
*Columbia University, M.A., M.S., Ph.D.*  
*Cornell University, A.B.*  
*Morrisville State College Distinguished Faculty Award, 2009*
- Jennifer Eddy, 2012  
*Assistant Professor, Mathematics*  
*University of Phoenix, M.A.*  
*Utica College, B.A.*
- Aron J. Efimenko, 2007  
*Associate Professor, Humanities*  
*Southern Illinois University, M.F.A.*  
*SUNY at Brockport, B.S.*  
*Tompkins Cortland Community College, A.A.*
- Lisa L. Eklund, 1998  
*Assistant Professor, Equine Studies*  
*Edinboro University, M.A.*  
*SUNY at Oneonta, B.A.*
- Erin E. Eldredge, 2004  
*Assistant Professor, Equine Science*  
*SUNY at Oswego, M.S.*  
*Morrisville State College, B.Tech., A.A.S.*
- Patricia L. Elko, 1985  
*Professor, Mathematics*  
*Syracuse University, M.S.*  
*SUNY at Albany, B.S.*  
*Who's Who Among America's Teachers, 1999, 2002*  
*NISOD Award for Excellence in Teaching, 1993*
- John D. Felton, 2009  
*Assistant Professor, Hospitality*  
*Johnson & Wales University, M.B.A.*  
*SUNY at Plattsburgh, B.S.*  
*The Culinary Institute of America, A.O.S.*
- Diana Fitzgerald, 2015  
*Assistant Professor, Nursing*  
*SUNY Stony Brook, M.S.*  
*SUNY Upstate Medical University, B.S.*  
*Saint Joseph's Hospital of Nursing, A.S.*
- Jared Ford, 2014  
*Instructional Support Assistant, Agricultural Engineering*  
*SUNY Cobleskill, B.S.*  
*Morrisville State College, A.A.S.*
- Mario Freamat, 2014  
*Assistant Professor, Physics*  
*University of Kentucky, M.S., Ph.D.*  
*University of Buhaarest, B.S.*
- Victoria T. Fry,\* 1983  
*Professor, Social Sciences*  
*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*

- Janet F. Furco, 2008  
*Assistant Professor, Nursing*  
*Regis University, M.S.*  
*Keuka College, B.S.*  
*Morrisville State College, 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.*
- Serafina M. Gagliardi, 2014  
*Instructional Support Assistant, Equine*  
*Morrisville State College, A.S., B.S.*
- Shelia M. Gallogly, 2007  
*Assistant Professor, Nursing*  
*SUNY Institute of Technology at Utica/Rome, B.S.N., M.S.*  
*Morrisville State College, A.A.S.*
- Wyatt J. Galusky, 2003  
*Associate Professor, Humanities*  
*Virginia Tech University, Ph.D.*  
*University of North Texas, M.A.*  
*Texas A & M University, B.S.*
- 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*
- John H. Giess, 2001  
*Instructional Support Associate, Mechanical Engineering*  
*Technology*  
*SUNY Institute of Technology at Utica/Rome, B.S., M.S.*  
*Mohawk Valley Community College, A.O.S.*
- Jennifer K. Gilbert Jenkins, 2015  
*Assistant Professor, Soil Science*  
*University of Delaware, Ph.D.*  
*University of Connecticut, M.S.*  
*SUNY at Buffalo, B.S.*
- Raymond S. Grabowski II, 2006  
*Assistant Professor, Automotive Technology*  
*Le Moyne College, M.B.A.*  
*SUNY at Oswego, B.S.*  
*Morrisville State College, A.A.S.*
- Carol Graham, 2013  
*Instructional Support Assistant, Nursing*  
*SUNY Institute of Technology at Utica/Rome, BS, MS*  
*Onondaga Community College, A.A.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, School of Agriculture*  
*SUNY at Oswego, M.S.*  
*Morrisville State College*
- Matthew L. Heckerman, 2002  
*Assistant Professor, Automotive Technology*  
*Morrisville State College, A.A.S., B. Tech.*
- Antonie Hiemer, 2009  
*Assistant Professor, Nursing*  
*SUNY Institute of Technology at Utica/Rome, B.S.N., M.S.*  
*Morrisville State College, A.S., A.A.S.*
- Kelly Hennigan, 2002  
*Associate Professor, Plant Sciences*  
*Cornell University, B.S., M.S.*  
*Sullivan County Community College, A.A.S.*
- Stephen L. Hinkle, 2001  
*Associate Professor, Humanities*  
*University of South Dakota, M.F.A.*  
*Augustana College, B.A.*
- Philip V. Hofmeyer, 2008  
*Assistant Professor, Renewable Energy Training Center*  
*University of Maine, Ph.D.*  
*SUNY College of Environmental Science and Forestry, B.S., M.S.*  
*Morrisville State College, 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  
*Assistant Professor, Social Science*  
*College of St. Rose, M.S.*  
*SUNY at Oneonta, B.S.*  
*SUNY at Cobleskill, A.A.S.*
- Eugene L. Horst, Jr., 2015  
*Assistant Professor, Mechanical Engineering Technology*  
*Binghamton University, M.S.*  
*SUNY Institute of Technology at Utica/Rome, B.S.*  
*Mohawk Valley Community College, A.A.S.*
- Marti C. Howell-Collins, 2012  
*Assistant Professor, Liberal Arts*  
*Syracuse University, Ph.D.*  
*University of Nevada-Reno, B.A., M.A.*
- Amelia Jeffrey, 2005  
*Assistant Professor, Nursing*  
*SUNY Institute of Technology at Utica/Rome, BS, MS*  
*SUNY Morrisville, AAS*
- Cydney M. Johnson, 2009  
*Assistant Professor, Business*  
*Syracuse University, B.S., M.B.A.*

