

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

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

Students should consult the General Regulations section of the Graduate Catalog for additional information regarding Graduate School admission requirements, transfer credit, and other critical policies and procedures.

Mission

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Prerequisite Requirements

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Curriculum (30-31 sh)

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Core Courses (9 sh)

CS 5549	3	<i>Analysis of Algorithms</i>
CS 5545	3	<i>Computer Architecture</i>
CS 5550	3	<i>Operating System Principles</i>

Select one option below:

Non-Thesis Option: (24 sh)

Required Courses: (9 sh)

CS 6630	3	<i>Introduction to Bioinformatics</i>
CS 6682	3	<i>Machine Learning</i>
CS 6625	3	<i>Specialized Study in Computer Science</i>

Elective Courses (15 sh)

Select 15 hours of advisor- approved Computer Science graduate courses.

Thesis Option: (24 sh)

Required Courses: (12 sh)

CS 6630	3	<i>Introduction to Bioinformatics</i>
CS 6682	3	<i>Machine Learning</i>
CS 6699	3-6	<i>Research and Thesis (6 sh)</i>

Elective Courses (12 sh)

Select 12 hours of advisor- approved Computer Science graduate courses.

Computer Network and Security Concentration

Core Courses (9 sh)

CS 5549	3	<i>Analysis of Algorithms</i>
CS 5545	3	<i>Computer Architecture</i>
CS 5550	3	<i>Operating System Principles</i>

Select one option below:

Non-Thesis Option: (24 sh)

Required Courses: (9 sh)

CS 6676	3	<i>Advanced Computer Network</i>
CS 6674	3	<i>Network and Information Security</i>
CS 6625	3	<i>Specialized Study in Computer Science</i>

Elective Courses (15 sh)

Select 15 hours of advisor- approved Computer Science graduate courses.

Thesis Option: (24 sh)

Required Courses: (12 sh)

CS 6676	3	<i>Advanced Computer Network</i>
CS 6674	3	<i>Network and Information Security</i>
CS 6699	3-6	<i>Research and Thesis</i>

Elective Courses (12 sh)

Select 12 hours of advisor- approved Computer Science Degree Requirements

Elective Courses (15 sh)

Select 15 hours of advisor-approved Computer Science graduate courses.

Thesis Option: (24 sh)**Required Courses: (12 sh)**

CS 6680	3	Advanced Software Engineering
CS 6640	3	Advanced Database Concepts
CS 6699	3-6	Research and Thesis (6)

Elective Courses (12 sh)

Select 12 hours of advisor-approved Computer Science graduate courses.

Comprehensive Exam

The comprehensive exam consists of three sections. The first section is a written exam consisting of 10 questions. The second section is a practical exam consisting of three questions. The third section is a research paper presentation. The exam is held at the end of the semester.

Thesis/Project Proposal

The thesis or project proposal is a written document that describes the student's research project. It is due at the end of the semester. The proposal should include a title page, a table of contents, an abstract, an introduction, a literature review, a methodology section, a results section, a discussion section, and a conclusion. The proposal should be 10-15 pages long.

Elective Courses: (12/15 sh)

CS 6635	3	Image Processing
CS 6640	3	

MASTER OF SCIENCE IN ENVIRONMENTAL AND BIOLOGICAL SCIENCES

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Purpose and Goals

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Degree Requirements

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Degree Requirements

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IR	6665	3	<i>Readings in International Relations</i>
IR	6668	3	<i>Thesis</i>
IR	6669	3	<i>Thesis</i>
IR	6681	3	<i>Tribalism and Colonialism in Africa</i>
IR	6684	3	<i>Violence in Latin America</i>
IR	6685	3	<i>Terrorism and Political Violence</i>
IR	6686	3	<i>Latin American Security</i>
IR	6687	3	<i>Latin American Political Economy</i>
IR	6688	3	<i>Political Islam</i>
PA	6610	3	<i>Foundations of Public Administration</i>
PA	6622	3	<i>Public Policy</i>

NATIONAL SECURITY AFFAIRS CONCENTRATION *43'uj"

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Students must choose any three of the following courses: (9 sh)

