COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is, from both historical and functional points of view, the core of the modern university. The College of Arts and Sciences views creativity, inquiry and understanding as among the greatest values in human experience. Thus, the College of Arts and Sciences is dedicated to the questioning, creation and transmission of knowledge; to the provision of undergraduate and graduate educational programs that are responsive to the need of an enlightened and productive citizenry; and to the provision of programs and services that enhance the quality of life of the people it serves.

These goals complete a commitment to creativity and inquiry free of bias and based upon the principles of objective scholarship. The College's goals require a responsibility to promote and convey those elements of the liberal arts and sciences that must be essential components of the educational goals of all units of the university. The college seeks richness through diversity of its programs and strength through erudition.

Degree Program	Troy Campus	Phenix City Campus	Dothan Campus	Montgomery Campus	Global Campus*	eTROY
Biomedical Sciences	X					
Computer Science	X			X		
Criminal Justice	X		X		X	X
Environmental & Biological Sciences	X					X
International Relations	X		X		X	X
Public Administration	X				X	X
Certificate in Biomedical Sciences	X					
Certificate in Government Contracting						X

* Please refer to http://admissions.troy.edu/graduate/academicPrograms for specific program availability by location

MASTER OF SCIENCE IN BIOMEDICAL SCIENCES (M.S. BMS)

PENDING APPROVAL

Mission

The M.S. program and certificate in the Biomedical Sciences are designed to achieve the following: 1) to prepare students for future entry into medical and other professional schools in the health sciences and 2) to provide students with advanced knowledge in the biomedical sciences.

Upon completion of the degree program, students will gain a thorough knowledge of biomedical concepts developed through courses that focus on the changing face of medicine and biotechnology. This program will foster strategic and critical thinking, logical analysis, and propose solutions to the challenges of medicine, the allied health sciences, and biotechnology.

The expected program learning outcomes of students enrolled in the Master of Science in the Biomedical Sciences include:

1. Demonstrate a conceptual competence of the basic biomedical sciences.
2. Develop a framework for maintaining technological currency in the biomedical sciences healthcare.
3. Develop critical thinking skills for applying scientific knowledge in problem-solving.
4. Acquire skills for developing hypotheses, analyzing data, and interpreting and communicating results in the biomedical sciences.
5. Develop written and oral skills for communicating effectively and professionally.
6. Promote ethical standards for all professional activities in the biomedical sciences and healthcare.

Prerequisite Requirements

Candidates for admission must have a baccalaureate degree from a regionally accredited college or university. Prerequisites include physics, general chemistry and organic chemistry. Students with undergraduate degrees outside of the biological sciences and chemistry are encouraged to inquire about the program.

Admission Requirements

To apply for admission to the M.S. program in Biomedical Sciences, applicants must submit the following:

1. Completed Application for Admission to the Graduate School;
2. Official transcript(s) from all universities or colleges attended;
3. Official copy of one of the following: GRE (with writing score), MAT, or GMAT scores;
4. Two letters of recommendation from professors, physicians, or other appropriate professionals that address the applicant's potential for success in a graduate program; and
5. A 500-word personal statement that addresses the applicant's professional goals, readiness for graduate school, and potential for completing the M.S. B.M.S. program.

Unconditional Admission

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

1. Applicants who have completed a master's or higher degree from a regionally accredited college or university may be admitted unconditionally. Applicants must submit all materials listed in Admission Requirements for the M.S. in Biomedical Sciences.
2. Attained a bachelor's degree from a regionally accredited college or university and achieved a minimum of 2.5 GPA in all undergraduate courses.
3. Have an acceptable score on the appropriate entrance exam: GRE 294 and GRE writing score. If the student has taken the MCAT or equivalent professional exam, then this may be substituted for the GRE.

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 M.S. program in Biomedical Sciences and must be approved by the Chair of the Department of Biological and Environmental Sciences. Students who transfer a "core" course will still be held accountable for all material and Troy courses. In addition, transfer students must still successfully complete the comprehensive exam.

DEGREE REQUIREMENTS

1. Unconditional admission
2. Overall 3.0 GPA in all graduate work completed
3. No more than two grades in any course work attempted with a grade of C or below
4. If the student makes a "C" or lower 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
5. Completion of the curriculum listed below
6. Successful completion of the comprehensive examinations

Curriculum (39-43 sh)

The Master of Sciences in Biomedical Sciences is a 39-43 hour non-thesis degree.

** The University requires that 6000-level courses make up at least 50% of the 39-43 semester hours.*

**Courses with separate lectures and labs must be taken together.*

**Please note that 5000-level courses cannot duplicate undergraduate courses that the student has taken as an undergraduate.*

**Please note that the 6000-level core classes are ONLY offered in a 16-week format during the fall and spring semesters. Summer courses (6000-level) are offered on an 8-week format. All core courses require a grade of "B" or better.*

Core Courses (24 sh)

BMS	6615	3	Medical Microbiology and Immunology
BMS	L615	1	Medical Microbiology & Immunology Lab
BMS	6620	3	Neuroscience
BMS	6625	3	Medical Cell Biology
BMS	L625	1	Medical Cell Biology Lab
BMS	6635	3	Medical Physiology
BMS	6640	7	Anatomical Sciences
BIO	6691	3	Research Methodology and Experimental Design

In addition to these Required Core Classes, students must take additional classes to complete the graduation requirement of 39-43 semester hours.

Elective courses (15-19 sh)

Courses with separate lectures and labs must be taken together.