Joan M. Johnson, 1981

*Professor, Resort and Recreation Service Management  
Curriculum Coordinator, B.B.A. and Hospitality Technology  
Syracuse University, Ed.D.  
Rochester Institute of Technology, B.S., M.B.A.  
Morrisville State College, A.A.S.  
State University of New York Chancellor's Award, 2006  
Certified Food Executive  
NISOD Award for Excellence in Teaching  
Morrisville State College Distinguished Faculty Award, 2002*

Graham C. Jones, 2004

*Assistant Professor, Automotive Technology  
SUNY at Albany, M.S.  
SUNY at Oswego, B.S.  
Morrisville State College, A.A.S.*

Kristen L. Kane, 2008

*Assistant Professor, Human Performance and Health Promotion  
Florida State University, M.S., Ph.D.  
SUNY at Oswego, B.A.*

Michael Kelley

*Assistant Professor, Journalism  
Northwestern University, M.S.  
University of Tennessee, B.S.*

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.  
Morrisville State College, 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 SUNY, B.P.S., M.Arch.  
Morrisville State College, 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

*Assistant Professor, Ford Motor Company ASSET Program  
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*

Karin C. Kimber, 2002

*Assistant Professor, Mathematics  
SUNY at Binghamton, M.A.  
Hartwick College, B.A.*

Thomas W. Kimber, 2001

*Assistant Professor, Mathematics  
SUNY at Binghamton, M.A., Ph.D.  
State University College, B.A.*

Stephen R. Klingaman, 2001

*Professor, Computer and Information Technology  
SUNY at Albany, M.S.  
Syracuse University, B.A., M.S.*

Kathleen Ann Knittel, 2014

*Assistant Professor, Nursing  
Keuka College, B.S., M.S.  
Saint Joseph College of Nursing, A.S.*

Wade B. Lamb, 2011

*Instructor, Liberal Arts  
SUNY at Oswego, B.A.  
Morrisville State College A.A.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 M. Lichoro, 2015

*Assistant Professor, Computer Information Technology  
Iowa State University, B.S., M.S., Ph.D.*

Yea-Chyn (Ivy) Liu, 2006

*Associate Professor, Computer and Information Technology  
SUNY at Stony Brook, Ph.D.  
Syracuse University, M.S.*

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 at 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, School of Business  
Rochester Institute of Technology, M.S.  
Morrisville State College B.B.A.*

Andrew P. MacLean, 2007

*Instructional Support Assistant, Automotive Technology  
Morrisville State College, A.A.S.*

Loren A. Maki, 2003

*Assistant Professor, Automotive Technology  
SUNY Institute of Technology at Utica/Rome, M.S.  
Cornell University, B.S.  
Morrisville State College, A.A.S.  
ASE CMAT & LI Certification  
NYS DMV Inspector Certification*

