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## Renewable Energy Technology A.A.S. (#2098) – Typical Schedule

### Year 1

#### Fall Semester

RENG 101	Electrical Theory for Renewable Resources (4 cr.)
RENG 102	Renewable Energy Resources (3 cr.)
RENG 103	Renewable Energy Seminar (1 cr.)
MATH	(as advised) (3 cr.)
COMP 101	Composition and Research (3 cr.)
NATR 103	Natural Resources Equipment Operation* (2 cr.)

#### Spring Semester

RENG 150	Analysis Techniques for Renewable Energy (1 cr.)
AGEN 151	Applied Hydraulics for Hydropower Generation (3 cr.)
AGEN 125	Residential Electrification (3 cr.)
CHEM 110	Contemporary Chemistry (4 cr.)
COMP 102	Writing about Literature (3 cr.)
OFFT 110	Intro to Spreadsheet Software (1 cr.)

### Year 2

#### Fall Semester

RENG 310	Biomass Energy Resources (3 cr.)
RENG 231	Introduction to Solar Photovoltaics (3 cr.)
PHYS 107	Introduction to Physics (4 cr.)
RESC 221	Plumbing* (3 cr.)
RESC 130	Light Framing* (3 cr.)

#### Spring Semester

NATR 213	Basics of Geospatial Technology (1 cr.)
RENG 221	Introduction to Small Wind Systems (3 cr.)
AUTO 102	Metals* (3 cr.)
CITA 140	Introduction to Programming* (3 cr.)
HIST, WC, OW	History (as advised) (3 cr.)
RESC 260	Heating and Energy Systems* (3 cr.)

#### \*Recommended Technical Electives:

AUTO 102	Metals (welding)
AGEN 240	Advanced Welding
BSAD 100	Business in the 21 <sup>st</sup> century
BSAD 112	Marketing
BSAD 116	Business and Organization Management
CITA 140	Introduction to Programming
ECON 100	Intro. To Macroeconomics
ECON 140	Intro. To Microeconomics
NATR 103	Natural Resources Equipment Operation
RENG 225	Tower Climbing and Rescue
RESC 130	Light Framing
RESC 201	Estimating & Planning
RESC 221	Plumbing
RESC 260	Heating and Energy Systems

## Year 1

### Fall Semester

RENG 101	Electrical Theory for Renewable Resources (4 cr.)
RENG 102	Renewable Energy Resources (3 cr.)
RENG 103	Renewable Energy Seminar (1 cr.)
MATH	(as advised) (3 cr.)
COMP 101	Composition and Research (3 cr.)
OFFT 110	Intro to Spreadsheet Software (1 cr.)

### Spring Semester

RENG 150	Analysis Techniques for Renewable Energy (1 cr.)
AGEN 151	Applied Hydraulics for Hydropower Generation (3 cr.)
AGEN 125	Residential Electrification (3 cr.)
NS	Nat. Science (as advised, e.g. CHEM 110) (4 cr.)
COMP 102	Writing about Literature (3 cr.)
Elective*	Lower division elective (e.g. NATR 103) (2 cr.)

## Year 2

### Fall Semester

RENG 310	Biomass Energy Resources (3 cr.)
RENG 231	Introduction to Solar Photovoltaics (3 cr.)
NS	Nat. Science (as advised, e.g. PHYS 127) (4 cr.)
Gen Ed	As advised (e.g. social science) (3 cr.)
Elective*	Lower division elective (e.g. RESC 221) (3 cr.)

### Spring Semester

CAD 181	Intro to Computer-Aided Drafting (1 cr.)
RENG 221	Introduction to Small Wind Systems (3 cr.)
NS	Nat Sci. (as advised, e.g. BIOL 120) (4 cr.)
Elective*	Lower division elective (e.g. RENG 225) (2 cr.)
Gen Ed	As advised (e.g. HIST) (3 cr.)
Elective*	Lower division elective (e.g. AUTO 102) (3 cr.)

## Year 3

### Fall Semester

RENG 430	Solar Photovoltaics Systems (3 cr.)
RENG 331	Intro to Solar Thermal Systems (3 cr.)
Gen Ed	As advised (e.g. Western Civilization) (3 cr.)
DTEC 325	Electrical Power Generation (3 cr.)
Elective	Elective (e.g. BSAD 300) (3 cr.)

### Spring Semester

RENG 415	Biomass Energy Conversions – Thermochem (3 cr.)
RENG 435	Advanced Topics in Solar Photovoltaics (3 cr.)
RENG 306	Alternative Fuel Vehicles (2 cr.)
Elective*	Elective (e.g. COMP 310) (3 cr.)
Elective*	Elective (e.g. BSAD 400) (3 cr.)

## Year 4

RENG 321	Intro to Micro Hydroelectricity (3 cr.)
RREN 450	Internship Orientation (1 cr.)
RENG 490	Renewable Energy Internship (3 -15 cr.)

## Spring Semester

RENG 460	Systems Integration (1 cr.)
RENG 410	Biomass Energy Conversions – Biochemical (3 cr.)
RENG 420	Small Wind Systems (3 cr.)
Elective*	Upper division elective (e.g. RREN 332) (3 cr.)
Elective*	Elective (e.g. CITA 405) (3 cr.)

## \*Recommended Technical Electives (as Advised)

### Lower division

AGRO 110	Soil Science
AGRO 210	Field Crops
AUTO 102	Metals (welding)
AGEN 161	Basic Hydraulics
BSAD 116	Business and Organization Management
CAD 181	Intro to CAD
CAD 183	Architectural CAD
CITA 120	Computer Concepts and Operating Systems
CITA 140	Introduction to Programming
CITA 200	Data Communications and Networking
DTEC 150	Diesel Systems
ENSC 101	Agricultural Science
ENSC 106	Pesticide Use and Handling
ENSC 107	Integrated Pest Management
MECH 101	Machine Tools
MECH 211	Analytical Mechanics (Statics)
NATR 103	Natural Resources Equipment Operation
NATR 213	Basics of Geospatial Technology
RENG 225	Tower Climbing and Rescue
RENG 251	Anaerobic Digester Design and Operation
RESC 130	Light Framing
RESC 221	Plumbing
RESC 260	Heating and Energy Systems

### Upper Division

AGRO 310	Pasture Mgmt. and Forage Production
BSAD 300	Management Communications
BSAD 310	Human Resources Management
BSAD 320	Accounting for Entrepreneurs
BSAD 400	Production and Operations Management
CITA 405	Project Management
DTEC 325	Electrical Power Generation
RENG 306	Alternative Fuel Vehicles
RREN 303	Fundamentals of GPS/GIS
RREN 305	Renewable Resources Laws & Regulations
RREN 332	Environ. Planning and Nat. Res. Mgmt.
STS 301	Humans vs. Nature