BIO	5516	3	Microbial Ecology
BIO	L516	1	Microbial Ecology Lab
BIO	5530	3	Applied Genetics
BIO	L530	1	Applied Genetics Lab
BIO	5533	3	Embryology
BIO	L533	1	Embryology Lab
BIO	5551	3	Toxicology
BIO	L551	1	Toxicology Lab
BIO	5552	3	Industrial Hygiene
BIO	L552	1	Industrial Hygiene Lab
BIO	5771	3	Parasitology
BIO	L571	1	Parasitology
BIO	5576	1-4	Special Topics
BIO	5580	3	Histology
BIO	L580	1	Histology Lab
BIO	5592	1-4	Guided Independent Research
BIO	5594	1-4	Guided Independent Study
BIO	6601	3	Environmental and Biological Ethics
BIO	6602	3	Human Pathophysiology
BIO	L602	1	Human Pathophysiology Lab
BIO	6621	3	Environmental Toxicology
BIO	6624	3	Public Health
BIO	6625	1-4	Specialized Study in Biology
	6626		
BIO	6630	3	Medical Pharmacology
BIO	6643	3	Biological Chemistry
BIO	6645	3	Biotechnology Techniques
BIO	6670	1-4	Special Topics
	6671		
PA	6677	3	Public Health Preparedness and Emergency Response
PA	6678	3	Introduction to Public Health (3)

Comprehensive Examination

After the completion of all coursework (in the semester or term prior to graduation), students must successfully complete a comprehensive examination. Students should work closely with their advisor to prepare for their comprehensive exams, which will be prepared, administered, and evaluated by the graduate committee. Comprehensive exams will be taken as scheduled by the University and/or Department during the last semester of coursework.

GRADUATE CERTIFICATE IN BIOMEDICAL SCIENCES (BMS) ADMISSION REQUIREMENTS

All certificate students must be admitted to the Graduate School and M.S. BMS program to qualify for the Certificate. See *Graduate Admissions* and *M.S. BMS Admission Requirements*.

Course Requirements

Students admitted in the M.S. BMS program may qualify for the BMS Certificate by completing the required courses and maintaining an overall 3.0 grade point average or better. The Graduate Certificate requires 21 semester hours of coursework as described below:

Required Courses (21 sh)

BMS	6615	3	Medical Microbiology and Immunology
BMS	L615	1	Medical Microbiology and Immunology Lab
BMS	6620	3	Neuroscience
BMS	6625	3	Medical Cell Biology
BMS	L625	1	Medical Cell Biology Lab
BMS	6635	3	Medical Physiology
BMS	6640	7	Anatomical Sciences

Other Requirements

Students who wish to be issued a certificate must submit the following to their home campus:

- Certificate Intent
- Copy of student transcripts

MASTER OF SCIENCE IN COMPUTER SCIENCE

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

Unconditional Admission

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.
3. Other 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 30 semester hours.
   - An acceptable score on the appropriate entrance exam [GRE 290 (850 on the old exam) (verbal plus quantitative), MAT 385 or GMAT 380].

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 entrance exam score may satisfy the 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 2250 – Computer Science I
   CS 2255– Computer Science II
   CS 3310 – Foundations of Computer Science
   CS 3323 – Data Structures

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.

Note: To remain eligible for Federal Financial Aid, all undergraduate courses MUST be completed before students enroll in any graduate courses.

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.

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 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. 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.

The degree requirements for the thesis and non-thesis options are as follows:

Thesis	Non-Thesis
1. Complete 30 SH of graduate -level courses to include 6 SH of course CS 6699;	1. Complete 31 SH of graduate-level courses to include 1 SH of course CS 6625;
2. Maintain a minimum overall 3.0 GPA; **AND**	2. Maintain a minimum overall 3.0 GPA
3. Successfully complete and defend a thesis.	3. Pass the written comprehensive examination; **AND**
	4. Successfully complete an approved research paper.

Approval Process

Thesis Option *(See Thesis Guidelines.)*

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.

Thesis

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 thesis proposal.

Non-Thesis

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.

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

5 Core Courses	15 SH
3 Electives	9 SH
Thesis (*CS 6699)*	6 SH
TOTAL	**30 SH**

Non-Thesis Option*

5 Core Courses	15 SH
5 Electives	15 SH
Research (*CS 6625)*	1 SH
TOTAL	**31 SH**

** Also includes a comprehensive examination.*

Courses

Required Core Courses: (15 sh)

CS	5543	3	Software Engineering
CS	5545	3	Computer Architecture
CS	5549	3	Analysis of Algorithms
CS	5547	3	Applied Systems Analysis
CS	5550	3	Operating System Principles

Elective Courses: (9/15 sh)

CS	6640	3	Data Base Management Concepts
CS	6641	3	Society and Information Systems
CS	6643	3	Theory and Design of Compilers
CS	6646	3	Information Systems for Operations and Management
CS	6647	3	Simulation and Modeling
CS	6648	3	Operations Research
CS	6650	3	Distributed Systems Principles
CS	6651	3	Artificial Intelligence
CS	6652	3	XML Technology Principles
CS	6653	3	Topics in Software Security and Reliability
CS	6654	3	Topics in Software Engineering
CS	6655	3	Digital Logic Design – Principles and Practices with Emphasis on Testable Semicustom Circuits
CS	6656	3	Design and Testing of Reliable Digital Systems
CS	6660	3	Algorithmic Graph Theory
CS	6664	3	High-Performance Computing
CS	6666	3	Computer Graphics
CS	6668	3	Network Security

Other Electives (approved by adviser—semester hours vary)

CS 6625, 6626, 6627		Specialized Study in Computer Science*
CS	6649	Special Topics in Computer Science
CS	6662	Special Topics in Game Design
CS	6699	Research and Thesis

** Total credit for any combination of enrollments in the specialized study courses may not exceed three semester hours.*

MASTER OF SCIENCE IN CRIMINAL JUSTICE

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 interpretation of the U.S. Constitution in light of historical case precedent; (c) to prepare students to understand, analyze and evaluate issues that affect the structure and functioning of the criminal

justice system; and (d) to understand, analyze and evaluate criminological theories that explain criminal behavior and its application to organizational 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

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

1. 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 290 (850 on the old exam) (verbal plus quantitative), MAT 385 or GMAT 380].