- Richard P. Marcoux, 2006  
*Associate Professor, Computer and Information Technology  
Nova Southeastern University, Ph.D.  
Rochester Institute of Technology, M.S.  
American University, B.S.*
- Sonia M. Marris, 2011  
*Assistant Professor, Nursing  
SUNY Institute of Technology at Utica/Rome, B.S.N., M.S.  
Morrisville State College, A.A.S.*
- Sheila A. Marshman,\* 2000  
*Assistant Professor, Agricultural Business  
Capella University, Ph.D.  
Le Moyne College, M.B.A.  
Johnson State College, B.A.*
- Brian J. Matt, 2014  
*Instructor, Nursing  
Utica College, R.N., B.S.N  
St. Elizabeth's College of Nursing, A.A.S.*
- Michael L. Mazza, 1999  
*Assistant Stable Manager  
Morrisville State College, A.A.S.*
- Lenno M. Mbagwa, 1997  
*Associate Professor, Wood Products Technology  
Penn State University, M.S., Ph.D.  
Kean College, M.A., B.A.*
- Robert Milano, P.E., 1995  
*Associate Professor, Automotive Engineering Technology  
University of Connecticut, Ph.D.  
Pennsylvania State University, M.S.  
SUNY at Buffalo, B.S.  
SUNY at Farmingdale, A.S.*
- Nathan M. Miller III, 2003  
*Instructional Support Assistant, Automotive Technology  
Morrisville State College, A.A.S.*
- C. Steven Mooney, 2009  
*Assistant Professor, Dairy Science  
Michigan State University, M.S., Ph.D.  
Cornell University, B.S.*
- Erin Morgan-Paugh, 2012  
*Assistant Professor  
Cornell University, B.S.  
Cornell University, DVM*
- Alfred P. Muss II, 2001  
*Professor, Business Administration  
SUNY at Binghamton, B.S., M.B.A.  
Broome Community College, A.S.  
State University of New York Chancellor's Award, 2011*
- Joan A. Nicholson, 2008  
*Assistant Professor, Nutrition and Dietetics  
Syracuse University, B.A., M.S., C.A.S.*
- Nga Nguyen, 2015  
*Assistant Professor, Economics  
Rutgers University, M.A., Ph.D.  
Foreign Trade University, B.A., M.A.*
- Dean P. O'Grady, 1995  
*Assistant Professor, Biology  
SUNY College of Environmental Science and Forestry, M.S.  
Alfred University, B.S.*
- Victor I. Okereke, 1997  
*Associate Professor, Environmental Technology  
Iowa State University, M.S., Ph.D.  
University of Portland, B.S.  
Alvan Ikoku College of Education, N.C.E.*
- Adam Olinski, 2014  
*Instructional Support Assistant, Horticulture  
State University of New York College of Environmental  
Science and Forestry, M.S., B.A.  
State University of New York at Delhi, A.A.S.*
- Paul A. O'Neil, 1998  
*Associate Professor, Mathematics  
Clarkson University, M.S.  
SUNY at Potsdam, B.A.*
- Brenda Oursler White, 2000  
*Associate Professor, Mathematics  
Syracuse University, B.A., M.S.  
Morrisville State College, A.A.S.*
- Patricia A. Payette, 2001  
*Assistant Professor, Office Technology  
SUNY at Oswego, B.A., M.A.  
SUNY at Canton, A.A.S.*
- Laura M. Pierie, 2014  
*Assistant Professor, Teacher Education Transfer Program  
SUNY Potsdam College, B.A., M.A.*
- Thomas A. Pilewski, 2007  
*Assistant 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  
Morrisville State College Distinguished Faculty Award, 2005*
- Michael P. Reeve, 1984  
*Associate Professor, Mechanical Engineering Technology  
SUNY at Oswego, M.S., V.T.E.  
Empire State College, B.S.*
- Bruce M. Revette, 2000  
*Assistant Professor, Residential Construction  
SUNY at Cortland, M.S.Ed.  
SUNY at Potsdam, B.A.*
- Kurt E. Reymers, 2001  
*Associate Professor, Social Science  
University of Buffalo, M.A., Ph.D.  
SUNY at Potsdam, B.A.  
State University of New York Chancellor's Award 2013*

- Angela M. Rhodes, 2010  
*Assistant Librarian*  
*Syracuse University, M.S.L.I.S.*  
*University of South Carolina, B.S.*
- 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.*
- Christine A. Rudecoff, 2007  
*Director of Libraries*  
*Columbia University, M.A.*  
*SUNY at Albany, M.S.I.S.*  
*University of Michigan, B.A.*
- Laura M. Ryan, 2014  
*Assistant Librarian*  
*University at Buffalo, The State University of New York, B.A., M.L.S.*
- Stephen D. Sanders, 2015  
*Director/Head Trainer Of The Environmental Training Center*
- Adam Saunders, 2013  
*Assistant Librarian*  
*University of Buffalo, M.L.S.*  
*SUNY at Geneseo, B.A.*
- Correne G. Sawyer, 2001  
*Instructional Support Assistant, Environmental Training Center*  
*Onondaga Community College, A.A.S.*
- Christopher M. Scalzo, 2001  
*Associate Professor, Business Administration*  
*University of Phoenix, D.B.A.*  
*St. John Fisher College, M.B.A.*  
*SUNY at Brockport, B.S.*
- John W. Scutt, 1994  
*Assistant Professor, Automotive Technology*  
*SUNY at Oswego, B.S., M.S.*  
*Morrisville State College, A.A.S.*  
*A.S.E. Certification*  
*G.M. Certification*  
*Ford Certification*  
*N.Y.S. D.M.V. Certification*
- Scott D. Seymour, 1997  
*Stable Manager*  
*Cornell University, B.S.*  
*Morrisville State College, A.A.S.*
- Murray D. Shackelford, Jr., 2004  
*Instructional Support Associate, Automotive Technology*  
*Morrisville State College, A.A.S.*
- Erin M. Shantal, 2004  
*Equine Breeding Manager*  
*Morrisville State College, A.A.S., B.Tech.*
- 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*
- Roberta H. Sloan, 2003  
*Associate Professor, Computer and Information Technologies*  
*Capella University, Ph.D.*  
*University of Maryland, M.G.A.*  
*U.S. Naval Academy at Annapolis, B.S.*  
*Morrisville State College Distinguished Faculty Award, 2015*
- 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*  
*Morrisville State College Distinguished Faculty Award, 2014*
- David S. Soucy, 1983  
*Assistant Professor, Horticulture*  
*Cornell University, B.S., M.A.T.*  
*SUNY at Cobleskill, A.A.S.*
- Bonnie L. St. Hilaire, 2008  
*Assistant 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 Institute of Technology at Utica/Rome, B.S., M.S.*
- Judith A. Sullivan, 2002  
*Assistant Professor, Business Administration*  
*SUNY Institute of Technology at Utica/Rome, M.S.*  
*Utica College, B.S.*
- Norma J. Swartout, 2009  
*Assistant Professor, Nursing*  
*University Of Phoenix, B.S., M.S.*  
*Mohawk Valley Community College, A.A.S.*
- Gregory W. Sydoriv, 2006  
*Assistant Professor, Humanities*  
*SUNY at Binghamton, M.A.*  
*SUNY at Oneonta, B.S.*  
*Mohawk Valley Community College, A.S.*
- Ryan M. Tabolt, 2004  
*Instructional Support Assistant, Automotive Technology*  
*Morrisville State College, A.O.S.*
- Andrew J. Tanner, 2002  
*Instructional Support Assistant, Biology and Chemistry*  
*Alfred University, B.A.*  
*Morrisville State College, A.A.S.*
- Mary E. Taylor, 2002  
*Equine Institute Business Coordinator*  
*Morrisville State College, A.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.*  
*Morrisville State College Distinguished Faculty Award, 2006*
- Douglas A. Trew, 2004  
*Instructional Support Technician, Dairy*  
*Morrisville State College, A.A.S.*

