The Master of Science degree in Computer Science is designed to provide advanced study and development for students who have a basic understanding of the concepts and methodologies central to professional success in the field. Objectives of the program are as follows:

1. Provide students with opportunities to refine their skills and core competencies in computer science through the advancement and development of concepts, techniques, and methodologies appropriate in the field.
2. Facilitate the development of advanced skills in an environment which will ensure both a realistic and varied exposure to contemporary information processing problems.
3. Promote the integration and application of cutting edge concepts and approaches in the computer science field.

Admission Requirements

For unconditional admission, students must satisfy the following:

1. A student must have earned a bachelor’s degree in Computer Science (CS) or a related field from a regionally accredited four-year college or university.
2. A student must meet the grade point average and Graduate Record Examination (GRE) or equivalent test score. Requirements as follows:
   - Official transcripts of all academic work.
   - A minimum overall undergraduate grade point average of 2.5 (on a 4.0 scale) or a 3.0 grade point average for the last 27 semester hours (45 quarter hours).
   - A minimum composite score of 800 on the verbal and quantitative portions of the GRE.

Conditional Admission

For those students who cannot satisfy all unconditional admission requirements, conditional admission may be granted under certain circumstances. Individuals admitted on a conditional basis may satisfy the requirements for unconditional admission as follows:

1. Students must have their GRE test scores on file with the admissions office by the completion of the FIRST semester in which they are enrolled in CS courses.
2. Students failing to achieve the minimum composite score of 800 may satisfy the GRE test requirement by successfully completing nine semester hours of graduate CS courses with a minimum grade point average of 3.0.
3. Students not having a 2.5 undergraduate grade point average may satisfy the requirement by the successful completion of nine semester hours of graduate CS courses with a minimum grade point average of 3.0.
4. A student with a bachelor’s degree outside the field of CS may satisfy the bachelor’s degree requirement by completing ALL of the following courses:

   MTH 2215 – Applied Discrete Mathematics
   CS 2244 – Computer Science I
   CS 2260 – Computer Science II
   CS 2261 – Introduction to Computer Science Concepts
   CS 3323 – Data Structures
   CS 3357 – Logical Structures of Computer Design

Additional courses may be required by the CS Graduate Advisor depending on the student’s background. A student must complete all courses with a grade point average of 3.0.

Transfer Credit

A maximum of nine credit hours taken at another regionally accredited university with a grade of “B” or better can be applied to the degree. These courses must be comparable in catalog description to courses in the CS program and must be approved by the Dean of Arts & Sciences or Graduate Adviser, CS Program.
Requirements for Admission to Candidacy

Admission to the program for the M.S. in Computer Science does not constitute official admission to candidacy. Unconditionally admitted graduate students must apply for admission to candidacy within the first eighteen semester hours of graduate coursework 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.

Non-Thesis Option

The proposal for a research paper must be approved by the research supervisor. The research paper must be approved by the supervisor, CS Department Chair, Dean of College of Arts and Sciences and Dean of the Graduate School.

Submission of Thesis or Research Paper

The thesis must be submitted according to Thesis Guidelines. The research paper must be submitted to the department at least two months prior to graduation and must be submitted to the Dean of the Graduate School office at least two weeks prior to the end of the term of graduation. Two approved copies of the research paper are necessary, one of which will be kept by the CS department.

Curriculum

The CS degree curriculum consists of five core required courses and five (non-thesis option) or three (thesis option) elective courses. All courses offer three hours of credit except CS 6625-6626-6627, which offer one to three hours, and CS 6699, which offers one to six hours.

Thesis Option

1. Achieve unconditional admission to the program;
2. Complete 15 SH of graduate-level core courses;
3. Maintain a minimum overall 3.0 GPA; AND

Non-Thesis Option

1. Achieve unconditional admission to the program;
2. Complete 15 SH of graduate-level core courses;
3. Maintain a minimum overall 3.0 GPA; AND
4. Submit an approved proposal for a research paper.

Degree Options

There are two degree options: thesis and non-thesis. In the thesis option, the student must successfully complete and defend a thesis as well as complete other requirements stated below. See Thesis Guidelines for additional information. In the non-thesis option, the student must pass a written comprehensive exam and must successfully complete a research paper.

For both options what follows should be followed by the students during their program of study.

Degree Requirements

The requirements for the degree are admission to candidacy, the successful completion of five graduate-level core courses and three to five elective courses (30 semester hours for the thesis option and 31 semester hours for the non-thesis option) with an overall grade point average of 3.0, and successful completion of a thesis or a paper. The degree requirements for the thesis and non-thesis options are as follows:

Approval Process

Thesis

See Thesis Guidelines.

<table>
<thead>
<tr>
<th>Thesis</th>
<th>Non-Thesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Admission to candidacy;</td>
<td>1. Admission to candidacy;</td>
</tr>
<tr>
<td>2. Complete 30 SH of graduate-level courses to include 6 SH of course CS 6699;</td>
<td>2. Complete 31 SH of graduate-level courses to include 1 SH of course CS 6625;</td>
</tr>
<tr>
<td>3. Maintain a minimum overall 3.0 GPA; AND</td>
<td>3. Maintain a minimum overall 3.0 GPA;</td>
</tr>
<tr>
<td>4. Successfully complete and defend a thesis.</td>
<td>4. Pass the written comprehensive examination; AND</td>
</tr>
<tr>
<td></td>
<td>5. Successfully complete an approved research paper.</td>
</tr>
</tbody>
</table>

Core Courses.................................................. 15 SH

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 5543 – Software Engineering</td>
<td>3 SH</td>
</tr>
<tr>
<td>CS 5545 – Computer Architecture</td>
<td>3 SH</td>
</tr>
<tr>
<td>CS 5549 – Analysis of Algorithms</td>
<td>3 SH</td>
</tr>
<tr>
<td>CS 5547 – Systems Analysis and Design</td>
<td>3 SH</td>
</tr>
<tr>
<td>CS 5550 – Operating System Principles</td>
<td>3 SH</td>
</tr>
</tbody>
</table>

Elective Courses.............................................. 9/15 SH

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 6640 – Data Base Management Concepts</td>
<td>3 SH</td>
</tr>
<tr>
<td>CS 6641 – Society and Information Systems</td>
<td>3 SH</td>
</tr>
<tr>
<td>CS 6643 – Theory and Design of Compilers</td>
<td>3 SH</td>
</tr>
<tr>
<td>CS 6646 – Information Systems for Operations and Management</td>
<td>3 SH</td>
</tr>
</tbody>
</table>