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 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.

Degree Requirements

Any student completing the coursework with a 3.0 GPA or better, successfully completing the required comprehensive examinations and the research requirement (CJ 6650) with a grade of "B" or better will be awarded the master's degree. 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.

Curriculum

All courses offer three semester hours credit.

Non-Thesis Option

Required Courses (15 sh)

CJ	6610	3	Principles of Administration
CJ	6620	3	Current Trends in Criminal Law
CJ	6622	3	Seminar in the Administration of Justice
CJ	6636	3	Criminological Theory
CJ	6650	3	Survey of Research Methods in Criminal Justice

Electives (15 sh)

Select any 15 hours of graduate coursework from the following:

CJ	5571	3	Probation, Pardons, and Parole
CJ	6621	3	Current Issues in Corrections
CJ	6624	3	Court Administration
CJ	6625	3	Specialized Study
CJ	6630	3	Juvenile Justice
CJ	6635	3	Community-Based Corrections/Correctional Systems
CJ	6638	3	Seminar in Civil Liberties Related to Corrections
CJ	6640	3	Seminar in Law Enforcement
CJ	6644	3	Administrative Law
CJ	6649	3	Statistics for Criminal Justice Research
CJ	6652	3	Seminar in Corrections
CJ	6655	3	Selected Topics in Criminal Justice
CJ	6660	3	Advanced Readings in Criminal Justice
CJ	6671	3	Organizational Theory
CJ	6692	3	Agency Experience
CJ	6693	3	Masters Project
Total			**30 sh**

OR

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

Required Courses (as above) 15 sh

Electives (5 sh)

Thesis Courses (6 sh)

CJ	6694	3	Thesis Practicum
CJ	6695	3	Thesis
Total			**36 sh**

MASTER OF SCIENCE IN ENVIRONMENTAL AND BIOLOGICAL SCIENCES

Purpose and Goals

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;
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.

Note: To remain eligible for Federal Financial Aid, all undergraduate courses MUST be completed before students enroll in any graduate courses. Students receiving Federal Financial Aid may NOT enroll in undergraduate courses after they have begun graduate coursework.

Admission Requirements for Master of Science in Environmental and Biological Sciences

Unconditional Admission

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

1. 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
2. Demonstrate an adequate academic background in the sciences that includes natural or biological sciences, general chemistry, and statistics
3. Have an acceptable score on the appropriate entrance exam [GRE 290 (850 on the old exam) (verbal plus quantitative), MAT 385 or GMAT 380].

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 (coursework, GPA, GRE score) 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.

Degree Requirements

1. Unconditional Admission
2. Completion of curriculum listed below. 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.
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.

Curriculum for M.S. in Environmental and Biological Sciences

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 nine semester hours of core courses and 21 semester hours of concentration course options for thesis and 27 semester hours of concentration course options for non-thesis as follows:

BIOLOGICAL SCIENCES CONCENTRATION

Required Core Courses (9 sh)

BIO	6601	3	Environmental and Biological Ethics
BIO	6630	3	Pollution Science
BIO	6691	3	Research Methodology and Experimental Design

Select one option below:

Non-Thesis Option : (27 sh)

Required courses: (11-12 sh)

Select three courses

Courses with separate lectures and labs must be taken together.

BIO	5513	3	Limnology
BIO	L513	1	Limnology Lab
BIO	5516	3	Microbial Ecology
BIO	L516	1	Microbial Ecology Lab
BIO	5521	3	Population Ecology
BIO	L521	1	Population Ecology Lab
BIO	5530	3	Applied Genetics
BIO	L530	1	Applied Genetics Lab
BIO	5579	3	Environmental Assessment
BIO	L579	1	Environmental Assessment Lab
BIO	6621	3	Environmental Toxicology
BIO	6661	3	Conservation Biology

Adviser Approved Electives: (15 –16 sh)

OR

Thesis Option: (21 sh minimum)

Required courses : (9-10 sh)

BIO	6695	6	Thesis Research

Select one course:

Courses with separate lectures and labs must be taken together.

BIO	5513	3	Limnology
BIO	L513	1	Limnology Lab
BIO	5516	3	Microbial Ecology
BIO	L516	1	Microbial Ecology Lab
BIO	5521	3	Population Ecology
BIO	L521	1	Population Ecology Lab
BIO	5530	3	Applied Genetics
BIO	L530	1	Applied Genetics Lab
BIO	5579	3	Environmental Assessment
BIO	L579	1	Environmental Assessment Lab
BIO	6621	3	Environmental Toxicology
BIO	6661	3	Conservation Biology

Adviser Approved Elective Courses: (11-12 sh)

ENVIRONMENTAL POLICY CONCENTRATION

Required Core Courses (9 sh)

EBS	6601	3	Environmental and Biological Ethics
EBS	6630	3	Pollution Science
EBS	6691	3	Research Methodology and Experimental Design

Non-Thesis Option: (27 sh)

Select nine courses

EBS	5550	3	Environmental History of the U.S.
EBS	6603	3	Environmental Management
EBS	6611	3	Global Pollution and International Environmental Policy
EBS	6612	3	Environmental Impact Studies and Risk Management
EBS	6615	3	Environmental Law, Permitting, and Regulatory Compliance
EBS	6621	3	Environmental Toxicology
EBS	6624	3	Public Health
EBS	6635	3	Land Use Planning
EBS	6637	3	Environmental Economics
EBS	6665	3	Sustainable Development
PA	6622	3	Public Policy
PA	6645	3	Managing Government Contracts
PA	6630	3	Strategic Planning
PA	6631	3	Program Evaluation