Susan K. Trueworthy, 2014

*Assistant Professor, Nursing  
State University of New York Institute of Technology, M.S.N.  
State University of New York at Brockport, B.S.N.  
Cazenovia College, A.S.*

Phyllis K. Tucker, 1998

*Associate Professor, Business Administration  
SUNY Institute of Technology at Utica/Rome, 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  
Morrisville State College, A.A.S., B.T*

Mary Stella Van Waes, 2007

*Assistant 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 at Cortland, B.A.  
Bryant and Stratton College, A.S.*

Paul A. Vosteen, 2008

*Assistant Professor, Accounting  
Western New England College of Law, J.D.  
SUNY at Albany, B.S.*

Terrence Ward, 2015

*Assistant Professor, Mathematics  
Southern Illinois University, B.S., M.S.*

Nick C. Warner, 2008

*Assistant Professor, Residential Construction  
SUNY at Oswego, B.S., M.S.  
Johnson Technical Institute, A.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*

Cole F. Wimmer, 2010

*Assistant Stable Manager  
Morrisville State College, A.A.S., B.Tech.*

Gilbert M. Wistrup, 2000

*Assistant Professor, Automotive Technology  
Morrisville State College, A.A.S.*

Teri L. Wood, 2011

*Instructional Support Assistant, Nursing  
Excelsior College, BS, MS  
Morrisville State College, AAS*

Laurie A. Zbock, 2007

*Assistant Professor, Massage Therapy  
Utica College, M.S., B.A.  
Morrisville State College, A.A.S.*

Melody L. Ziobro,\* 2004

*Assistant Professor, Nursing  
Syracuse University, M.S.  
SUNY Institute of Technology at Utica Rome, B.S.  
Onondaga Community College, 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 Morrisville State College. 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, Academic Affairs  
SUNY at Oswego, B.A., M.S.Ed.  
Central City Business Institute, A.O.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  
SUNY at 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

*Staff Assistant  
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 Institute of Technology at Utica/Rome, B.P.S.*

Timothy C. Penix, 1998

*Vice President of the Syracuse EOC  
SUNY at Plattsburgh, B.S., M.A.*

Joanne T. Perez, 2002

*Counselor  
SUNY at Binghamton, B.A.  
Buffalo State University, M.S.*

Tracy S. Reid, 2013

*Tutoring Lab Coordinator  
Le Moyne College, B.S.*

Timothy J. Sullivan, 2012

*Staff Assistant  
SUNY Brockport, B.S.  
SUNY Niagara, A.A.S.*

Sharia C. Triche, 2013

*Academic Advisor  
Syracuse University, B.S.W., M.S.W.  
Morrisville State College, 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

*Counselor  
SUNY at Binghamton, 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.S.*

