Curriculum

All courses offer three semester hours credit.

Transfer Credit

A maximum of four courses (12 semester hours) taken at another regionally accredited institution each with a grade of “B” or better can be applied toward the degree. These courses must be comparable in catalog description to Troy University courses in the Criminal Justice Graduate Program and be approved by the main campus dean/department chair. If the student transfers a “core” or “required course,” he/she is still subject to a written comprehensive exam based on the material presented at Troy University.

Requirements for Admission to Candidacy

To be admitted to candidacy, students must have a 3.0 GPA on all work attempted.

Unconditionally admitted graduate students must apply for admission to candidacy after completing nine semester hours of requirements as outlined for the specific degree program. The Admission to Candidacy form must be completed within the first 18 semester hours of the program. If the Admission to Candidacy form is not completed by the conclusion of 18 semester hours, a hold will be placed on the student’s registration until Admission to Candidacy process is completed.

Degree Requirements

Any student completing the course work with a 3.0 GPA or better, fulfilling candidacy requirements, successfully completing the required comprehensive examinations (for CJ 6610, 6620, 6622 and 6624) and the research requirement (CJ 6650), will be awarded the master’s degree. (If a student makes a “D” or “F” in a core course, the course must be retaken. If a student makes a “D” or “F” in an elective course, the course may be retaken or another elective taken in its place.)

Required Courses (15 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 6610</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6620</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6622</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6624</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6650</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (15 credits)

Select any 15 hours of graduate course work from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 5571</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6621</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6625</td>
<td>3</td>
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<tr>
<td>CJ 6630</td>
<td>3</td>
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<tr>
<td>CJ 6635</td>
<td>3</td>
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<tr>
<td>CJ 6636</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6638</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 30 Hours

OR

Thesis option:
(Note: The Thesis option is available only to on-campus students at the Troy campus.)

Required Courses (as above) 15 hours
Thesis Practicum 3 hours
Thesis 3 hours
Electives 15 hours
Total 36 hours

MASTER OF SCIENCE IN ENVIRONMENTAL AND BIOLOGICAL SCIENCES

The Master of Science Graduate Program in Environmental and Biological Sciences is designed to broaden the student’s perspective and provide skills and knowledge for understanding and solving problems in the environmental and biological sciences. The Program teaches students the direct and indirect economic, social, and political contributions of the environmental and biological sciences. The Program underscores the interdisciplinary and cooperative nature of environmental and biological issues. The Program teaches how to manage conflicts and emphasizes the importance of effectively communicating with the private and public sectors, regulatory agencies, interest groups, and communities. The Program objectives are listed below:

1. To demonstrate the pivotal role of the environmental and biological sciences in understanding and addressing environmental, ecological, medical, agricultural, and political issues;
2. To promote the professional development of students for entry and advancement in the private and public sectors as scientists, educators, administrators, or managers;
3. To provide students with the necessary skills for performing research, reviewing and evaluating regulatory guidelines, and writing professional documents;
4. To foster an understanding and appreciation of the role of values and ethics in research, management, and institutional performance;
To strengthen the academic foundations of students seeking entry into professional schools and into doctoral programs at graduate schools; and
6. To provide teachers with opportunities for advancement and to broaden and update their knowledge in order to enrich the classroom experience of their students

Prerequisite Requirements

Candidates for admission must have a baccalaureate degree, preferably in a technical subject area. Candidates should have completed foundation courses in the biological sciences, one year of general chemistry, and one course in statistics.

Admission Requirements for Master of Science in Environmental and Biological Sciences

To apply for admission to the graduate program in Environmental and Biological Sciences, applicants must submit the following materials:

- Completed Application for Admission to the Graduate School
- Official transcript(s) from undergraduate and other graduate schools
- Official copy of GRE or MAT scores
- Student medical record or health certificate
- Letters (two) of recommendation
- Statement of interest
- Résumé listing professional experience, certifications, and other preparations

Unconditional Admission

Unconditional admission may be granted to students who fulfill the following requirements:

a. Hold a baccalaureate degree from a regionally accredited university with a minimum overall undergraduate grade point average of 2.5 (4.0 scale) or a 3.0 grade point average on the last 30 semester hours
b. Demonstrate an adequate academic background in the sciences that includes natural or biological sciences, general chemistry, and statistics
c. Earn at least 850 on the Graduate Record Examination (GRE) (combined verbal and quantitative) or a score of at least 33 or 385 on the Miller Analogies Test (MAT)

Conditional Admission

Conditional admission may be granted under certain circumstances to applicants who cannot satisfy all unconditional admission requirements to the graduate program. See Conditional Admission requirements in the general regulations section of this catalog. Students with a baccalaureate degree from an unaccredited or otherwise accredited institution should see Unaccredited or Otherwise Accredited Student Admission.

Students with academic deficiencies (course work, GPA, GRE, or MAT scores) may be required to complete additional coursework before being granted unconditional admission to the program.

Transfer Credit

A maximum of 12 semester hours taken at another regionally accredited institution, each with a "B" grade or better, can be applied toward the degree. These courses must be comparable in catalog description to Troy University courses in the Department's graduate program and also be approved by the Department Chair. Non-thesis students who transfer a "core" course are still required to take a written comprehensive exam based on the material presented at Troy University.