ENVIRONMENTAL SCIENCE CONCENTRATION

Required Core Courses (9 sh)

EBS	6601	3	Environmental and Biological Ethics
EBS	6630	3	Pollution Science
EBS	6691	3	Research Methodology and Experimental Design

Select one option below:

Non-Thesis Option: (27 sh)

Required courses (13 sh)

EBS	6603	3	Environmental Management
EBS	6612	3	Environmental Impact Studies and Risk Management
EBS	6621	3	Environmental Toxicology
EBS	L630	1	Pollution Science Laboratory
EBS	6665	3	Sustainable Development

Adviser Approved Electives courses: (14 sh)

OR

Thesis Option: (21 sh minimum)

Required courses : (9 sh)

EBS	6695	6	Thesis Research

Select one course:

EBS	6603	3	Environmental Management
EBS	6665	3	Sustainable Development

Adviser Approved Electives: (12 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, events in the Greater Middle East, the rising power of China as well as other developing countries, the influence of non-state actors such as terrorist groups and NGOs, plus concerns about national and global economic issues demonstrate a paradigm shift in international affairs. The Cold War, which dominated global events for nearly five decades, is over, yet what will replace the norms and institutions of that era is not clear. What is apparent, however, is that the world community is increasingly interdependent, that traditional identities and values are being reexamined, and that new challenges are likely to 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 with the foundation and knowledge needed to understand the context and conduct of international relations. Students are encouraged to gain a wide-ranging appreciation of the political, historical, cultural, economic, and geographical factors that affect international relations. This appreciation is accomplished through a program of instruction focused on international relations theory and its application but drawing from disciplines such as history, economics, and geography. Students also acquire methodological and analytical skills that improve their understanding and ability to evaluate national and global developments.

The program offers courses covering history, regional studies, comparative government, foreign policy, the global economy, geography, conflict management, national security, international organization, international law, intercultural relations, and the politics of developing countries.

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

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 294 (920 on the old exam) (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" or better grade, can be applied toward the degree; graduate-level courses completed by U.S. service personnel in Professional Military Education programs may also qualify for transfer credit. These courses must be comparable in catalog description to Troy University courses in the MSIR program and must be recommended for transfer credit by the Chair of the Department of Political Science and approved by the Dean of the Graduate School.

Degree Requirements

1. Unconditional admission
2. Overall 3.0 GPA
3. Completion of the curriculum listed below. 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.
4. Successful completion of the comprehensive examination or a thesis*
5. Successful completion ("B" or better) of IR 6601 Research Methods in International Relations, the program research requirement

   **The thesis option is not available to eTROY students.*

Curriculum

All courses offer three semester hours credit.

The MSIR curriculum of study consists of three integral components.

1. Four core required courses
2. The selection and completion of one program concentration
3. 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 the following four courses:

IR	5551	3	Survey of International Relations
IR	6601	3	Research Methods in International Relations
IR	6620	3	International Political Economy
IR	6652	3	Theory and Ideology of International Relations

MSIR CONCENTRATION OPTIONS

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 sh)

Students may choose any eight of the following courses:

GEO	5506	3	Urbanism
GEO	5511	3	Demography

GEO	5526	3	Geography of the Russian Realm
GEO	6624	3	Geographic Characteristics of the Developing Realm
HIS	5503	3	Contemporary Europe
HIS	5504	3	Military History of the United States
HIS	5510	3	England since 1688
HIS	5515	3	Contemporary America, 1945 to Present
HIS	5523	3	U.S. Foreign Policy to 1920
HIS	5532	3	Russia to 1861
HIS	5533	3	Russia since 1861
HIS	5545	3	Modern Germany
HIS	5551	3	Modern East Asia
HIS	5583	3	Latin American States
HIS	5552	3	History of Africa
HIS	5556	3	History of the Middle East
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	Geostrategic Studies
IR	6610	3	International Organizations
IR	6612	3	Comparative Public Policy
IR	6625	3	Specialized Study in International Relations
	6626		
	6627		
IR	6629	3	Seminar in International Relations
	6630		
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 in World Affairs
IR	6644	3	Middle East in World Affairs
IR	6645	3	Asia in World Affairs
IR	6646	3	South 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
IR	6650	3	Environmental Security, Conflict, and Development
PA	6610	3	Foundations of Public Administration

NATIONAL SECURITY AFFAIRS CONCENTRATION

(24 SH)

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	Geostrategic Studies
IR	6635	3	National Security Policy
IR	6656	3	International Power and Influence
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 sh)

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:

Africa and Middle East

Students must take at least one course focused on Africa and one focused on the Middle East

HIS	5552	3	History of Africa
HIS	5556	3	History of the Middle East
IR	6640	3	Government and Politics in Developing Nations
IR	6648	3	Sub-Saharan Africa in World Affairs
IR	6681	3	Tribalism and Colonialism in Africa
IR	6644	3	Middle East in World Affairs
IR	6688	3	Islamic Fundamentalism

Asia

GEO	5526	3	Geography of the Russian Realm
HIS	5551	3	Modern East Asia
HIS	6614	3	Contemporary Japan
IR	5570	3	Politics of Southeast Asia
IR	6640	3	Government and Politics of Developing Nations
IR	6645	3	Asia in World Affairs
IR	6646	3	South Asia in World Affairs
IR	6676	3	Japan in World Affairs
IR	6677	3	China in World Affairs

Europe

GEO	5526	3	Geography of the Russian Realm
HIS	5503	3	Contemporary Europe
HIS	5510	3	England Since 1688
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

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	Central America in World Affairs
IR	6686	3	Drug Politics in the Americas
IR	6687	3	Free Trade and Economic Integration in the Americas

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 MSIR faculty, reviewed by the Chair, and certified by the Graduate Dean. 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 successfully research, write, and defend their thesis while taking IR 6668 and IR 6669. 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 a Pass or Fail for the two thesis courses, no letter grade. Students completing this option are not required to take the Comprehensive Examination.