HIS	5504	3	<i>Military History of the United States</i>
IR	5524	3	<i>Contemporary American Foreign Policy</i>
IR	5540	3	<i>Conflict Processes</i>
IR	5541	3	<i>Middle Eastern Security</i>
IR	5552	3	<i>International Law</i>
IR	6600R	3	<i>Selected Topics in International Processes</i>

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TROY UNIVERSITY
M.S. - BIOMEDICAL SCIENCES (BMS)

30-31 Semester-Hour Program

DEGREE REQUIREMENTS:

Students must complete 30-31 semester hours of graduate coursework. The program requires the completion of the following courses:

CORE COURSES

Course #	Course Title	Prerequisites	Hours	Grade	Notes

THESIS OPTION

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ELECTIVE COURSES:

Course #	Course Title	Prerequisites	Hours	Grade	Notes

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:

Students must discuss the following items with their advisor:

- 1. The student's current academic standing.
- 2. The student's progress toward completion of the program.
- 3. The student's financial situation and the availability of financial aid.
- 4. The student's health and personal life.
- 5. The student's career goals and the availability of job opportunities.
- 6. The student's academic and professional ethics.
- 7. The student's academic and professional conduct.
- 8. The student's academic and professional integrity.
- 9. The student's academic and professional responsibility.
- 10. The student's academic and professional accountability.

ADMISSION STATUS:

TROY UNIVERSITY
MASTER OF SCIENCE IN COMPUTER SCIENCE
Bioinformatics Concentration

33 Semester-Hour Program

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DEGREE REQUIREMENTS:

Students must complete the following courses with a grade of B or better. Courses may be completed in any order.

MS-CSCI 5000: Introduction to Bioinformatics (3)

MS-CSCI 5010: Data Mining (3)

MS-CSCI 5020: Machine Learning (3)

MS-CSCI 5030: Computational Biology (3)

MS-CSCI 5040: Systems Biology (3)

MS-CSCI 5050: Network Biology (3)

MS-CSCI 5060: Evolutionary Biology (3)

MS-CSCI 5070: Genomics (3)

MS-CSCI 5080: Proteomics (3)

MS-CSCI 5090: Metabolomics (3)

MS-CSCI 5100: Integrative Bioinformatics (3)

REQUIRED CORE COURSES

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10/1/2019
10/1/2019
10/1/2019

ITEMS TO BE DISCUSSED:

- 1. ...
- 2. ...
- 3. ...
- 4. ...
- 5. ...
- 6. ...
- 7. ...
- 8. ...
- 9. ...
- 10. ...

Progress:

THIS FORM REQUIRED FOR EVERY REGISTRATION, EVERY TERM

10/1/2019
10/1/2019
10/1/2019

ITEMS TO BE DISCUSSED:

- 1. ...
- 2. ...
- 3. ...
- 4. ...
- 5. ...
- 6. ...
- 7. ...
- 8. ...
- 9. ...
- 10. ...

Progress:

THIS FORM REQUIRED FOR EVERY REGISTRATION, EVERY TERM

TROY UNIVERSITY
MASTER OF SCIENCE IN COMPUTER SCIENCE
Software Development Concentration

33 Semester-Hour Program

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DEGREE REQUIREMENTS:

12 credits of graduate-level work in computer science, including the following:

TROY UNIVERSITY
MASTER OF SCIENCE IN CRIMINAL JUSTICE

30 / 36 Semester-Hour Program

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DEGREE REQUIREMENTS:

The student must complete the following courses with a grade of B or better. The student must also complete a thesis project. The student must complete a minimum of 30 semester hours of graduate credit.

REQUIRED CORE COURSES

Course	Prerequisites	Grade	Hours	Term	Year
MS-CJ-500		B	3		
MS-CJ-501		B	3		
MS-CJ-502		B	3		
MS-CJ-503		B	3		
MS-CJ-504		B	3		
MS-CJ-505		B	3		

THESIS OPTION*:

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

30/36 Semester-Hour Program

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DEGREE REQUIREMENTS:

TROY UNIVERSITY
MASTER of SCIENCE IN INTERNATIONAL RELATIONS

36 Semester-Hour Program

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**TROY UNIVERSITY
MASTER OF PUBLIC ADMINISTRATION**

36 / 39 Semester-Hour Program

First Name: # Last Name:

Address: City:

DEGREE REQUIREMENTS:

Students must complete 36 semester hours of graduate coursework, including the following core courses and electives. All courses must be completed with a grade of B or better. Electives must be approved by the advisor.