Requirements for Admission to Candidacy

Unconditionally admitted graduate students must apply for admission to candidacy within the first eighteen semester hours and complete any additional requirements outlined for the specific degree program. If not completed within the first eighteen hours, a hold will be placed on the student's registration until Degree Plan/Admission to Candidacy process is completed.

To be admitted to candidacy, students must have completed a minimum of 10 semester hours in the Program and have attained a minimum 3.0 GPA on all work attempted, including a minimum grade of 3.0 (4.0 scale) EBS 6691. If the student makes a "D" or "F" in a core course, the course must be retaken. If the student makes a "D" or "F" in an elective course, the course may either be retaken or another elective taken in its place.

Degree Requirements

1. Unconditional Admission
2. Admission to Candidacy
3. Completion of curriculum listed below
4. Successful completion of EBS 6691 with a "B" or better
5. Overall 3.0 GPA
6. Successful completion of the comprehensive examination for non-thesis students or a thesis, including a presentation of a public seminar, for thesis students

A student who successfully completes the requirements listed above will be awarded the master's degree (M.S.) in Environmental and Biological Sciences.

Graduate Assistantships

The Graduate School offers several different types of assistantships and fellowships. Students should check the Graduate School's website (www.troy.edu/graduateschool/index.html) for details about assistantships and fellowships, deadlines, and copies of application forms. Students should send the completed assistantship forms to the Department of Biological and Environmental Sciences, 213 Math-Science Complex (MSCX). Students should also contact a faculty member who would be willing to serve as their graduate thesis adviser before applying for an assistantship.

The Master of Science in Environmental and Biological Science degree is offered as a 30 semester hour plus thesis or 36 semester hour non-thesis option. Both options require ten semester hours of core courses and 20 semester hours of concentration
course options for thesis and 26 semester hours of concentration course options for non-thesis as follows:

**Required Core Courses (10 hours)**
*Courses with separate lectures and labs must be taken together.*
- EBS 6601 3 Environmental and Biological Ethics
- EBS 6630 3 Pollution Science
- EBS L630 1 Pollution Science Lab
- EBS 6691 3 Research Methodology and Experimental Design

**Environmental Sciences Concentration**

**Non-Thesis Option (26 hours)**
Required courses (9 hours):
- EBS 6603 3 Environmental Management
- EBS 6664 3 Restoration Ecology
- EBS 6665 3 Sustainable Development

Electives (17 hours)

**Thesis Option (20 hours minimum)**
- EBS 6695 6 Thesis Research

**Required courses (3 hours)**
Select one course:
- EBS 6603 3 Environmental Management
- EBS 6664 3 Restoration Ecology
- EBS 6665 3 Sustainable Development

Electives (11 hours)

**Biological Sciences Concentration**

**Non-Thesis option (26 hours)**
Required courses (10-11 hours; 7 hours of required courses plus 3-4 hours of required electives):
- Required courses:
  *Courses with separate lectures and labs must be taken together.*
  - EBS 5516 3 Microbial Ecology
  - EBS L516 1 Microbial Ecology Lab
  - EBS 6661 3 Conservation Biology

Required elective course (3-4 hours).

Select one course.
*Courses with separate lectures and labs must be taken together.*
- EBS 5513 3 Limnology
- EBS L513 1 Limnology Lab
- EBS 5521 3 Population Ecology
- EBS L521 1 Population Ecology Lab
- EBS 5530 3 Applied Genetics
- EBS L530 1 Applied Genetics Lab
- EBS 6620 4 Field Protistology
- EBS 6621 3 Environmental Toxicology

Electives (10-11 hours)

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**MASTER OF SCIENCE IN INTERNATIONAL RELATIONS**

World politics have undergone a profound alteration over the past two decades. The collapse of the former Soviet Union, the evolution of the European Union, recent events in the Middle East and Central Asia, as well as the rise of non-state power centers such as al-Qa’ida, clearly demonstrates a significant paradigm shift in international affairs. The Cold War, which dominated global events for nearly five decades, is over. Yet, what replaces the institutions of that era is not altogether clear. What is clear is that the world community is increasingly interdependent, traditional identities and cultural norms are challenged, and new conflicts emerge.

The Master of Science in International Relations (MSIR) degree program is a 12-course, 36-credit-hour curriculum of study designed to provide students the foundation and knowledge needed for understanding the conduct of international relations. Students are encouraged to gain a wide-ranging appreciation for the political, historical, cultural, economic, and geographical factors that affect international relations. This appreciation is accomplished through an interdisciplinary course of instruction that draws upon a variety of resources. In addition, students develop methodological, analytical, and theoretical skills necessary for understanding and evaluating the impact of global and national issues on world events.

The program offers courses covering an array of topical areas such as history, regional studies, comparative government, foreign policy studies, political economy, geography, conflict management, national security, international organization and law, intercultural relations, and developing states.

**Prerequisite Requirements**

Candidates for admission must have a baccalaureate degree in any subject area from a regionally accredited college or university. There are no prerequisite course requirements.

Students with undergraduate degrees in areas not included in the curriculum are encouraged to inquire about the program.