* Also includes a comprehensive examination.
The Master of Science degree in Criminal Justice is designed to broaden and enhance each student’s ability to understand, analyze, and evaluate issues that confront the American criminal justice system. Included in the objectives of the program’s core coursework are (a) to prepare students to understand, analyze, and evaluate the principles and functions of personnel administration in criminal justice applications; (b) to prepare students to understand, analyze, and evaluate trends and developments affecting the field of criminal justice in his/her problem solving; (c) to prepare students to understand, analyze, and evaluate the effectiveness of the American judicial process with respect to its legal basis, organization and management. Specific institutional objectives of the program are as follows:

1. to prepare students to fulfill a need in American society for professional law enforcement personnel and competent criminal justice administrators by providing educational programs that develop each student’s problem solving skills in ways that prepare the student to address the issues that arise in the dynamic and evolving criminal justice field;
2. to develop each student’s ability to synthesize and apply knowledge of the critical theories and concepts in the field of criminal justice in his/her problem solving analysis;
3. to develop each student’s ability to identify and develop alternative solutions to problems that confront the modern criminal justice system based on his/her knowledge of current theories and concepts;
4. to develop each student’s ability to evaluate and appropriately choose solutions to problems that confront the criminal justice system;
5. to develop each student’s ability to effectively communicate the results of his/her analysis.

6. to provide students who seek administrative and managerial positions in the field of criminal justice with the credentials to qualify for those positions;
7. to provide an appropriate program of graduate study for students who are interested in research in the field of criminal justice and in advanced graduate study.

**Prerequisite Requirements**

The minimum requirement for admission to the Master of Science program in Criminal Justice is a baccalaureate degree from a regionally accredited four-year institution. Students who desire to enter this program but do not have a degree in criminal justice, police administration, law enforcement, or corrections may be required to meet other criteria such as additional coursework regarding undergraduate or professional preparation. Significant professional experience may be considered. However, admission to the program does not imply official admission for the degree.

**Admission Requirements For Master of Science in Criminal Justice**

**Unconditional Admission**

Students may be admitted unconditionally if they meet the following requirements:

1. Hold a masters or higher degree from a regionally accredited university. No test score is required. An official transcript showing completion of a master’s or higher degree is required.

OR

2. Hold a baccalaureate degree from a regionally accredited college or 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. All hours attempted in the term in which the 30 semester hours were reached will be used to calculate the grade point average. All transcripts from all colleges or universities attended are required. AND

3. Have an acceptable score on the appropriate entrance exam [GRE 850– (verbal plus quantitative), MAT 385 or 33.]

**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 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 coursework 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.)

Curriculum

All courses offer three semester hours credit.

Required Courses (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 6610</td>
<td>Principles of Administration</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6620</td>
<td>Current Trends in Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6622</td>
<td>Seminar in the Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6624</td>
<td>Court Administration</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6650</td>
<td>Survey of Research Methods in Criminal Justice</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (15 credits)

Select any 15 hours of graduate coursework from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 5571</td>
<td>Probation, Pardons, and Parole</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6621</td>
<td>Current Issues in Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6625</td>
<td>Specialized Study</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6630</td>
<td>Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6635</td>
<td>Community-Based Corrections/Correctional Systems</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6636</td>
<td>Criminological Theory</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6638</td>
<td>Seminar in Civil Liberties Related to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6640</td>
<td>Seminar in Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6644</td>
<td>Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6649</td>
<td>Statistics for Criminal Justice Research</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6652</td>
<td>Seminar in Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6655</td>
<td>Special Topics in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6660</td>
<td>Advanced Readings in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6671</td>
<td>Organizational Theory</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6692</td>
<td>Agency Experience</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6693</td>
<td>Masters Project</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

Electives 15 hours

Thesis courses 6 hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 6694</td>
<td>Thesis Practicum</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6695</td>
<td>Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 36 Hours

MASTER OF SCIENCE IN ENVIRONMENTAL AND BIOLOGICAL SCIENCES

Purpose and Goals

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;
5. 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 course work 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 18 semester hours and complete any additional requirements outlined for the specific degree program. If not completed within the first 18 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) in 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:
Curriculum for M.S. in Environmental and Biological Sciences

Required Core Courses (10 sh)
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 Science Concentration
Select one option below:

Non-Thesis Option: (26 Semester Hours)
Required courses (9 sh)
EBS 6603 3 Environmental Management
EBS 6664 3 Restoration Ecology
EBS 6665 3 Sustainable Development
Adviser Approved Electives courses: (17 sh)

OR

Thesis Option (20 Semester Hours minimum)
EBS 6695 6 Thesis Research
Required courses : (3 sh) Select one course:
EBS 6603 3 Environmental Management
EBS 6664 3 Restoration Ecology
EBS 6665 3 Sustainable Development
Adviser Approved Electives: (11 sh)

Biological Sciences Concentration
Select one option below:

Non-Thesis Option : (26 Semester Hours)
Required courses: (7 sh)
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
EBS 6665 3 Environmental Toxicology
Adviser Approved Electives Course(s): (3-4 sh)
Select one course:
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
Adviser Approved Electives: (15 –16 sh)

OR

Thesis Option (20 Semester Hours)
Required Thesis Research: (6 sh)
EBS 6695 6 Thesis Research
Required Elective courses (3-4 hours)
Select one course:
EBS 5516 3 Microbial Ecology
EBS L516 1 Microbial Ecology Lab
EBS 6661 3 Conservation Biology
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
Adviser Approved Elective Courses: (10-11 sh)

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 demonstrate 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.
Graduates of the Master of Science in International Relations program include individuals with undergraduate degrees in the social sciences as well as in such areas as English, foreign language, engineering, chemistry, mathematics, psychology, education, and business administration.

Admission Requirements for the Master of Science in International Relations Degree

Unconditional Admission

Students may be admitted unconditionally if they meet the following requirements:

1. Hold a master’s or higher degree from a regionally accredited university. No test score is required. An official transcript showing completion of a master’s or higher degree is required.

OR

2. Hold a baccalaureate degree from a regionally accredited college or 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. All hours attempted in the term in which the 30 semester hours were reached will be used to calculate the grade point average. All transcripts from all colleges or universities attended are required.

AND

3. Have an acceptable score on the appropriate entrance exam [GRE 920 (verbal plus quantitative), MAT 396, GMAT 490].

Conditional Admission

Conditional admission may be granted under certain circumstances to applicants who cannot satisfy all unconditional admission requirements to a graduate program. See conditional admission requirements in the general regulations section of this Catalog.

Transfer Credit

A maximum of four courses (12 semester credit 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 MSIR program and must be approved by the Dean of Arts and Sciences or Chair of the Department of Political Science.

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. 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 be retaken or another elective taken in its place.

Degree Requirements

1. Unconditional admission
2. Overall 3.0 GPA
3. Completion of the curriculum listed below
4. Successful completion of comprehensive examination or a thesis
5. Successful completion (“B” or better) of program research requirement – IR 6601
6. Admission to candidacy

Curriculum

All courses offer three semester hours credit. The MSIR curriculum of study consists of three integral components.

