

Proposed Environmental Engineering Degree Program
DRAFT Pending Final Approval

Year One

Fall Semester:

Course	Credit Hours
MATH2250 Calculus I	4
ENGL1101 English Comp. I	3
LAND1500 Design & the Environ.	3
CHEM1211 & L Chemistry I	4
ENGR1120 Engineering Graphics	3

Total Credit Hours 17

Spring Semester:

Course	Credit Hours
MATH2260 Calculus II	4
CHEM1212 & L Chemistry II	4
ENGL1102 English Comp. II	3
ENGR1140 Comp. Methods	2
PHYS1211 & L Physics I	4

Total Credit Hours 17

Year Two

Fall Semester:

Course	Credit Hours
MATH2500 Calculus III	3
BIOL1104 Organismal Biology	3
PHYS1212 & L Physics II	4
ENGR2120 Statics	3
CHEM2211 & L Organic Chemistry	4

Total Credit Hours 17

Spring Semester:

Course	Credit Hours
MATH2700 Differential Equations	3
ENGR 2140 Strength of Materials	3
ENGR3160 Fluid Mechanics	3
PHIL1500 Logic & Critical Thinking	3
ENVE2610 Intro to Environmental Engineering & Sustainability	3

Total Credit Hours 15

Year Three

Fall Semester

Course	Credit Hours
ENVE3210 Energy Analysis I	3
ENVE2320 Environ. Engr-Urban Systems	3
* ENVE3510 Modeling, Statistical Analysis & Uncertainty	4
ENGR3410 Intro. Natural Resources	3
POLS1101 Political Science	3

Total Credit Hours 16

Spring Semester

Course	Credit Hours
ENVE3220 Energy Analysis II	3
ENVE3250 Engineering Ecology	3
ENVE3520 Engineering Economics & Management	3
World Language/Culture Elective	3
ENGR2920 Design Methodology	2
EHSC4490 Environmental Toxicology	3

Total Credit Hours 17

Year Four

Fall Semester

Course	Credit Hours
* ENVE4910 Environ. Engr. Design	2
ENVE Elective I	3
ENVE Elective II	3
ENVE Elective III	3
ENVE Elective IV	3
Social Science Elective	3

Total Credit Hours 17

Spring Semester

Course	Credit Hours
* ENVE4920 Environ Engr. Design	2
ENVE Elective V	3
ENVE Elective VI	3
World Language/Culture Elective	3
HIST2111/2112 American History	3

Total Credit Hours 14

* New courses which will be developed.

3-5-2008

ENVE Electives:

Energy/Water Resources

Elective List A

(Select 1 course from the following list of courses)

ENVE3340 Transport Processes in the Environment

* ENVE4230 Ecosystem Energetics

ENVE4260 Renewable Energy Systems

Elective List B

(Select 2 courses from the following list of courses)

ENGR3420 Soil Mechanics

ENGR3440 Water Management

ENGR4440 Environmental Engineering Unit Operations

ENGR4460 Design of Natural Wastewater Treatment Systems

ENVE3460 Groundwater Hydrology

* ENVE3490 Intro. To Air & Noise Pollution

* ENVE4250 Industrial Ecology

Infrastructure/Planning/Economics

Elective List C

(Select 1 course from the following list of courses)

ENVE4530 Energy & Environmental Policy Analysis

* ENVE4540 Economics of Energy & Sustainable Development

Elective List D

(Select 2 courses from the following list of courses)

ENGR4660 Sustainable Building Design

ENVE4240 Sustainable Energy Systems in a Global Economy

* ENVE4550 Environmental Life Cycle Analysis

ENVE4620 Sustainable Design in Urban Systems

* ENVE4710 GIS for Urban Engineering, Planning & Development

ENVE4720 Urban Infrastructure Planning & Development

Entrance Requirements:

Grade of "C"(2.0) or better in each of the following courses and a 2.5 GPA for this pool of courses:

MATH 2250, MATH 2260; MATH 2500; MATH 2700; PHYS 1211-1211L; PHYS 1212-1212L; BIOL 1104; CHEM 1211-1211L; CHEM 1212-1212L and ENGR 2120. Overall GPA 2.7 for Transfer Students.

*All students must earn a grade of "C" (2.0) or better in the following engineering courses; ENGR 1120, ENGR 1140, ENGR 2120, ENGR 2140, ENGR 3160 and ENVE 2610. Except for those courses requiring a grade of "C" (2.0) or better, a maximum of two ENGR or ENVE prefix courses with grades of "D" (1.0) may be used to satisfy graduation requirements. Competency in a computer programming language is expected and may be satisfied with ENGR 1140.

3/7/08