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.*

## FACULTY AND PROFESSIONAL EMERITI

Omanii Abdullah	Walter C. Flanders	Edward J. Lynch	Madeline Snyder
Rodger Albert	John W. Galbreath	William Maddison	Colleen Stella
John J. Angerosa	Barrett L. Gates	Joyce A. Malloy	James Taylor
Margaret S. Argentine	Michael D. Gieryic	Mark A. Manchester	Philip W. Tayntor
Mark L. Ashton	Carl E. Glenister	Brian L. McDowell	Arthur R. Thompson
Janet L. Aylesworth	Arthur Glow	James D. McFarland	Gregory H. Tyler
Lawrence J. Baker	James L. Godfrey	Beverly G. McKay	Jeanne M. Urban
Rosemary L. Baker	Margaret M. Golden	James McPherson	Robert J. Van Malderghem
Neal E. Bandlow	Eugene Gonzales	Colleen B. McSweeney	James C. VanRiper
Harold C. Bennett	Elizabeth A. Grant	Marjorie Merrilees	Lawrence F. Virkaitis
Charles D. Blaas	Kingsley L. Greene	Bonaly J. Miller	Douglas O. Westcott
Nancy F. Bond	Susanne H. Greenhagen	Kim Mills	Robert T. Whalen
Craig A. Brown	Adelbert H. Hall	Audra R. Mockovak	Kathleen L. White
Mary T. Brown	Billy G. Harper	Paul W. Mockovak	Robert E. Whitecavage
William L. Burt	Robert T. Hasegawa	Grace H. Modrzejewski	Jean G. Wilberg
Jerome C. Caretti	Wayne A. Hausknecht	Diana L. Molloy	Shelly H. Williams
William L. Carr	James P. Hawley	Denise S. Moore	Beverly C. Wise
Richard J. Carreno	William J. Head	Nancy G. Moses	Lois S. Woods
Paul E. Carter	Robert Hemmings	Michael J. Mullins	Frederick W. Woodward
Matthew Castellucci	Richard J. Higby	George R. Musal	Herman Worzel
Eleanor Taylor Chard	Fred Hildebrand	Joseph E. Nassimos	Anthony P. Zazzara
Howard Close	Marion Hildebrand	Francis M. Nataluk	
Norm E. Cohen	Lewis V. Holmes	Paul J. Nelson	
Roger P. Combs	Raul A. Huerta	Sharon T. Ogrydziak	
Frank Cook	Nick B. Hunter	Louis G. Olney	
Joseph Coppola	David W. Hutchings	Edward J. Parker	
Jack R. Crawford	Jon E. Iannitti	James S. Parker	
Christine A. Cring	Joseph R. Insel	Anthony P. Patane	
James W. Cronn, Jr.	Dorothy Ivinski	Kenneth F. Patterson	
Penelope Croot	Fern A. Jackson	Marylyn B. Paul	
Kay L. Cummings	Minnie C. Jenkins	Margaret S. Peer	
Joan M. Danehy	Donald F. Jones	Phyllis E. Petersen	
Norman K. Dann	Donald G. Jones	Gretchen J. Plotkin	
Richard H. Dansingburg	Mark L. Jones	Patricia J. Powers	
Thomas G. David	William R. Jones	Roger W. Powers	
Manuel F. DeMedeiros	Richard L. Kapral	David G. Puddington	
David. A. Denmat	James W. Kelly	Jeanne S. Resnick	
Jana L. DeVencenzo	Adam Khan	Louisa A. Richards	
John J. DeVencenzo	Eileen E. Kinsella	Charles L. Roberts	
Philip J. DiNovo	Robert D. Lambert	Stanley H. Roe	
Henry I. Douglas	Robert V. Lancaster	Robert M. Rouse	
Nancy J. Douglas	Eugene L. Larchar	Dennis E. Sands	
Bruce E. Duncan	Steven J. Law	Carol A. Schade	
Charles Dvorak	Richard T. Lawler	Ethel H. Schaffer	
James D. Engle	Thomas C. Leamer	Robert S. Schumacher	
Robert N. Ewen	H. Arthur Lemery	Renate B. Simson	
John C. Ewing	J. Russell Leonard	Thomas J. Skuce	
Gary C. Farney	Gerald A. Leone	Donald A. Smith	
Frederick P. Farrar	Garrison B. Lewis	Marie Smith	
Katherine D. Flanders	Vera-Elisabet Littlejohn	Kenneth R. Snyder	

## 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

John C. Mitchell, Chairman  
Larry Hitchcock '70, Vice Chairman  
Glenn Gaslin, Treasurer  
Emily O. Marshall, Secretary

### Board Members:

John J. Angerosa  
Lawrence J. Baker  
Brian M. Bartlett  
Juanita J. Bass  
Jean L. Boland  
Douglas R. Burns, Jr., CFA, CPA  
John M. Curtin  
Deresa F. Durkee  
Arnold R. Fisher  
Dennis F. Kelly '67  
William D. Magee  
John C. Mitchell  
Dr. Stephen M. Paravati '85  
Timothy C. Penix  
Barbara Ross

Richard M. Runyon  
Gregory C. Slack, Ph.D. '83 President Alumni Board  
Margaret Hoose, President Faculty congress  
Student Government Representative

### Ex-Officio:

David E. Rogers, Ph.D.