I. Four core required courses
II. The selection and completion of one program concentration
III. The successful completion of a comprehensive examination OR the preparation and defense of a Master’s Thesis

Required Core Courses: (12 sh)

All MSIR students must take these four courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR 5551</td>
<td>3</td>
<td>Survey of International Relations</td>
</tr>
<tr>
<td>IR 6601</td>
<td>3</td>
<td>Research Methods in International Relations</td>
</tr>
<tr>
<td>IR 6620</td>
<td>3</td>
<td>International Political Economy</td>
</tr>
<tr>
<td>IR 6652</td>
<td>3</td>
<td>Theory and Ideology of International Relations</td>
</tr>
</tbody>
</table>

MSIR Concentration Option Courses:

Students must choose ONE of the following concentrations:

- Global Studies (24 sh)
- National Security Affairs (24 sh)
- Regional Affairs (24 sh)

Global Studies Concentration: 24 Semester Hours

Students may choose any eight of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 5506</td>
<td>3</td>
<td>Urbanism</td>
</tr>
<tr>
<td>GEO 5511</td>
<td>3</td>
<td>Demography</td>
</tr>
<tr>
<td>GEO 5526</td>
<td>3</td>
<td>Geography of the Russian Realm</td>
</tr>
<tr>
<td>GEO 6624</td>
<td>3</td>
<td>Geographic Characteristics of the Developing Realm</td>
</tr>
<tr>
<td>HIS 5503</td>
<td>3</td>
<td>Contemporary Europe</td>
</tr>
<tr>
<td>HIS 5504</td>
<td>3</td>
<td>Military History of the United States</td>
</tr>
<tr>
<td>HIS 5510</td>
<td>3</td>
<td>England since 1688</td>
</tr>
<tr>
<td>HIS 5515</td>
<td>3</td>
<td>Contemporary America, 1945 to Present</td>
</tr>
<tr>
<td>HIS 5523</td>
<td>3</td>
<td>U.S. Foreign Policy to 1920</td>
</tr>
<tr>
<td>HIS 5532</td>
<td>3</td>
<td>Russia to 1861</td>
</tr>
</tbody>
</table>
HIS 5533 3 Russia since 1861
HIS 5545 3 Modern Germany
HIS 5551 3 The Far East
HIS 5583 3 Latin American States
HIS 6614 3 Contemporary Japan
HIS 6615 3 Seminar in Latin American History
IR 5502 3 International Political Geography
IR 5524 3 Contemporary American Foreign Policy
IR 5533 3 Comparative Government
IR 5552 3 International Law
IR 5570 3 Politics of Southeast Asia
IR 6600 3 Selected Topics in International Relations
IR 6602 3 Geoeconomic Studies
IR 6610 3 International Organizations
IR 6612 3 Comparative Public Policy
IR 6625,
6626,
6627 3 Specialized Study in International Relations
IR 6629,
6630 3 Seminar in International Relations
IR 6631 3 Intercultural Relations
IR 6633 3 Developed and Developing Nations
IR 6634 3 Tradition, Revolution, and Change
IR 6635 3 National Security Policy
IR 6640 3 Government and Politics of Developing Nations
IR 6641 3 Latin America in World Affairs
IR 6642 3 Russia and Eastern Europe
IR 6643 3 Middle East in World Affairs
IR 6645 3 Asia in World Affairs
IR 6647 3 Western Europe in World Affairs
IR 6648 3 Sub-Saharan Africa in World Affairs
IR 6653 3 Political Psychology
IR 6654 3 Media, Technology, and International Politics
IR 6655 3 International Conflict Management
IR 6656 3 International Power and Influence
IR 6660 3 Military Strategy and International Relations
IR 6665 3 Readings in International Relations
IR 6668 3 Thesis
IR 6669 3 Thesis
IR 6670 3 United Kingdom in World Affairs
IR 6672 3 Germany in World Affairs
IR 6675 3 Central America in World Affairs
IR 6676 3 Japan in World Affairs
IR 6677 3 China in World Affairs
IR 6681 3 Tribalism and Colonialism in Africa
IR 6685 3 Terrorism and Political Violence
IR 6686 3 Drug Politics in the Americas
IR 6687 3 Free Trade and Economic Integration in the Americas
IR 6688 3 Islamic Fundamentalism
PA 6610 3 Foundations of Public Administration
PA 6612 3 Comparative Public Administration

National Security Affairs Concentration: 24 Semester Hours
Students must choose any four of the following courses: (12sh)
HIS 5504 3 Military History of the United States
IR 5524 3 Contemporary American Foreign Policy
IR 5552 3 International Law
IR 6602 3 Geoeconomic Studies
IR 6635 3 National Security Policy
IR 6660 3 Military Strategy and International Relations
IR 6685 3 Terrorism and Political Violence

Approved Elective Courses: (12 sh)
Students must choose four courses from the remaining electives listed for the Global Studies Concentration.

Regional Affairs Concentration: 24 Semester Hours
Students must take each of the following courses: (9 sh)
IR 5533 3 Comparative Government
IR 6610 3 International Organizations
IR 6631 3 Intercultural Relations

Concentration Relevant Electives Courses: (9 sh)
Students must choose three courses from one of the following regional groups:

Latin America
HIS 5583 3 Latin American States
HIS 6615 3 Seminar in Latin American History
IR 6640 3 Government and Politics of Developing Nations
IR 6641 3 Latin America in World Affairs
IR 6675 3 Japan in World Affairs
IR 6676 3 Japan in World Affairs
IR 6677 3 China in World Affairs
IR 6678 3 Free Trade and Economic Integration in the Americas

Europe
GEO 5526 3 Geography of the Russian Realm
HIS 5503 3 Contemporary Europe
HIS 5510 3 Modern England
HIS 5545 3 Modern Germany
IR 6642 3 Russia and Eastern Europe in World Affairs
IR 6647 3 Western Europe in World Affairs
IR 6670 3 United Kingdom in World Affairs
IR 6672 3 Germany in World Affairs

Asia
GEO 5526 3 Geography of the Russian Realm
HIS 5551 3 The Far East
HIS 6614 3 Contemporary Japan
IR 6640 3 Government and Politics of Developing Nations
IR 6645 3 Asia in World Affairs
IR 6676 3 Japan in World Affairs
IR 6677 3 China in World Affairs

Approved Electives Courses: (6 sh)
Students must choose two courses from the remaining electives listed for the Global Studies Concentration.
The third component of the MSIR degree program is the successful completion of ONE of the following options:

1. **Comprehensive Examination** — Students choosing this option must successfully complete a six-hour comprehensive examination, typically after all course work is completed or during the last term that they are registered for course work. Comprehensive examinations are given each term. Examination questions are developed by the MSIR faculty and approved by the Chair. Students must pass by successfully demonstrating the ability to integrate and synthesize information obtained from the course work. The comprehensive examination is graded by a minimum of two full-time and selected part-time faculty and submitted to the College of Arts and Sciences for review. Troy University faculty and staff administer comprehensive examinations.

