Energy Environments

Degree Offered
• Master of Science

Admission Requirements
Students admitted to the Davis College and the MS in Energy Environments degree program must:

• Possess a baccalaureate degree from a college or university, have at least a grade point average of 2.75 on a 4.0 scale (or an average of 3.0 or higher for the last sixty credit hours);
• Have an adequate academic aptitude at the graduate level as measured by the Graduate Record Examination (GRE) or the New Medical College Admissions Test (New MCAT);
• Provide three letters of reference from persons acquainted with the applicant’s professional work, experience, or academic background;
• Submit a written statement of 500 words or more indicating the applicant’s goals and objectives relative to receiving a graduate degree;
• International students have the additional requirement to submit a minimum score of 550 on the paper TOEFL examination or 213 on the electronic TOEFL examination if their native language is not English.

Minimum GPA of 3.0 is required in major coursework.

Required Coursework

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSM 650</td>
<td>The Creative Economies</td>
<td>3</td>
</tr>
<tr>
<td>ENLM 500</td>
<td>Advanced Negotiations and Ethics for Energy Land Managers</td>
<td>3</td>
</tr>
<tr>
<td>ENVP 525</td>
<td>Principles of Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>RESM 560</td>
<td>Advanced Energy Project and Program Management</td>
<td>3</td>
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Capstone Experience
Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ANRD 491</td>
<td>Professional Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>ANRD 595</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>ANRD 695</td>
<td>Independent Study</td>
<td></td>
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</tbody>
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Elective Requirements (in consultation with Academic Advisory Committee) **
15

Total Hours
30

* Students that register for three credit hours of professional internship must complete at least 180 hours of paid or voluntary work in a supervised work setting related to their field of study. Students must also submit a synthesis paper to the graduate committee and defend their work in a public forum to complete the capstone requirement.

Students that register for three credit hours of research or independent study must complete a research project. Students must also submit a problem paper to the graduate committee and defend their work in a public forum to complete the capstone requirement. The research experience may lead to completion of a thesis, but a formal thesis is not required for this degree. Completion of a formal thesis would be expected to prolong the time it takes to complete the degree.

** Students will select additional restricted electives across a range of topics in consultation with the student’s Graduate Advisory Committee.

Research, Seminar, Professional Field Experience, and Independent Study credits are limited to 12 total credits combined, and only three credits of each may be included on the graduate plan of study.

Learning Outcomes

Upon graduation, graduates of the MS in Energy Environments will:

• Possess in-depth, advanced knowledge in their discipline.
• Possess broad knowledge of related STEM disciplines.
• Understand and be able to articulate the relationships between energy extraction and use, environmental quality, and public policy within the broad context of sustainable development.
• Be able to develop technical solutions to energy and environmental problems that include the impact of law and public policy.
• Assess the economic realities of technical solutions, addressing such economic factors as market externalities, cost-benefit analysis, and the micro- and macroeconomic implications of the solutions produced.
• Exhibit professional communication skills and the ability to communicate effectively to technical audiences, the general public, the media, and policy makers.
• Adhere to codes of responsible conduct of research and behavior.