### Executive Director:

Sara A. Way

### Alumni Board of Directors

Gregory C. Slack, Ph.D. '83, President  
Deborah K. McCaffery '74, Secretary  
Kimberly L. Baums '91  
Wade B. Coye, Esq. '78  
Linda J. Gorton '79  
Mary Claire Helmer '81  
Larry W. Hitchcock '70, Past President  
Patricia A. King '77  
Lisa Pearson '93  
Randy A. Weatherby '79  
Sharry L. Woodcock '89

## ACADEMIC ADVISORY COMMITTEES

### SCHOOL OF AGRICULTURE, SUSTAINABILITY, BUSINESS, AND ENTREPRENEURSHIP

#### Agricultural Engineering

Mike Helms, Research Support Specialist-  
Entomology, Cornell University, Ithaca, NY  
David Powers, Cummins North East, Syracuse, NY  
Michael G. Flynn ('69), M.J. Flynn, Incorporated, East Syracuse, NY  
Scott Gregor, Executive Committee, New York Farmer  
Equipment Dealers Assn., Liverpool, NY  
Arthur Ives, Service Manager, Stadium International, Cicero, NY  
Andy Nethercott, Training Manager,  
Syracuse Supply Co., Syracuse, NY  
Edward Skeeel, Manager, Lucas of Cortland, Cortland, NY  
Richard Smith, Technical Services Employee,  
Syracuse Supply Co., Syracuse, NY  
Peter Wright, Senior Extension Associate,  
AWM, Cornell University, Ithaca, NY

## Agricultural Science, Dairy and Agricultural Business

John F. Conway, Senior Extension Associate, Pro-Dairy, Cornell University, Ithaca, NY

David M. Galton, Department of Animal Science, Cornell University, Ithaca, NY

Steve Richards, Farm Management Specialist, Cornell University, Ithaca, NY

Ronald Robbins, DBA North Harbor Farms, Sackets Harbor, NY

## Animal Science-Dairy

Debbie Clute ('86), Eldred Farms, Locke, NY

John Conway, Cornell Pro Dairy, CCE Otsego County, Morrisville, NY

Glen Osterhout, Ag Education Teacher, Madison Central School, Madison, NY

Dale VanErden, Eastview Farm, Fabius, NY

Dr. Douglas Waterman ('77), Madison, NY

Corwin Holtz, Western New York Agway, Dryden, NY

## Horticulture

Gary Gasparini ('77), Gasparini Landscaping Company, Camillus, NY

Gilbert Willson ('71), Willson's Nursery, Verona, NY

Jan Barendse, Baker Greenhouses, Utica, NY

John Palmer ('84), J.K. Heritage Flower Shop, Williamson, NY

Nanette Haynor, Whistle Stop Flower Shop, East Syracuse, NY

Vicky Schaefer, Schaefer's Gardens, Triangle, NY

## Plant Sciences

Steve Adamkowski, Grower/Manager, Hines Color Greenhouses, Frankfort, NY

Nino Gagliano, Jr., Owner, Backyard Garden Florist, Fayetteville, NY

Daniel Metz, Supervisor of Design and Sales, Landscapes East, Inc., Morrisville, NY

Peter J. Semini, Superintendent, Seven Oaks Golf Club, Hamilton, NY

## Accounting

Lynn Stearns, CPA, Alpert, Sterns, Daly & Lacombe, LLP, Fayetteville, NY

Arthur Wasserman, C.P.A., Utica, NY

Patricia Wright, C.P.A., Bowers & Company CPAs, PLLC, Syracuse, NY

## Bachelor Degree Business and Management Advisory Council

Peter Fobare, Retired Senior VP Senior Vice President, Consumer Division

Oneida Ltd. Currently, consultant in the Homewares Industry.

Melissa Perry, Directory of Sustainability Executive, Director, Manfred Construction

Anne Kassel, VP, Human Resources, Manufacturers Alliance of New York State

Barb Ashkin, Chief Financial Officer, CXTec company

Robert Berkey, Chief Operating Officer, Pyramid Brokerage Co.

Matt Roberts, President, Sherrill Manufacturing Co.

Yolanda Johnson, President, Hot Cocoa products (Entrepreneur)

Craig Watters, Asst. Professor, Syracuse University (Works with the South Side Incubator and Near West Side Syracuse Initiative)

Greg Hardin, Chief Executive Officer and President Hardin Furniture

Dominick Sabatino, Channel Manager, Pepsico.

Joel Delmonico, VP and General Manager, Retired, ClearChannel Communications

Robert Trachtenberg, President, CNYTDO

Barry Weiss, Chief Administrative Officer, Onondaga County District Attorney's Office

Melanie Littlejohn, Regional Executive, National Grid

## Business Administration

Susan Beebe, Lighthouse Marketing, E. Syracuse, NY

Paula Ford, Key Bank, Morrisville, NY

Catherine Green, P.E.A.C.E., Inc., Syracuse, NY

Phillip Schillaci, Schillaci Insurance Agency, Rome, NY

## Hospitality Technology

James Barr, Proprietor, The Brae Loch Inn, Cazenovia, NY

Francis Domoy, Ph.D., Director, RIT, Rochester Institute of Technology, School of Food, Hotel and Tourism, Rochester, NY