2. **Thesis** — Students choosing the thesis option must register for IR 6668 (3 credit hours) and IR 6669 (3 credit hours) as their last two courses in the program. They must then successfully research, write, and defend a thesis. This process involves directed research in selected areas of international relations, based on the student’s proposal, related to the student’s needs, with the advice and approval of a thesis adviser and a faculty reader, and culminating in a substantive research paper of appropriate depth and scholarship. Students will receive no letter grade for the two thesis courses, only a Pass or a Fail. Students completing this option are not required to take the Comprehensive Examination.

*Note: Thesis option is not available to eCampus students.*

Program changes from the Comprehensive Examination Option to the Thesis Option are not permitted after attempting the Comprehensive Examination.

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**MASTER OF PUBLIC ADMINISTRATION**

**Mission Statement**

The mission of the Troy University MPA program is to develop professional competency and leadership in individuals associated with public and nonprofit sectors by providing quality graduate professional education through a standardized curriculum and a network of campuses utilizing traditional, nontraditional, and emerging electronic formats.

The MPA degree is a 12-course, 36-credit-hour curriculum of study. Students with less than one year of work experience will complete an additional three-hour internship course for a total of 39 credit hours. Students may take courses as pre-service, in-service, full-time, and part-time students and through eCampus. The MPA degree program is offered at Global Campus sites throughout the United States, through online courses, and at the Troy campus.

**Admission Requirements**

To apply for admission to the Master of Public Administration program, applicants must submit the following materials to the Admissions Office at least one full term/semester before enrollment.

1. Completed Application for Admission to the Graduate School.
2. Official transcript(s) from all universities attended;
3. Official copy of GRE or MAT or GMAT scores;
4. A letter of recommendation that addresses the applicant’s good potential for success in professional graduate studies and public service
5. A 500 word essay addressing the applicant’s professional goals, readiness, and potential for completing the MPA program; and
6. A resume listing professional experience, certifications, and other preparation.

All applicants for the Troy University MPA program must submit their application for admission at least one full term/semester before enrollment. No MPA student is allowed to register for MPA courses without formal admission to the MPA program.

**Unconditional Admission**

Applicants may be admitted unconditionally if they meet the following requirements:

1. Hold a masters or higher degree from a regionally accredited university. Applicants must submit the materials listed in Admission Requirements for Master of Public Administration with the exception of the official copy of GRE or MAT or GMAT scores.

OR

2. Hold a baccalaureate degree from a regionally accredited college 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. All hours attempted in the term in which the 30 semester hours were reached are used to calculate the grade point average AND Have an acceptable score on the appropriate entrance exam: GRE 920 (verbal plus quantitative), MAT 400, or GMAT 490.

**Conditional Admission**

Upon recommendation by the MPA Admissions Committee and approval by the designated MPA Program Director’s representative, conditional admission may be granted under certain circumstances to applicants who cannot satisfy all unconditional admission requirements. See also conditional admission requirements in the General Regulations section of this Catalog.

**Transfer Credit**

A maximum of 12 credit hours taken at another regionally accredited university with a grade of “B” or better can be applied to the degree. These courses must be comparable in catalog description to courses in the MPA program and must be approved by the Dean of Arts and Sciences or the Director of the MPA Program. Professional Military Education (PME) hours will not be accepted as transfer credits for Public Administration core courses. However, approved PME courses may be used as transfer credit for elective courses in the Public Administration Concentration. For more information, please consult with your adviser.

**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.

To be admitted to candidacy, students must have a 3.0 GPA on all work attempted. If the student makes a “D” or “F” in a core course, the core course must be retaken. If the student makes a “D” or “F” in an elective course, the elective course may be re-taken or another elective taken in its place.

Students with less than one year work experience in a para-professional, professional, technical, or supervisory position are required to complete PA 6694, Internship, for an additional three credit hours to the 36-hour program. The Internship cannot be used to satisfy an elective or core course requirement.

Degree Requirements

1. Unconditional Admission
2. Overall 3.0 GPA
3. Admission to candidacy
4. Successful completion of PA6601 Research Methods in Public Administration with a grade of “B” or better
5. Successful completion of PA6699, Capstone in Public Administration, with a grade of “B” or better
6. Completion of MPA Degree curriculum

Curriculum

The MPA degree curriculum consists of 12 courses including nine core courses and three elective courses from one concentration. All courses offer three hours of credit except PA 6660, which offers one to three hours.

Required Core Courses : (27 SH)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 6601</td>
<td>Research Methods in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PA 6610</td>
<td>Foundations of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PA 6620</td>
<td>Theory of Organizations</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PA 6646</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PA 6622</td>
<td>Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>PA 6624</td>
<td>Public Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PA 6650</td>
<td>Governmental Budgeting and Financial Manage</td>
<td>3</td>
</tr>
<tr>
<td>PA 6699</td>
<td>Capstone in Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following courses*: (3 SH)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 6602</td>
<td>Quantitative Methods in Public Management</td>
<td>3</td>
</tr>
<tr>
<td>PA 6603</td>
<td>Economics for Public Management</td>
<td>3</td>
</tr>
<tr>
<td>PA 6631</td>
<td>Program Evaluation</td>
<td>3</td>
</tr>
</tbody>
</table>

*Students in Nonprofit Management concentration must take PA 6631 Program Evaluation (3) as their Tier II course.