** The thesis option is not available to eTROY students.*

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

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 in a paraprofessional, professional, technical, or supervisory position that involves relevant service to the profession and/or public service 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 eTROY. **The MPA degree program is offered at Global Campus sites throughout the United States, through online courses, and at the Troy campus.**

Accreditation

The Troy University Master of Public Administration (MPA) degree is accredited by the Network of Schools of Public Policy, Affairs, and Administration (NASPAA).

Admission Requirements for Master of Public Administration

To apply for admission to the Master of Public Administration program, applicants must submit the following material to the relevant Troy University address specified in the *Graduate Catalog's* General Regulations section under "Pre Admission Procedures Application Forms":

1. Completed application form.
2. Official transcript(s) from all universities attended;
3. Official copy of GRE,MAT or GMAT scores;
4. A letter of recommendation that addresses the applicant's 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.

Except for holders of an MPA/MPP degree from a NASPAA accredited program, the MPA admission requirements apply to all TROY MPA program applicants, including:

- Admission with a master's or higher degree from a regionally accredited university (official copy of GRE, MAT or GMAT scores not required)
- Admission to the Graduate Certificate in Government Contracting option

MPA program applicants are not allowed to register for MPA courses without completion of all admissions requirements. Students enrolled in other accredited universities who wish to take Troy University MPA courses may use the Transient Admission Procedures specified in the General Regulations section of this *Catalog*.

Unconditional Admission

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

1. Applicants who have completed a master's or higher degree from a regionally accredited college or university.

   OR

2. A bachelor's degree from a regionally accredited college or university;
3. Achieved a minimum of 2.5 GPA in all undergraduate courses or a minimum 3.0 GPA in the last thirty undergraduate semester hours;
4. Have an acceptable score on the appropriate entrance exam: GRE 294 (920 on the old exam) (verbal plus quantitative), MAT 400, or GMAT 490.

In addition to these criteria, the MPA admissions process takes into account an applicant's letter of recommendation, essay, and resumé in determining whether or not the applicant is admitted to the program and assigned Unconditional or Conditional Admission status.

Conditional Admission

Upon recommendation by the MPA Admissions Committee and approval by the Director of the MPA Program, conditional admission may be granted under certain circumstances to applicants who do not 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 MPA degree. Transfer credit for MPA core courses is limited to courses completed at Network of Schools of Public Policy, Affairs, and Administration (NASPAA) accredited MPA programs. These courses must be comparable in catalog description to courses in the MPA program and recommended by the Director of the MPA Program and approved by the Dean of the Graduate School. Professional Military Education (PME) courses and programs will not be accepted as transfer credits for Public Administration core courses but may be accepted as transfer credit for elective courses.

Internship Requirements

Students with less than one year work experience in a paraprofessional, professional, technical, or supervisory position that involves relevant service to the profession and/or public service are required to complete PA 6694 Internship. Students may substitute the PA 6694 Internship course for one (1) elective concentration course. However, the student's internship must be approved by the PA 6694 instructor in advance and performed in an area that is related to the student's identified concentration.

Research Requirement

For Initial Master's Degree

All graduate programs require certification of the student's ability to do research in a specialization. For the MPA program, this requirement is met by achieving a grade of "B" or better in PA 6601. Students must repeat PA 6601 if a grade of "C" or below is attained.

For Second Master's Degree

If the research requirement was completed for the first master's degree with a "B" or above, students are exempt from this requirement in the MPA program. Students exercising this exemption must complete an additional elective course in their program, or obtain approved transfer credit to achieve the minimum required credits for graduation.

Degree Requirements

1. Unconditional Admission
2. Overall 3.0 GPA
3. Successful completion of PA6699, Capstone in Public Administration, with a grade of "B" or better
4. Completion of MPA Degree curriculum. 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.

Curriculum

The MPA degree curriculum consists of 12 courses including nine core courses and three elective courses from one concentration. **It is strongly recommended that students complete PA 6601-Research Methods in Public Administration and PA 6610 -Foundation of Public Administration within their initial 18 hours in the MPA program.**

Required Core Courses : (27 SH)

PA	6601	3	Research Methods in Public Administration
PA	6610	3	Foundations of Public Administration
PA	6620	3	Theory of Organizations
	OR		
PA	6646	3	Organizational Behavior
PA	6622	3	Public Policy
PA	6624	3	Public Human Resource Management
PA	6650	3	Governmental Budgeting and Financial Management
PA	6674	3	Ethics in Public Administration
PA	6699	3	Capstone in Public Administration
PA	6603	3	Economics for Public Management
	OR		
PA	6631	3	Program Evaluation

**Students in Nonprofit Management concentration must take PA 6631. PA 6601 must be completed prior to taking PA 6631.*

Concentrations (9 hours)

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

- Government Contracting
- Justice Administration
- National Security Affairs
- Nonprofit Management
- Public Health Administration
- Public Human Resource Management
- Public Management

Concentrations

Government Contracting

PA	6645	3	Managing Government Contracts
PA	6647	3	Advanced Contract Administration
PA	6648	3	Contract Negotiation
PA	6649	3	Government Contract Law
PA	6668	3	Grant Management for Public and Nonprofit Organizations

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	6652	3	Seminar in Corrections

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	Geostrategic Studies
IR	6630	3	Seminar in International Relations
IR	6635	3	National Security Policy
IR	6656	3	International Power and Influence
IR	6660	3	Military Strategy and International Relations

Nonprofit Management*

PA	6607	3	Performance Measurement and Management for Public and Nonprofit Organizations
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

