

*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*

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

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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.

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## 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 written exam consisting of 10 questions. The third section is a written exam consisting of 10 questions. 3 sections of the exam.

**Thesis/Project Proposal**

The thesis or project proposal is a written document that describes the student's research or project. It should be 10-15 pages long and include a title page, abstract, introduction, literature review, methodology, results, discussion, and conclusion. The student must submit a proposal to their advisor and the department chair for approval.

**Elective Courses: (12/15 sh)**

CS 6635	3	Image Processing
CS 6640	3	

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## MASTER OF SCIENCE IN ENVIRONMENTAL AND BIOLOGICAL SCIENCES

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**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.**

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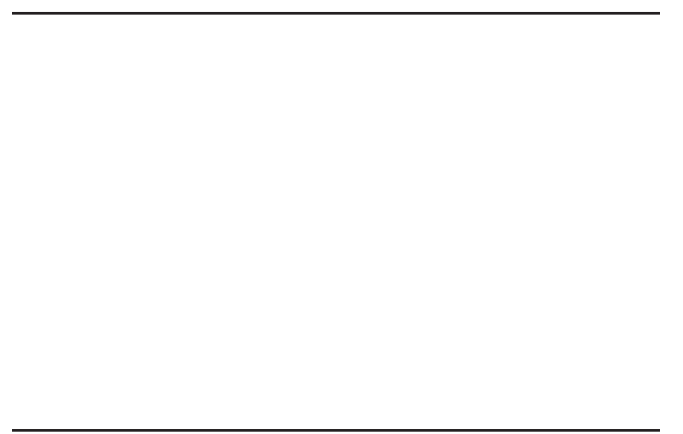
### **Purpose and Goals**

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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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**Specialized Elective Courses**

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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 consists of 12 credits of required coursework and 18-21 credits of elective coursework. Students must complete a thesis or capstone project. The program is designed to be completed in 2-3 years of full-time study.

**CORE COURSES**

Course #	Course Title	Credits	Prerequisites	Notes

**THESIS OPTION**

Option	Description	Credits	Notes

**ELECTIVE COURSES:**

Course #	Course Title	Credits	Prerequisites	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 should discuss the following items with their advisor:

- Program requirements and degree plan
- Prerequisites for all courses
- Availability of courses and sections
- Thesis or capstone project requirements
- Financial aid and scholarship opportunities
- Graduation requirements and timeline
- Professional development and networking opportunities
- Research and publication opportunities
- Industry and government career opportunities
- Graduate school preparation and applications

**ADMISSION STATUS:**

Admission Status	Notes

**TROY UNIVERSITY**  
**MASTER OF SCIENCE IN COMPUTER SCIENCE**  
**Artificial Intelligence Concentration**  
**33 Semester-Hour Program**

1. **Prerequisites:** CSCI 300, CSCI 301, CSCI 302, CSCI 303, CSCI 304, CSCI 305, CSCI 306, CSCI 307, CSCI 308, CSCI 309, CSCI 310, CSCI 311, CSCI 312, CSCI 313, CSCI 314, CSCI 315, CSCI 316, CSCI 317, CSCI 318, CSCI 319, CSCI 320, CSCI 321, CSCI 322, CSCI 323, CSCI 324, CSCI 325, CSCI 326, CSCI 327, CSCI 328, CSCI 329, CSCI 330, CSCI 331, CSCI 332, CSCI 333, CSCI 334, CSCI 335, CSCI 336, CSCI 337, CSCI 338, CSCI 339, CSCI 340, CSCI 341, CSCI 342, CSCI 343, CSCI 344, CSCI 345, CSCI 346, CSCI 347, CSCI 348, CSCI 349, CSCI 350, CSCI 351, CSCI 352, CSCI 353, CSCI 354, CSCI 355, CSCI 356, CSCI 357, CSCI 358, CSCI 359, CSCI 360, CSCI 361, CSCI 362, CSCI 363, CSCI 364, CSCI 365, CSCI 366, CSCI 367, CSCI 368, CSCI 369, CSCI 370, CSCI 371, CSCI 372, CSCI 373, CSCI 374, CSCI 375, CSCI 376, CSCI 377, CSCI 378, CSCI 379, CSCI 380, CSCI 381, CSCI 382, CSCI 383, CSCI 384, CSCI 385, CSCI 386, CSCI 387, CSCI 388, CSCI 389, CSCI 390, CSCI 391, CSCI 392, CSCI 393, CSCI 394, CSCI 395, CSCI 396, CSCI 397, CSCI 398, CSCI 399