Select one of the following courses: (3 SH)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 6640</td>
<td>Intergovernmental Relations</td>
<td>3</td>
</tr>
<tr>
<td>PA 6644</td>
<td>Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>PA 6674</td>
<td>Ethics in Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentrations (9 hours)

Students must select one of the following concentrations and take three courses from one of the following concentrations:

- Education
- Environmental Management
- Government Contracting
- Healthcare Administration
- Justice Administration
- National Security Affairs
- Nonprofit Management
- Public Human Resource Management
- Public Management

Concentrations

Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 6606</td>
<td>Current and Emerging Instructional</td>
<td>3</td>
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<tr>
<td></td>
<td>Technologies</td>
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Environmental Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBS 6601</td>
<td>Environmental and Biological Ethics</td>
<td>3</td>
</tr>
<tr>
<td>EBS 6603</td>
<td>Environmental Management</td>
<td>3</td>
</tr>
<tr>
<td>EBS 6605</td>
<td>Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>EBS 6611</td>
<td>Environmental Impact Studies and Risk</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management</td>
<td></td>
</tr>
<tr>
<td>EBS 6612</td>
<td>Environmental Law, Permitting, and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Regulatory Compliance</td>
<td></td>
</tr>
<tr>
<td>EBS 6615</td>
<td>Environmental Negotiations and Conflict</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Resolution</td>
<td></td>
</tr>
<tr>
<td>EBS 6623</td>
<td>Land Use Planning</td>
<td>3</td>
</tr>
<tr>
<td>EBS 6637</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>EBS 6665</td>
<td>Sustainable Development</td>
<td>3</td>
</tr>
<tr>
<td>EBS/HIS 5550</td>
<td>Sustainable Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Environment History</td>
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</tr>
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</table>

Government Contracting

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>PA 6645</td>
<td>Managing Government Contracts</td>
<td>3</td>
</tr>
<tr>
<td>PA 6647</td>
<td>Advanced Contract Administration</td>
<td>3</td>
</tr>
<tr>
<td>PA 6648</td>
<td>Contract Negotiation</td>
<td>3</td>
</tr>
<tr>
<td>PA 6649</td>
<td>Government Contract Law</td>
<td>3</td>
</tr>
<tr>
<td>PA 6668</td>
<td>Grant Management for Public and Non-</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>profit Organizations</td>
<td></td>
</tr>
</tbody>
</table>

Healthcare Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 6680</td>
<td>Health Services Administration and Policy</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6681</td>
<td>Legal and Social Issues in Health Administration</td>
<td>3</td>
</tr>
</tbody>
</table>
HSA 6682 3 Healthcare Planning and Management
HSA 6683 3 Healthcare Economics
HSA 6684 3 Managed Care: Origins, Organizations and Operations
PA 6665 3 Leadership in Public Administration

Justice Administration
CJ 6620 3 Current Trends in Criminal Law
CJ 6622 3 Seminar in the Administration of Justice
CJ 6624 3 Court Administration
CJ 6630 3 Juvenile Justice
CJ 6640 3 Seminar in Law Enforcement
CJ 6652 3 Seminar in Corrections
CJ 6671 3 Organization Theory

National Security Affairs
IR 5524 3 Contemporary American Foreign Policy
IR 5551 3 Survey of International Relations
IR 5552 3 International Law
IR 6602 3 Geostategic Studies
IR 6610 3 International Organizations
IR 6620 3 International Political Economy
IR 6630 3 Seminar in International Relations
IR 6635 3 National Security Policy
IR 6660 3 Military Strategy and International Relations

Nonprofit Management*
PA 6630 3 Strategic Planning
PA 6631 3 Program Evaluation
PA 6666 3 Foundations of Nonprofit Organizations
PA 6667 3 Executive Leadership in Nonprofit Organizations
PA 6668 3 Grant Management for Public and Nonprofit Organizations
PA 6669 3 Nonprofit Financial Management

* Students in Nonprofit Management must take PA 6631 as their Tier II course.

Public Human Resource Management
HRM 6601 3 Legal Environment of Employment Decisions
HRM 6604 3 Labor Law
HRM 6619 3 Seminar in Human Resources Administration
HRM 6622 3 Workforce Planning and Staffing
HRM 6623 3 Training and Development of Human Resources
HRM 6632 3 Compensation and Benefits

Public Management
PA 6602 3 Quantitative Methods in Public Management
PA 6603 3 Economics for Public Management

PA 6620 3 Theory of Organizations
PA 6630 3 Strategic Planning
PA 6631 3 Program Evaluation
PA 6640 3 Intergovernmental Relations
PA 6644 3 Administrative Law
PA 6645 3 Managing Government Contracts
PA 6646 3 Organizational Behavior
PA 6665 3 Leadership in Public Administration
PA 6668 3 Grant Management for Public and Nonprofit Organizations
PA 6674 3 Ethics in Public Administration
PA 6679 3 Computers and Government Management Information Systems
PA 66xx 3 Approved Adviser elective

Concentration Courses
PA 6625 Specialized Study in Public Administration or PA 6660 Readings in Public Administration with the prior approval by the MPA Director or faculty adviser, may be utilized in any concentration. In combination, these courses may not be used for more than six total credit hours. A course completed for one concentration cannot be used for another concentration.

Cross-listings applicable to the Master of Public Administration Degree Program only from other courses listed in this Catalog:

PA 6601 BUS 6610 CJ 6650 IR 6601
PA 6602 MBA 6640
PA 6620 CJ 6671
PA 6644 CJ 6644
PA 6646 MGT 6671
PA 6679 IS 6679

Graduate Certificate in Government Contracting

The Graduate Certificate in Government Contracting requires the following four courses:

PA 6645 3 Managing Government Contracts
PA 6647 3 Advanced Contract Administration
PA 6648 3 Contract Negotiation
PA 6649 3 Government Contract Law

All Certificate students must be admitted to the Graduate School in order to qualify for the Certificate. See Graduate Admissions.

Admitted MPA students may qualify for the Certificate by completing the four required courses and maintain an overall 3.0 grade point average or better in order to meet concentration requirement. Students are limited to a total of six semester hours of these courses under the provisions of post-master’s admission, or under special admission (non-degree matriculate).

Students who wish to be issued a certificate must submit the following to their home campus:
- Certification Intent
- Certificate Plan and Progress Record
- Copy of student transcript
# College of Arts and Sciences

**Troy University**

**Master of Science in Computer Science**

**Graduate Degree Plan and Progress Record**

**Application for Admission to Candidacy**

**30-31 Semester Hour Program**

---

**Copy of transcript must be attached. May not use "Student Academic Credits" or "Academic Evaluations" report.**

**DEGREE REQUIREMENTS:**

1. GRE, or equivalent exam, test scores submitted
2. Official transcript of all academic work
3. Unconditional Admission
4. 30/31 semester hours of credit (30 for thesis option and 31 for non-thesis option)
5. Meet residency requirements
6. No more than two grades below "B".
7. Overall GPA of 3.0
8. Completion of research requirement with a "B" or better
9. All credit earned within 5 years of graduation
10. Admission to Candidacy
11. Successfully complete comprehensive exam/thesis (Refer GNT)
12. Intent to graduate filed

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**Prerequisite Courses for a Bachelor’s degree outside of the field of Computer Science:**