**Students in Nonprofit Management must take PA 6631. PA 6601 must be completed prior to taking PA 6631.*

Public Health Administration

PA	6675	3	Public Health Services Administration and Policy
PA	6676	3	Legal and Social Issues in Public Health Administration
PA	6677	3	Public Health Preparedness and Emergency Response
PA	6678	3	Introduction to Public Health

Public Human Resource Management*

PA	6604	3	Workforce Planning and Staffing
PA	6605	3	Training and Development
PA	6606	3	Issues in Managing the Public Workforce
PA	6643	3	Advanced Public Human Resources Management

**Students in Public Human Resources Management must take PA 6624 prior to taking any courses in this concentration.*

Public Management

PA	6603	3	Economics for Public Management
PA	6607	3	Performance Measurement and Management for Public and Non-profit Organizations
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	6679	3	e-Governance
PA	66xx	3	Approved Adviser elective

Concentration Courses

PA 6625 Specialized Study in Public Administration or PA 6660 Readings in Public Administration may be utilized in any concentration with the prior approval of the Director of the MPA Program. 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.

GRADUATE CERTIFICATE IN GOVERNMENT CONTRACTING

Admission Requirements

Applicants who want to pursue the Graduate Certificate in Government Contracting must be admitted to the Graduate School and MPA program. See Graduate Admissions and MPA Admission requirements.

Course Requirements

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

Admitted MPA students may qualify for the Certificate by completing the four required courses and maintaining an overall 3.0 GPA or better in order to meet certification requirement.

Other Requirements

Students who wish to be issued a certificate must submit the following to their home campus:

- Certification Intent
- Copy of student transcript

2013-2014

TROY UNIVERSITY

M.S. - BIOMEDICAL SCIENCES (BMS)

Graduate Degree Plan and Progress Record

39-43 Semester-Hour Program

TROY Publication 384-246
Created: 3/2013

Name: _____ Student ID#: _____ Campus: _____

Address: _____ Email: _____

DEGREE REQUIREMENTS:

1. GRE, or equivalent exam, test scores admitted
2. Official transcript of all academic work
3. Unconditional Admission
4. 39-43 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 all core courses with a "B" or better
9. All credit earned within 8 years of graduation
10. Successfully complete comprehensive exam or thesis (Select One)
11. Intent to Graduate filed

CORE COURSES (24 Semester Hours)

COURSE NO.	TITLE	HRS.	GRADE	TERM / YR	TRANSFER CREDIT
BMS 6615	Medical Microbiology and Immunology	3			
BMS L615	Medical Microbiology and Immunology Lab	1			
BMS 6620	Neuroscience	3			
BMS 6625	Medical Cell Biology	3			
BMS L625	Medical Cell Biology Lab	1			
BMS 6635	Medical Physiology	3			
BMS 6640	Anatomical Sciences	7			
BIO 6691	Research Methodology and Experimental Design	3			

ELECTIVE COURSES: (15-19 Semester Hours) *See Graduate Catalog for list of approved electives.*

COURSE NO.	TITLE	HRS.	GRADE	TERM / YR	TRANSFER CREDIT

Note: To remain eligible for Federal Financial Aid, all undergraduate courses MUST be completed before students enroll in any graduate courses. Students on Federal Financial Aid may NOT enroll in undergraduate courses after they have begun graduate coursework.

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; deadlines and consequences
- ☐ 7. Petition for an incomplete grade
- ☐ 8. Student participation in course and program evaluation
- ☐ 9. Comprehensive Examination Requirements

ADMISSION STATUS:

TYPE	DATE	INITIALS
Conditional		
Unconditional		
Test Scores		

2013-2014

TROY Publication 384-247
Created 3/2013

TROY UNIVERSITY

GRADUATE CERTIFICATE IN BIOMEDICAL SCIENCES

Certificate Plan and Progress Record
Certificate Verification
15 - 19 Semester-Hours

Name: _____ Student ID#: _____ Campus: _____

Address: _____ Email: _____

DEGREE REQUIREMENTS:

1. Admitted to the MS BMS program
2. Official transcript of all academic work
3. Unconditional Admission
4. 15 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 COURSES: (21 Semester Hours)

COURSE NO.	TITLE	HRS.	GRADE	TERM / YR	TRANSFER CREDIT
BMS 6615	Medical Microbiology and Immunology	3			
BMS L615	Medical Microbiology and Immunology Lab	1			
BMS 6620	Neuroscience	3			
BMS 6625	Medical Cell Biology	3			
BMS L625	Medical Cell Biology Lab	1			
BMS 6635	Medical Physiology	3			
BMS 6640	Anatomical Sciences	7			

ITEMS TO BE DISCUSSED:

- ☐ Conditional or Unconditional Admission
- ☐ Availability of faculty for academic advising
- ☐ Petition for transfer credit once unconditionally admitted (3 SH maximum)
- ☐ Class attendance
- ☐ Drop and Withdrawal procedures; deadlines and consequences
- ☐ Petition for an incomplete grade
- ☐ Student participation in course and program evaluation

ADMISSION STATUS:

TYPE	DATE	INITIALS
Conditional		
Unconditional		
Residency		
Test Scores		

2013-2014

TROY UNIVERSITY

MASTER OF SCIENCE IN COMPUTER SCIENCE

Graduate Degree Plan and Progress Record

30 / 31 Semester-Hour Program

TROY Publication 384-123
Revised: 3/2013

Name: _____ Student ID#: _____ Campus: _____

Address: _____ Email: _____

DEGREE REQUIREMENTS:

1. GRE, or equivalent exam, test scores admitted
2. Official transcript of all academic work
3. Unconditional Admission
4. 30/31 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. Successfully complete comprehensive exam or thesis
11. Intent to Graduate filed

PREREQUISITE COURSES *Required for students with Bachelor's Degree outside the field of Computer Science*

COURSE NO.	TITLE	HRS.	GRADE	TERM / YR	TRANSFER CREDIT
MTH 2215	Applied Discrete Mathematics	3			
CS 2250	Computer Science I	3			
CS 2255	Computer Science II	3			
CS 3310	Foundations of Computer Science	3			
CS 3323	Data Structures	3			

Note: To remain eligible for Federal Financial Aid, all undergraduate courses MUST be completed before students enroll in any graduate courses. Students on Federal Financial Aid may NOT enroll in undergraduate courses after they have begun graduate coursework.