**DEGREE REQUIREMENTS:**

1. **Corequisites:** CSCI 300, CSCI 301, CSCI 302, CSCI 303, CSCI 304, CSCI 305, CSCI 306, CSCI 307, CSCI 308, CSCI 309, CSCI 310, CSCI 311, CSCI 312, CSCI 313, CSCI 314, CSCI 315, CSCI 316, CSCI 317, CSCI 318, CSCI 319, CSCI 320, CSCI 321, CSCI 322, CSCI 323, CSCI 324, CSCI 325, CSCI 326, CSCI 327, CSCI 328, CSCI 329, CSCI 330, CSCI 331, CSCI 332, CSCI 333, CSCI 334, CSCI 335, CSCI 336, CSCI 337, CSCI 338, CSCI 339, CSCI 340, CSCI 341, CSCI 342, CSCI 343, CSCI 344, CSCI 345, CSCI 346, CSCI 347, CSCI 348, CSCI 349, CSCI 350, CSCI 351, CSCI 352, CSCI 353, CSCI 354, CSCI 355, CSCI 356, CSCI 357, CSCI 358, CSCI 359, CSCI 360, CSCI 361, CSCI 362, CSCI 363, CSCI 364, CSCI 365, CSCI 366, CSCI 367, CSCI 368, CSCI 369, CSCI 370, CSCI 371, CSCI 372, CSCI 373, CSCI 374, CSCI 375, CSCI 376, CSCI 377, CSCI 378, CSCI 379, CSCI 380, CSCI 381, CSCI 382, CSCI 383, CSCI 384, CSCI 385, CSCI 386, CSCI 387, CSCI 388, CSCI 389, CSCI 390, CSCI 391, CSCI 392, CSCI 393, CSCI 394, CSCI 395, CSCI 396, CSCI 397, CSCI 398, CSCI 399



**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. The student must also complete a thesis project and a final exam. The student must also complete a minimum of 33 semester hours of coursework.

**REQUIRED CORE COURSES**


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**ITEMS TO BE DISCUSSED:**

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- 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**  
**Distributed Systems Concentration**

**33 Semester-Hour Program**

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**DEGREE REQUIREMENTS:**


**PREREQUISITE COURSES**


**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**


**Non-Thesis Option Required Courses:**


**Thesis Option Required Courses:**


**ADVISOR APPROVED ELECTIVES:**


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**ITEMS TO BE DISCUSSED:**

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**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 Computer Science courses, 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 also 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**

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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.

MA 501 - Introduction to Public Administration (3)

MA 502 - Public Administration Theory (3)

MA 503 - Public Administration Practice (3)

MA 504 - Public Administration Research (3)

MA 505 - Public Administration Ethics (3)

MA 506 - Public Administration Law (3)

MA 507 - Public Administration History (3)

MA 508 - Public Administration Systems (3)

MA 509 - Public Administration Policy (3)

MA 510 - Public Administration Evaluation (3)

**REQUIRED CORE COURSES**

Course Number	Course Title	Credits	Prerequisites	Notes
MA 501	Introduction to Public Administration	3		
MA 502	Public Administration Theory	3		
MA 503	Public Administration Practice	3		
MA 504	Public Administration Research	3		
MA 505	Public Administration Ethics	3		
MA 506	Public Administration Law	3		
MA 507	Public Administration History	3		
MA 508	Public Administration Systems	3		
MA 509	Public Administration Policy	3		
MA 510	Public Administration Evaluation	3		

**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		#		12	
2				13	

**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**

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**DEGREE REQUIREMENTS:**

Graduate Certificate in Public Health Administration  
18 Semester-Hours  
The Graduate Certificate in Public Health Administration is designed for students who have completed a master's degree in a related field and wish to gain additional knowledge and skills in public health administration. The certificate program consists of 18 semester hours of coursework, including:

**REQUIRED CERTIFICATE COURSES:**

Course Number	Course Title	Credits	Prerequisites	Notes