<table>
<thead>
<tr>
<th>COURSE NO</th>
<th>TITLE</th>
<th>HRS</th>
<th>GRADE</th>
<th>TERM/yr</th>
<th>TRANSFER CREDIT</th>
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<tbody>
<tr>
<td>MTH 2215</td>
<td>Applied Discrete Mathematics</td>
<td></td>
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<tr>
<td>CS 2244</td>
<td>Computer Sciences I</td>
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<tr>
<td>CS 2260</td>
<td>Intro to CS Concepts</td>
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<tr>
<td>CS 2261</td>
<td>Foundations of Computer Science Concepts</td>
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<tr>
<td>CS 3325</td>
<td>Data Structures</td>
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<tr>
<td>CS 3357</td>
<td>Logical Structures of Computer Design</td>
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**REQUIRED CORE COURSES – 15 Semester Hours**

<table>
<thead>
<tr>
<th>COURSE NO</th>
<th>TITLE</th>
<th>HRS</th>
<th>GRADE</th>
<th>TERM/yr</th>
<th>TRANSFER CREDIT</th>
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<tbody>
<tr>
<td>CS 5545</td>
<td>Software Engineering</td>
<td>3</td>
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<tr>
<td>CS 5560</td>
<td>Computer Architecture</td>
<td>3</td>
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<tr>
<td>CS 5577</td>
<td>Applied Systems Analysis</td>
<td>3</td>
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<tr>
<td>CS 5579</td>
<td>Analysis of Algorithms</td>
<td>3</td>
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<tr>
<td>CS 5580</td>
<td>Operating System Principles</td>
<td>3</td>
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**SELECT (15-16 SEMESTER HOURS)**

<table>
<thead>
<tr>
<th>COURSE NO</th>
<th>TITLE</th>
<th>HRS</th>
<th>GRADE</th>
<th>TERM/yr</th>
<th>TRANSFER CREDIT</th>
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<tbody>
<tr>
<td>CS 6625/6627</td>
<td>Special Study in CS</td>
<td>1-3</td>
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<tr>
<td>CS 6640</td>
<td>Data Base Management Concepts</td>
<td>3</td>
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<td></td>
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<tr>
<td>CS 6641</td>
<td>Society and Information Systems</td>
<td></td>
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<tr>
<td>CS 6643</td>
<td>Theory and Design of Compilers</td>
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<tr>
<td>CS 6645</td>
<td>Information Systems for Operations and Management</td>
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<tr>
<td>CS 6647</td>
<td>Simulation and Modeling</td>
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<td>CS 6648</td>
<td>Operations Research</td>
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<tr>
<td>CS 6649</td>
<td>Special Topics in Computer and Information Science</td>
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<td>CS 6650</td>
<td>Distributed Systems Principles</td>
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<td>CS 6651</td>
<td>Artificial Intelligence</td>
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<td>CS 6652</td>
<td>XML Technology Principles</td>
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<td>Topics in Software Security and Reliability</td>
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<td>CS 6654</td>
<td>Topics in Software Engineering</td>
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<tr>
<td>CS 6655</td>
<td>Digital Logic Design-Principles and Pracitce with Emphasis on Testable Sequential Circuits</td>
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<td>CS 6656</td>
<td>Design and Testing of Reliable Digital Systems</td>
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<td>CS 6699</td>
<td>Research and Thesis</td>
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---

**Other Electives (Approved by Advisor. 9 Semester Hours)**

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**ITEMS TO BE Discussed:**

1. One term limit to have transcripts and test scores on file
2. Temporary, Conditional, and Unconditional Admission
3. Availability of faculty for academic advising
4. Petition for transfer credit once unconditionally admitted
5. Class Attendance
6. Drop and Withdrawal procedures, deadlines and consequences
7. Petition for an incomplete grade
8. Student participation in course and Program Evaluation
9. Other

---

**Progress**

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Effective Fall 2006

STUDENT ACKNOWLEDGEMENT: I have read the current year’s Graduate Catalog and acknowledge the contents and requirements of the above program. I have received academic advising from my Faculty Advisor.

<table>
<thead>
<tr>
<th>Student’s Signature</th>
<th>Date</th>
<th>Faculty Advisor</th>
<th>Date</th>
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</table>

STUDENT ACKNOWLEDGEMENT: I hereby apply for Admission to Candidacy.

<table>
<thead>
<tr>
<th>Student’s Signature</th>
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<table>
<thead>
<tr>
<th>Advisor</th>
<th>Date</th>
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APPROVED: Chair/Associate Dean or Dean

CANDIDACY APPROVED: Dean, Graduate School

Distribution: Gold – Student
Pink – Campus/Branch file
All other (Green, Yellow): UC
Original - Official File

Revised 4-02-07
TROY Publications 384-123
Effective Fall 2006

TROY UNIVERSITY
Graduate Degree Plan and Progress Record
Application for Admission to Candidacy
30 Semester Hour Program

Name: ___________________________ Student ID #: ___________________________ Campus: ___________________________

Address: ___________________________ Email: ___________________________

Copy of transcript must be attached. May not use "Student Academic Credits" or "Academic Evaluation" report.

DEGREE REQUIREMENTS:
1. GRE, or equivalent exam, test scores submitted
2. Official transcript of all academic work
3. Unconditional Admission
4. 54 Semester hours of credit
5. Meet residency requirements
6. No more than two grades below "B"
7. Overall GPA of 3.0
8. Completion of research requirement with a "B" or better
9. All credit earned within 8 years of graduation
10. Admission to Candidacy
11. Successfully complete comprehensive exams
12. Intent to Graduate filed

REQUIRED CORE COURSES – 15 Semester Hours

<table>
<thead>
<tr>
<th>COURSE NO</th>
<th>TITLE</th>
<th>HRS</th>
<th>GRADE</th>
<th>TERM/yr</th>
<th>TRANSFER CREDIT</th>
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<tr>
<td>CJ 6610</td>
<td>Principles of Administration</td>
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<td>CJ 6650</td>
<td>Current Trends in Criminal Law</td>
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<td>CJ 6624</td>
<td>Court Administration</td>
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<td>CJ 6650</td>
<td>Survey of Research Methods in Criminal Justice</td>
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ELECTIVES: 15 Semester hours


ITEMS TO BE DISCUSSED:
1. One term limit to have transcript(s) and test scores on file
2. Temporary, Conditional, and Unconditional Admission
3. Availability for academic advising
4. Petition for transfer credit once unconditionally admitted
5. Class Attendance
6. Drop and Withdrawal procedures, deadlines and consequences
7. Petition for an Incomplete grade
8. Student participation in course and Program Evaluation
9. Comprehensive Examination Requirements

STUDENT ACKNOWLEDGEMENT: I have read the current year’s Graduate Catalog and acknowledge the contents and requirements of the above program. I have received academic advising from my Faculty Advisor.

Student’s Signature: ___________________________ Date: ___________________________

Faculty Advisor: ___________________________ Date: ___________________________

STUDENT ACKNOWLEDGEMENT: I hereby apply for Admission to Candidacy.