REQUIRED CORE COURSES (15 Semester Hours)

CS 5543	Software Engineering	3			
CS 5545	Computer Architecture	3			
CS 5547	Applied Systems Analysis	3			
CS 5549	Analysis of Algorithms	3			
CS 5550	Operating System Principles	3			

ELECTIVES: (15/16 Semester Hours)

CS 6640	Data Base Management Concepts	3			
CS 6641	Society and Information Systems	3			
CS 6643	Theory and Design of Compilers	3			
CS 6646	Information Systems for Operations and Management	3			
CS 6647	Simulation and Modeling	3			
CS 6648	Operations Research	3			
CS 6650	Distributed Systems Principles	3			
CS 6651	Artificial Intelligence	3			
CS 6652	XML Technology Principles	3			
CS 6653	Topics in Software Security and Reliability	3			
CS 6654	Topics in Software Engineering	3			
CS 6655	Digital Logic Design Principles and Practice with Emphasis on Testable Semicustom Circuits	3			
CS 6656	Design and Testing of Reliable Digital Systems	3			
CS 6660	Algorithmic Graph Theory	3			
CS 6664	High-Performance Computing	3			
CS 6666	Computer Graphics	3			
CS 6668	Network Security	3			

2013-2014

ADVISER APPROVED ELECTIVES: *Semester hours vary*

CS 6625*	Specialized Study in Computer Science				
CS 6626*	Specialized Study in Computer Science				
CS 6627*	Specialized Study in Computer Science				
CS 6649	Special Topics in Computer Science	3			
CS 6662	Special Topics in Game Design				
CS 6699	Research and Thesis				

* Total credit for any combination of enrollments in the specialized study courses may not exceed three 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 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. Thesis and non-thesis options
- ☐ 10. Other _____

Progress:

STATUS	DATE	INITIALS
Conditional		
Test Scores		
Requirement for minimum undergraduate GPA waived		
Requirement for minimum score of GRE waived		
Unconditional		
Residency		
Comps		

THIS FORM REQUIRED FOR EVERY REGISTRATION, EVERY TERM

2013-2014

TROY UNIVERSITY

MASTER IN CRIMINAL JUSTICE

Graduate Degree Plan and Progress Record

30 / 36 Semester-Hour Program

TROY Publication 384-124
Revised: 3/2013

Name: _____ Student ID#: _____ Campus: _____

Address: _____ Email: _____

DEGREE REQUIREMENTS:

1. GRE, or equivalent exam, test scores admitted
2. Official transcript of all academic work
3. Unconditional Admission
4. 30/36 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 8 years of graduation
10. Successfully complete comprehensive exam or thesis
11. Intent to Graduate filed

REQUIRED CORE COURSES (15 Semester Hours)

COURSE NO.	TITLE	HRS.	GRADE	TERM / YR	TRANSFER CREDIT
CJ 6610	Principles of Administration	3			
CJ 6620	Current Trends in Criminal Law	3			
CJ 6622	Seminar in the Administration of Justice	3			
CJ 6636	Criminological Theory	3			
CJ 6650	Survey of Research Methods in Criminal Justice	3			

ELECTIVES: (15 Semester Hours) *Select 5 courses from approved elective courses. See Graduate Catalog for list.*

THESIS OPTION*: (6 Semester Hours) *Complete all above requirements plus the courses listed below.* * Available Troy Campus only

CJ 6694	Thesis Practicum	3			
CJ 6695	Thesis	3			

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; deadlines and consequences
- ☐ 7. Petition for an incomplete grade
- ☐ 8. Student participation in course and program evaluation
- ☐ 9. Comprehensive Examination Requirements

ADMISSION STATUS:

TYPE	DATE	INITIALS
Conditional		
Unconditional		
Test Scores		

2013-2014

TROY UNIVERSITY

TROY Publication 384-126
Revised: 3/2013

M.S. - ENVIRONMENTAL AND BIOLOGICAL SCIENCES (EBS)

Graduate Degree Plan and Progress Record

30/36 Semester-Hour Program

Name: _____ Student ID#: _____ Campus: _____

Address: _____ Email: _____

DEGREE REQUIREMENTS:

1. GRE, or equivalent exam, test scores admitted
2. Official transcript of all academic work
3. Unconditional Admission
4. 30-36 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 8 years of graduation
10. Successfully complete comprehensive exam or thesis
11. Intent to Graduate filed

REQUIRED CORE COURSES (9 Semester Hours)

COURSE NO.	TITLE	HRS.	GRADE	TERM / YR	TRANSFER CREDIT
EBS/BIO 6601	Environmental and Biological Ethics	3			
EBS/BIO 6630	Pollution Science	3			
EBS/BIO 6691	Research Methodology and Experimental Design	3			

CONCENTRATION COURSES: (21-27 Semester Hours) ○ Biological Sciences ○ Environmental Policy ○ Environmental Science

See Graduate Catalog for list of required courses and approved electives for the selected concentration.

THESIS OPTION*: *Complete 21 sh of selected concentration courses plus thesis courses.* * Not available to eTROY students.

EBS/BIO 6695	Thesis Research	3			
EBS/BIO 6695	Thesis Research	3			

Note: To remain eligible for Federal Financial Aid, all undergraduate courses MUST be completed before students enroll in any graduate courses. Students on Federal Financial Aid may NOT enroll in undergraduate courses after they have begun graduate coursework.