Charles Miller, CFE Vice President of Sales, Paul DeLima Coffee, Syracuse, NY

Earl Reed, CFE, Sodexo, Presbyterian Residential Community, Utica, NY

Douglas Rusch, GM, The Craftsman Inn, Fayetteville, NY

John Stratton, Ph.D., Associate Dean, RIT, Rochester, NY

Diane Stirling, Government Relations, The Oneida Indian Nation, Oneida, NY

Mark Tropia, Coordinator, Madison Oneida BOCES, Verona, NY

Sherry Tyler, BTI, Syracuse, NY

Paul Zeigler, CTC, Director, Oneida County Convention and Visitor's Bureau

## Office Technology

Cheryl Calarese, Upstate Medical University, Syracuse, NY

Michele Frateschi, Equivest Capital, Syracuse, NY

Susan Hoffmann ('80), Morrisville-Eaton  
Central School, Morrisville, NY

## Food, Hospitality and Travel Management Department

David A. Albanese ('72), Kraft Food Service, Syracuse, NY

Kevin Bane, Cicero, NY

James Barr, The Brae Loch Inn, Cazenovia, NY

Charles Cummings, Syracuse, NY

Charles Everett, Syracuse, NY

David Jachimowicz ('84), Owner of Pudgie's Pizza, Rochester, NY

Peter J. Kallet, VP of Oneida Food Service  
Oneida Limited, Oneida, NY

John Lehmann, Syracuse, NY

Ronald Leo, Syracuse Branch President IFSEA, E. Syracuse, NY

Warren G. Sackler, Rochester Institute of Technology,  
School of Food, Hotel and Tourism, Rochester, NY

Patrick Smith, Pittsford, NY

Kenneth J. Wolf, New York Restaurant Assoc., Lowville, NY

## Travel/Tourism and Hospitality Management Program

Mark DeMellier, President of Chenanago  
Valley Travel, Norwich, NY

Francis Domoy, Director of School of Food, Hotel, and Tourism  
at Rochester Institute of Technology, Rochester, NY

Richard F. Duda, Director of Sales and Marketing,  
Turning Stone Casino, Verona, NY

William Dunn ('96), Beck's Grove Restaurant  
and Dinner Theater Inc., Blossvale, NY

Howard Kaler, Pittsburgh Athletics, Pittsburgh, PA

Renee Gabriel, Smith Advertising Group, Syracuse, NY

John A. Stratton, Assoc. Dean at Rochester  
Institute of Technology, Rochester, NY

Mark Tropia, Cooperative Education, Madison/  
Oneida BOCES Coordinator, Verona, NY

Paul Ziegler, Director, Oneida County Convention  
and Visitors Bureau, Utica, NY

## SCHOOL OF SCIENCE AND TECHNOLOGY

### Architectural Studies and Design

Anthony Catsimatides, AIA, NCARB,  
Principal, Open Atelier, Syracuse, NY

Julia Haffka-Marshall, AIA, Associate, Holmes, King,  
Kalliquist and Associates, Architects LLP, Syracuse, NY

Thomas R. Pratt, AIA, Principal, Thomas R. Pratt Architect  
PC, and Architectural Management LLC, Fayetteville, NY

## Automotive Technology

Richard Becher, 303 Everingham Road, Syracuse, NY

Terry Bish, Terry Transmission, Syracuse, NY

Rocko Canato, CanTeck, Syracuse, NY

Steve Donovan, Monroe BOCES

James Erlichman, OCM BOCES

John Hawkins, Norwich, NY

Lyle Regan, Quality Auto Care, Cazenovia, NY

David Bouvia, AAA, Hawley Ave., Syracuse, NY

Mark Gonya ('76), Transit Lane, Baldwinsville, NY

John Metzler, TWCNY

Jeffrey Nilles, Nilles Ford, Hamilton, NY

J. P. Pegoli, PNW BOCES

Roger Powers, Cazenovia, NY

Gary Vleck, Chrysler Corp., Cortland, NY

Jeffery Ward, General Motors, 4853 William Street, Lancaster, NY

## Autobody

George Belton

Steve Buono

Dave Ryder, Drivers Village

Mike Orso, Nick Orso's Body shop

Roger Powers

Gil Strong, Strong's Collision

Diane Schmid-McCall, Rudy Schmid Body and Frame Shop

Bill Supernault

Jeff Lyman, Jeffrey's Auto body

Scott Jones, Northside Collision

Kirk Douglas, Keystone Automotive Industries

Joe Picciott, J & T Automotive

Mark Schultz, Schultz Auto Works

Cary Bikowsky, DuPont Performance Coatings

Stephen Mohr

## Human Performance and Health Promotion

Dennie Taft, Manlius YMCA

Patricia Calcara, Chittenango Central Schools

Carol Sames, Vitality Fitness Program and Upstate Medical Univ.

Paul Helsel, Colgate University

Lindsey Reider, Onondaga Community College

Robin Weeks, Onondaga Community College

## Massage Therapy Advisory Committee

Adrien Catania

Paula Christ, L.M.T., Cazenovia, NY

David Grover, L.M.T./O.T., Syracuse, NY

Verna Hall, L.M.T., Marcellus, NY

Joanne Lyons, L.M.T., Syracuse, NY

Ed Griffin-Nolan, Syracuse, NY

Laura Riposo-Hackney

## Mechanical Engineering Technology

John Dunkle, Town Manager, Dunn and

Sgromo Engineers, Cazenovia, NY

Daniel Jones, Chair, Engineering Tech, SUNY Polytechnic Institute

Micahel Len, Engineering Manager, Anaren Microwave, Inc.