Student’s Signature: ___________________________ Date: ___________________________

Advisor: ___________________________ Date: ___________________________

Distribution: Gold - Student
- Pink – Campus/Noends file
- All others - (Green, Yellow) UC
- Original – Official File

Revised 8-1-06
TROY Publication 384-124
TROY UNIVERSITY
APPLICATION FOR ADMISSION TO CANDIDACY
MASTER OF SCIENCE:
ENVIRONMENTAL AND BIOLOGICAL SCIENCES (EBS)
BIOLOGICAL SCIENCES CONCENTRATION

Check One:  ___ VA Checklist  ___ Admission to Candidacy

Use your approved checklist and/or the Graduate Catalog as a guide to complete the form. Forward to your adviser, the Chair of EBS, the Dean of the College of Arts and Sciences, and the Dean of the Graduate School for approval. INFORMATION MUST BE TYPED AND AN UNOFFICIAL COPY OF YOUR TRANSCRIPT ATTACHED.

Name: ____________________________
Address: ____________________________
Street (Apt. No.): ____________________________
City: ____________________________ State: ____________________________ Zip Code: ____________________________

DEGREE REQUIREMENTS:
1. GRE, or equivalent, test scores submitted.
2. Unconditional Admission
3. 18 semester hours of Troy University credit.
4. No more than two grades below "B".
5. Overall GPA of 3.0
6. Minimum grade of "B" in EBS/BIO 6691.
7. All graduate credit earned within 8 years
8. Completion of 36 non-thesis hours or 30 thesis hours outlined below
9. Intent to Graduate form filed
10. Admission to Candidacy form filed
11. Pass comprehensive exam or thesis defense

Semester hour requirements (check one):  Non-thesis Option (36 hours)  ___ Thesis Option (30 Hours)  ___

Deficiencies

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course#</th>
<th>Course Title (print or type)</th>
<th>Credits</th>
<th>Grade</th>
<th>Semester/Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBS/BIO</td>
<td>6691C</td>
<td>Environmental and Biological Ethics</td>
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<td>EBS/BIO</td>
<td>6630C</td>
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<tr>
<td>EBS/BIO</td>
<td>6691C</td>
<td>Research Methodology and Experimental Design</td>
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Concentration Courses (7 Semester Hours)

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<th>Semester/Year</th>
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<td>5516C</td>
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<td>6661C</td>
<td>Conservation Biology</td>
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Electives Approved by the Program Advisory Committee (Non-thesis option: 19 Semester Hours, Thesis option: 7 Semester Hours)

<table>
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<tr>
<th>Prefix</th>
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Thesis Option (6 Semester Hours)

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<th>Semester/Year</th>
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<td>EBS/BIO</td>
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<td>6695C</td>
<td>Thesis Research</td>
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Student's Signature: ____________________________ Date: ____________________________
Approved: Chair, Biological Sciences Date: ____________________________
Approved: Dean, College of Arts and Sciences Date: ____________________________
Approved: Dean, Graduate School Date: ____________________________

Distribution:
White - Graduate School
Yellow - Student
Green - Records
Pink - Biological Sciences
Gold - Advisor

Troy University 384-166
TROY UNIVERSITY
APPLICATION FOR ADMISSION TO CANDIDACY
MASTER OF SCIENCE
ENVIRONMENTAL AND BIOLOGICAL SCIENCES (EBS)
ENVIRONMENTAL SCIENCES CONCENTRATION

Check One: ___ VA Checklist ___ Admission to Candidacy

Use your approved checklist and/or the Graduate Catalog as a guide to complete the form. Forward to your adviser, the Chair of EBS, the Dean of the College of Arts and Sciences, and the Dean of the Graduate School for approval. INFORMATION MUST BE TYPED AND AN UNOFFICIAL COPY OF YOUR TRANSCRIPT ATTACHED.

Name: __________________________
Address: _________________________
        Last                     First                      Middle                      Student ID Number
        Street (Apt. No.)        City                        State                        Zip Code

DEGREE REQUIREMENTS:
1. GRE, or equivalent, test scores submitted.
2. Unconditional Admission
3. 18 semester hours of Troy University credit.
4. No more than two grades below "B" in EBS/BIO 6691.
5. Overall GPA of 3.0
6. Minimum grade of "B" in EBS/BIO 6691.
7. All graduate credit earned within 8 years
8. Completion of 36 non-thesis hours or 30 thesis hours outlined below
9. Intent to Graduate form filed
10. Admission to Candidacy form filed
11. Pass comprehensive exam or thesis defense

Semester hour requirements (check one): Non-thesis Option (36 hours) ___ Thesis Option (30 Hours) ___

Deficiencies

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course#</th>
<th>Course Title (print or type)</th>
<th>Credits</th>
<th>Grade</th>
<th>Semester/Year</th>
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Required Core Courses (10 Semester Hours)

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<th>Semester/Year</th>
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<td>Pollution Science</td>
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<td>EBS/BIO</td>
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<td>Pollution Science Laboratory</td>
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<td>EBS/BIO</td>
<td>6691</td>
<td>Research Methodology and Experimental Design</td>
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Concentration Courses (9 Semester Hours)

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<th>Semester/Year</th>
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<td>Environmental Management</td>
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<td>EBS/BIO</td>
<td>6664</td>
<td>Restoration Ecotology</td>
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<td>EBS/BIO</td>
<td>6665</td>
<td>Sustainable Development</td>
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Electives Approved by the Program Advisory Committee (Non-thesis option: 17 Semester Hours; Thesis option: 6 Semester Hours)

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Thesis Option (6 Semester Hours)

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</table>

Student's Signature: __________________________ Date: __________
Approved: Chair, Biological Sciences Date: __________
Approved: Dean, College of Arts and Sciences Date: __________
Approved: Dean, Graduate School Date: __________

Distribution:
White-Graduate School
Yellow-Student
Green-Records
Pink-Biological Sciences
Gold-Advisor

Troy Publications 84-106
Effective Fall 2006

TROY UNIVERSITY
MASTER OF SCIENCE IN INTERNATIONAL RELATIONS
Graduate Degree Plan and Progress Record
Application for Admission to Candidacy
36 Semester Hour Program

Name: ____________________________ Student ID #: _________________________ Campus: _________________________

Address: __________________________ Email: _________________________________

Copy of transcript must be attached. May not use “Student Academic Credits” or “Academic Evaluations” report.