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; deadlines and consequences
- ☐ 7. Petition for an incomplete grade
- ☐ 8. Student participation in course and program evaluation
- ☐ 9. Comprehensive Examination Requirements

ADMISSION STATUS:

TYPE	DATE	INITIALS
Conditional		
Unconditional		
Test Scores		

2013-2014

TROY UNIVERSITY

MASTER of SCIENCE IN INTERNATIONAL RELATIONS

Graduate Degree Plan and Progress Record

36 Semester-Hour Program

TROY Publication 384-126
Revised: 3/2013

Name: _____ Student ID#: _____ Campus: _____

Address: _____ Email: _____

DEGREE REQUIREMENTS:

1. GRE, or equivalent exam, test scores admitted
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 8 years of graduation
10. Successfully complete comprehensive exam or thesis
11. Intent to Graduate filed

REQUIRED CORE COURSES (12 Semester Hours)

COURSE NO.	TITLE	HRS.	GRADE	TERM / YR	TRANSFER CREDIT
IR 5551	Survey of International Relations	3			
IR 6601	Research Methods in International Relations	3			
IR 6620	International Political Economy	3			
IR 6652	Theory & Ideology of International Relations	3			

CONCENTRATION COURSES: (12 -24 Semester Hours) ○ Global Studies ○ National Security Affairs ○ Regional Affairs

See Graduate Catalog for list of required courses and approved electives for the selected concentration.

THESIS OPTION*: *Complete 18 sh of selected concentration courses plus thesis courses. Must register for Thesis courses as the last two courses in the program.* * Not available to eTROY students.

IR 6668	Thesis	3			
IR 6669	Thesis	3			

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; deadlines and consequences
- ☐ 7. Petition for an incomplete grade
- ☐ 8. Student participation in course and program evaluation
- ☐ 9. Comprehensive Examination Requirements

ADMISSION STATUS:

TYPE	DATE	INITIALS
Conditional		
Unconditional		
Test Scores		

2013-2014

TROY UNIVERSITY

MASTER OF PUBLIC ADMINSTRATION

Graduate Degree Plan and Progress Record

36 / 39 Semester-Hour Program

TROY Publication 384-127
Revised: 3/2013

Name: _____ Student ID#: _____ Campus: _____

Address: _____ Email: _____

DEGREE REQUIREMENTS:

1. Admission to MPA program
2. Official transcript of all academic work
3. Unconditional Admission
4. 36 Semester hours of coursework credit (39 with Internship)
5. Meet residency requirements
6. No more than two grades below "B"
7. Internship required or waived
8. Overall GPA of 3.0
9. Completion of research requirement (PA 6601) with a "B" or better
10. All credit earned within 8 years of graduation
11. Completion of capstone (PA 6699) with a grade of "B" or better
12. Intent to Graduate filed

REQUIRED CORE COURSES (24 Semester Hours)

COURSE NO.	TITLE	HRS.	GRADE	TERM / YR	TRANSFER CREDIT
PA 6601	Research Methods in Public Administration	3			
PA 6610	Foundations of Public Administration *(Complete w/in first 9 sh)*	3			
	Select One of the following: PA 6620 OR PA 6646	3			
PA 6622	Public Policy	3			
PA 6624	Public Human Resource Management	3			
PA 6650	Governmental Budgeting and Financial Management	3			
PA 6674	Ethics in Public Administration	3			
PA 6699	Capstone in Public Administration *(Final course of program)*	3			

SELECT ONE*: (3 Semester Hours)

PA 6603	Economics for Public Management	3			
PA 6631*	Program Evaluation	3			

* Nonprofit Management Concentration must take PA 6631 Program Evaluation

CONCENTRATION: (9 Semester Hours) ◯ Government Contracting ◯ Justice Administration ◯ National Security Affairs ◯ Nonprofit Management ◯ Public Health Administration ◯ Public Human Resource Management ◯ Public Management

PA 6694 - INTERNSHIP : (3 Semester Hours) ◯ Required ◯ Waived

3				

ITEMS TO BE DISCUSSED:

- ☐ Conditional or Unconditional Admission
- ☐ Availability of faculty for academic advising
- ☐ Petition for transfer credit once unconditionally admitted
- ☐ Class attendance
- ☐ Drop and Withdrawal procedures; deadlines and consequences
- ☐ Petition for an incomplete grade
- ☐ Student participation in course and program evaluation
- ☐ Curriculum coursework sequencing

ADMISSION STATUS:

TYPE	DATE	INITIALS
Conditional		
Unconditional		
Test Scores		

2013-2014

TROY Publication 384-201
Revised 3/2013

TROY UNIVERSITY

GRADUATE CERTIFICATE IN GOVERNMENT CONTRACTING

Certificate Plan and Progress Record
Certificate Verification
12 Semester-Hours

Name: _____ Student ID#: _____ Campus: _____

Address: _____ Email: _____

DEGREE REQUIREMENTS:

1. Admitted to the MPA program
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)

COURSE NO.	TITLE	HRS	GRADE	TERM/YR	TRANSFER CREDIT
PA 6645	Managing Government Contracts	3			
PA 6647	Advanced Contract Administration	3			
PA 6648	Contract Negotiation	3			
PA 6649	Government Contract Law	3			

ITEMS TO BE DISCUSSED:

- ☐ Conditional or Unconditional Admission
- ☐ Availability of faculty for academic advising
- ☐ Petition for transfer credit once unconditionally admitted (3 SH maximum)
- ☐ Class attendance
- ☐ Drop and Withdrawal procedures; deadlines and consequences
- ☐ Petition for an incomplete grade
- ☐ Student participation in course and program evaluation

ADMISSION STATUS:

TYPE	DATE	INITIALS
Conditional		
Unconditional		
Residency		
Test Scores		