Course Requirements: Guidelines for Advising

Environmental Systems Graduate Program – Energy Technology and Policy (EtaP) Option

Course requirements for the program include two classes that are common to the Environmental Systems Graduate Program, three courses that are specific to the ETaP option, and at least four additional elective courses that are chosen as a coherent package in an area of interest for the student. Students must complete a minimum of 30 units of coursework to receive a master's degree in Environmental Systems. Each student must also complete a master's project or thesis.

Required Courses

STAT-630: Environmental Systems Data Collection & Analysis (4 units)

SCI-698: Graduate Colloquium in Environmental Systems (1 unit)

ENGR 532: Energy, the Environment, and Society (4 units)

ECON 550: Economics of Energy and Climate Change Policy (4 units)

Either ENGR 533 (Energy and Climate Change, 4 units) or ENGR 535 (Development Technology, 4 units); i.e., students must take one of these 4 unit courses; if they take both, they may count the second one as an elective.

List ENGR 533 or ENGR 535: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In addition, students must take a series of *at least* four approved elective courses at the upper division or graduate level. Students are *strongly encouraged to use the elective courses to create an area of concentration*.  The choice of an area of concentration is made in consultation with each student's academic adviser, and the specifics depend on a combination of the student's background and interests. To count toward the degree, elective courses must meet the following requirements:

1. Must be an upper division (i.e., 300 level or above) or graduate level course
2. Must not be a GE course (i.e., can’t have a “0” as the 2nd number if they are at the 300 or 400 level)
3. Must be at least 3 units (i.e., 1 and 2 unit courses don’t count)
4. Must be selected in consultation with each student’s adviser

List selected elective courses here:

Elective Course #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Elective Course #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Elective Course #3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Elective Course #4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Students are required to complete a master’s thesis or project. The student must work with a committee that consists of three Ph.D. level faculty members. It is sometimes possible to petition to have a committee member from another university or research center, provided that the person has appropriate qualifications (including a Ph.D. or another appropriate terminal academic degree). It is generally appropriate to take at least two thesis units with the committee chair and at least one thesis unit with each other committee member during the course of the degree (exceptions may apply). No more than six thesis units may be applied to the degree.

In general, a thesis involves carrying out original research aimed at answering a research question or testing a hypothesis relevant to one or more academic fields. A project involves carrying out work or analysis aimed at addressing a problem that is of interest to some group or organization. There is no difference between a thesis and project in the level of required rigor.

Master’s Thesis or Project units: Master’s Thesis/Project Chair: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Units: \_\_\_\_\_\_\_\_

Committee Member #1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Units: \_\_\_\_\_\_\_\_

Committee Member #2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Units: \_\_\_\_\_\_\_\_