William Leonard, Chair MET, RIT, Rochester, NY

Linda McKay, HR Manager, Knowles –  
Dielectric Laboratories, Inc.

Richard Smith, Supervisor, Engineer, Briggs and Stratton Corp.

Kirk Wardell, Director of Operations

## Nutrition and Dietetics

Autum Blood, Cornell Cooperative Extension, Norwich, NY

Kelly Boswell MA, RD, Canastota Central Schools, Canastota, NY

Lynn Brann, Ph.D, RD, Syracuse University, Syracuse, NY

Mary Anne Dowdell, Ph.D., R.D., Assistant  
Professor, SUNY College at Oneonta, NY

Maureen Foulter, MHA, R.D., C.D.N. Loeretto  
Health and Rehabilitation Center, Syracuse, NY

Amanda Hewitt, Nelson Farms, Nelson, NY

Sharon Hoff, R.D, Oneida Health Care Center, Oneida, NY

Barbra Cerio Iocco, M.S., R.R., Assoc. Prof., RIT

Dina Lawson, R.D., CDN, Madison, Lewis,  
Chenango Cty. Offices of the Aging

Lori Magrath, D.T.R., NYS Veterans Home, Oxford, NY

Chrysta A. Mills, D.T.R., CD/N, Community  
General Hospital, Syracuse, NY

Bill Robinson, GM, R.D., The Friendly Home  
of Rochester, Sodexo, Rochester, NY

Nancy Rindfuss, M.A., R.D., DPD Director,  
Syracuse University, Syracuse New York

Katha Root, Chenango Cty. WIC, Norwich, NY

Kelly Wright R.D.N., C.D.N., Nutrition Resource  
Manager, Central NY Food Bank

Claudia Ynsuela, Sales and Marketing  
Manager, Nelson Farms, Nelson NY

Kim Smith, M.S., R.N, CNE, Interim Dean of  
Nursing, SUNY Morrisville, Morrisville, NY

Diane Tice, Ph.D, Professor, SUNY Morrisville, Morrisville, NY

Paul O'Neil, Associate Professor, Mathematics,

SUNY Morrisville, Morrisville, NY

Kerry Beadle, Assistant Professor, Food Service  
Administration, SUNY Morrisville, Morrisville, NY

Mark Whitney, Professor, Humanities,  
SUNY Morrisville, Morrisville, NY

## Nursing Division

Patricia Bogan, Department of Health

Gail Ashley, Chenango Memorial Hospital

Diane Chase, Community Memorial Hospital

Margaret Chase, M.S., R.N., Syracuse, NY

Louise Dean-Kelly, SUNY Polytech

Beatrice Dunks, VA Medical Center, Syracuse, NY

Durinda Durr, M.S., R.N. Vice-President for  
Nursing, Rome Memorial Hospital, Rome, NY

Cynthia Ewig, MSC Alumni

Deb Fisher, VA Medical Center, Syracuse, NY

Joyce Griffin-Sobel, SUNY UpState University, Syracuse, NY

Giarrusso Kohlbrenner Oneida Healthcare Center, Oneida, NY

Eileen Kinsella, MSC Emeritus

Patty Lowry, Crouse Community Center

Denise Hummer, B.S., R.N., Vice-President of Administrative  
Services, Community Memorial Hospital, Hamilton NY

Pamela Mahon, SUNY UpState University, Syracuse, NY

Sandra Mahoney, R.N., M.S., Director of Nursing  
Service, Rome Hospital, Rome, NY

Tracey Morris, R.N., M.S., C.A.S., Education Manager/  
designated Learning Officer, VA Medical Center, Syracuse NY

Lynne Phillely, Rome Memorial Hospital, Rome, NY

Tasha Rathbone, Bassett Medical Center

Colette Wilk, M.S.N., R.N., Nurse Clinician, Education  
Services, Faxton-St Luke's Healthcare, Utica, NY

Sharon Wills, Oneida Healthcare Center

Linda Winston, R.N.C., B.S., Director of Nursing,  
New York State Veterans Home, Oxford, NY

Elizabeth Kelly, B.S., R.N., Clinical Educator,  
Oneida Healthcare, Oneida, NY

## Residential Construction

Sally Campbell, Suzanne L Martin Real Estate

Paul Crovella, Prfessor, ESF, Dept of Sustainable  
Construction Management and Engineering

Lance Kenyon, President, Cossitt Concrete Products, Inc.

Luke Lewis, Lewis Custom Homes, Inc., V.P. Home  
Builders and Remodelers of Mohawk Valley, Inc.

Scott McClurg, President, McClurg Associates, Inc.

John Millar, Irish-Millar Construction, Inc.

Zach Sharp, Cazenovia Lumber and Oil, Inc.

Julie Wratten, Branch Manager, Curtis Lumber, Inc.

## Wood Products Technology

Karl Driesel, Owner, Karl Driesel, Inc.

Ryan Dust, Senior Engineer, Harden Furniture

Kevin Gillette, President, Tioga Hardwoods, Board of Directors for National Hardwood Lumber Association

Ron Rachubka, Syracuse Industrial Sales, Inc.

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