REQUIRED CORE COURSES

Course Number	Course Title	Prerequisites	Grade	Notes
MA 601	Public Administration Theory			
MA 602	Public Administration Practice			
MA 603	Public Administration Research			
MA 604	Public Administration History			
MA 605	Public Administration Law			
MA 606	Public Administration Ethics			
MA 607	Public Administration Finance			
MA 608	Public Administration Evaluation			
MA 609	Public Administration Leadership			
MA 610	Public Administration Communication			
MA 611	Public Administration Organization			
MA 612	Public Administration Policy			
MA 613	Public Administration Management			
MA 614	Public Administration Planning			
MA 615	Public Administration Budgeting			
MA 616	Public Administration Personnel			
MA 617	Public Administration Procurement			
MA 618	Public Administration Information Systems			
MA 619	Public Administration Quality Management			
MA 620	Public Administration Risk Management			
MA 621	Public Administration Security			
MA 622	Public Administration Emergency Management			
MA 623	Public Administration Disaster Preparedness			
MA 624	Public Administration Crisis Management			
MA 625	Public Administration Business Continuity			
MA 626	Public Administration Incident Response			
MA 627	Public Administration Business Recovery			
MA 628	Public Administration Business Resilience			
MA 629	Public Administration Business Continuity Planning			
MA 630	Public Administration Business Impact Analysis			
MA 631	Public Administration Business Risk Assessment			
MA 632	Public Administration Business Risk Management			
MA 633	Public Administration Business Risk Assessment			
MA 634	Public Administration Business Risk Management			
MA 635	Public Administration Business Risk Assessment			
MA 636	Public Administration Business Risk Management			
MA 637	Public Administration Business Risk Assessment			
MA 638	Public Administration Business Risk Management			
MA 639	Public Administration Business Risk Assessment			
MA 640	Public Administration Business Risk Management			

TROY UNIVERSITY
MASTER OF SCIENCE IN SOCIAL SCIENCE
36 Semester-Hour Program

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II

TROY UNIVERSITY
GRADUATE CERTIFICATE IN BIOMEDICAL SCIENCES

18-19 Semester-Hours

1		#		

DEGREE REQUIREMENTS:

1. Graduate Certificate in Biomedical Sciences (18 semester hours)

2. Graduate Certificate in Biomedical Sciences (18 semester hours)

3. Graduate Certificate in Biomedical Sciences (18 semester hours)

4. Graduate Certificate in Biomedical Sciences (18 semester hours)

5. Graduate Certificate in Biomedical Sciences (18 semester hours)

REQUIRED COURSES:

ITEMS TO BE DISCUSSED:

- 1. Graduate Certificate in Biomedical Sciences (18 semester hours)
- 2. Graduate Certificate in Biomedical Sciences (18 semester hours)
- 3. Graduate Certificate in Biomedical Sciences (18 semester hours)
- 4. Graduate Certificate in Biomedical Sciences (18 semester hours)
- 5. Graduate Certificate in Biomedical Sciences (18 semester hours)
- 6. Graduate Certificate in Biomedical Sciences (18 semester hours)
- 7. Graduate Certificate in Biomedical Sciences (18 semester hours)
- 8. Graduate Certificate in Biomedical Sciences (18 semester hours)

TROY UNIVERSITY
GRADUATE CERTIFICATE IN PUBLIC HEALTH ADMINISTRATION
18 Semester-Hours

1		#		

DEGREE REQUIREMENTS:

1. Completion of the Graduate Certificate in Public Health Administration (18 semester hours).

2. Completion of the following courses:

3. Completion of the following courses:

4. Completion of the following courses:

5. Completion of the following courses:

REQUIRED CERTIFICATE COURSES:

Course	Prerequisites	Grade	Grade	Grade	Grade