DEGREE REQUIREMENTS:
1. GRE, or equivalent exam, test scores submitted
2. Official transcript of all academic work
3. Unconditional Admission
4. 36 semester hours of credit
5. Meet residency requirements
6. No more than two grades below “B”
7. Overall GPA of 3.0
8. Completion of research requirement with a “B” or better
9. All credit earned within 5 years of graduation
10. Admission to Candidacy
11. Successfully complete comprehensive exam/thesis (Select One)
12. Intent to Graduate filed

REQUIRED CORE COURSES – 12 Semester Hours

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<td>IR 6601</td>
<td>RESEARCH METHODS IN INTERNATIONAL RELATIONS</td>
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<td>THEORY &amp; IDEOLOGY OF INTERNATIONAL RELATIONS</td>
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CONCENTRATION COURSES (12-24 HOURS)
- Global Studies
- National Security
- Regional Affairs

APPROVED ELECTIVES (0-12 HOURS)

ITEMS TO BE DISCUSSED
1. One-term limit to have transcript(s) and test scores on file
2. Temporary, Conditional, and Unconditional Admission
3. Availability of faculty for academic advising
4. Petition for transfer credit once unconditionally admitted
5. Class Attendance
6. Drop and Withdrawal procedures; deadline and consequences
7. Petition for an incomplete grade
8. Student participation in course and Program Evaluation
9. Other

STUDENT ACKNOWLEDGEMENT: I have read the current year’s Graduate Catalog and acknowledge the contents and requirements of the above program. I have received academic advising from my Faculty Advisor.

Student’s Signature: ____________________________ Date: ____________ Faculty Adviser: ____________________________ Date: ____________

STUDENT ACKNOWLEDGEMENT: I hereby apply for Admission to Candidacy.

Student’s Signature: ____________________________ Date: ____________

Adviser: ____________________________ Date: ____________

APPROVED: Chair/Associate Dean or Dean
CANDIDACY APPROVED: Dean, Graduate School

Revised 8-4-06
TROY Publications 384-126
TROY UNIVERSITY
Master of Public Administration
Graduate Degree Plan and Program Record
Application for Admission to Candidacy
36/39 Semester Hour Program

Name: ___________________________ Student ID #: ___________________________ Campus: ___________________________
Address: ___________________________ Troy Email: ___________________________ Phone: ___________________________

Copy of transcript must be attached. May not use "Student Academic Credits" or "Academic Evaluation" report.

DEGREE REQUIREMENTS:
1. GRE, or equivalent exam, test scores submitted
2. Official transcript of all academic work
3. Unconditional Admission
4. Semester hours of credit: 36
5. Meet residency requirements
6. No more than two grades below "B"
7. PA 6690 Internship Needed?
8. Overall GPA of 3.0
9. Completion of research requirement with a "B" or better
10. All credit earned within 5 years of graduation
11. Admission to Candidacy
12. Completion of PA 6690 with a "B" or better
13. Intent to Graduate filed

REQUIRED CORE COURSES – 27 Semester Hours

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<th>COURSE NO</th>
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<th>TERM/yr</th>
<th>TRANSFER CREDITS</th>
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<td>PA 6601</td>
<td>Research Methods in Public Administration</td>
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<tr>
<td>PA 6610</td>
<td>Foundations of Public Administration</td>
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<td>PA 6622</td>
<td>Theory of Organizations</td>
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<td>PA 6624</td>
<td>Public Policy</td>
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<td>PA 6624</td>
<td>Public Human Resource Management</td>
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<td>PA 6646</td>
<td>Organizational Behavior</td>
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<td>PA 6650</td>
<td>Governmental Budgeting and Financial Management</td>
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<td>PA 6690</td>
<td>Capstone in Public Administration (Fund core course or permission of instructor)</td>
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SELECT ONE: 3 Semester Hours*

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SELECT ONE: 3 Semester Hours

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*Nonprofit Management Concentration must take PA 6631 Program Evaluation.

CONCENTRATION

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INTERNSHIP 3 Semester Hours

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ITEMS TO BE DISCUSSED
1. One term limit to have transcripts and test scores on file
2. Temporary, Conditional, and Unconditional Admission
3. Availability of faculty for academic advising
4. Petition for transfer credit once unconditionally admitted
5. Class Attendance
6. Drop and Withdrawal procedures; deadline and consequences
7. Petition for an incomplete grade
8. Student participation in course and Program Evaluation
9. PA 6690: Foundations of Public Administration Completed in First Nine (9) Hours

STUDENT ACKNOWLEDGEMENT: I have read the Graduate Catalog and acknowledge the contents and requirements of the above program. I have received academic advising from my Faculty Advisor.

Graduate Catalog: Date

STUDENT ACKNOWLEDGEMENT: I hereby apply for Admission to Candidacy.

Admission Status
Type: Date Initials
Condition: Date
Unconditional: Date
Residency: Date
Test Score: Date

STUDENT ACKNOWLEDGEMENT: I hereby apply for Admission to Candidacy.

M.P.A. Faculty Advisor: Date

STUDENT ACKNOWLEDGEMENT: I hereby apply for Admission to Candidacy.

M.P.A. Director: Date

STUDENT ACKNOWLEDGEMENT: I hereby apply for Admission to Candidacy.

Chair/Associate Dean or Dean: Date

STUDENT ACKNOWLEDGEMENT: I hereby apply for Admission to Candidacy.

Dean, Graduate School: Date

Distribution: Gold: Student, White: Campus/Instructors, All others: (Green, Yellow, UC,..)

Original Director, M.P.A. Program

Revised: 4-01-07; TROY Publications 364-12
TROY UNIVERSITY
GRADUATE CERTIFICATION PROGRAM IN GOVERNMENT CONTRACTING
Certificate Plan and Progress Record
Certificate Verification
12 Semester-Hour Program

Name: ___________________________  Student ID#: ___________________________  Campus: ___________________________
Address: ___________________________  Email: ___________________________

Submit this form with the Certificate Intent form. A copy of transcript must be attached. May not use "Student Academic Credits" or "Academic Evaluation" report.

DEGREE REQUIREMENTS:
1. GRE, or equivalent exam, test scores admitted
2. Official transcript of all academic work
3. Unconditional Admission
4. 12 Semester hours of credit
5. Meet residency requirements
6. No more than two grades below "B"
7. Overall GPA of 3.0
8. All credit earned within 8 years of graduation

REQUIRED CERTIFICATE COURSES: (12 Semester Hours)

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☐ 6. Drop and Withdrawal procedures; deadlines and consequences
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☐ 8. Student participation in course and program evaluation

ADMISSION STATUS:

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STUDENT ACKNOWLEDGEMENT: I have read the current year's Graduate Catalog and acknowledge the contents and requirements of the above degree. I have received academic advising for my Faculty Adviser, and I hereby apply for Admission to Candidacy.

Student's Signature: ___________________________  Date: ___________________________
Faculty Adviser: ___________________________  Date: ___________________________

Approved: ___________________________  Date: ___________________________
Approved: ___________________________  Date: ___________________________
Approved: ___________________________  Date: ___________________________