

*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**

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**Thesis/Project Proposal**

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**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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The purpose of the Master of Science in Environmental and Biological Sciences is to provide students with the knowledge and skills necessary to conduct research and contribute to the advancement of the field. The program is designed to prepare students for careers in research, education, and industry. The program includes coursework in environmental science, biology, and statistics, as well as a research thesis. The program is accredited by the Southern Association of Schools and Colleges (SACSCOC).

1. The student will demonstrate a strong understanding of the fundamental principles of environmental and biological sciences.
2. The student will be able to apply their knowledge and skills to solve complex problems in the field.
3. The student will be able to communicate their findings effectively in written and oral form.
4. The student will be able to work independently and as part of a team.
5. The student will be able to conduct research and contribute to the advancement of the field.

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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.
- 4. The student's health and safety.
- 5. The student's academic and professional goals.
- 6. The student's understanding of the program requirements.
- 7. The student's understanding of the university's policies.
- 8. The student's understanding of the program's expectations.
- 9. The student's understanding of the program's outcomes.
- 10. The student's understanding of the program's impact on their future.

**ADMISSION STATUS:**


**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. Complete 33 semester hours of graduate coursework, including the following:

- CSCI 500: Artificial Intelligence (3)
- CSCI 501: Machine Learning (3)
- CSCI 502: Deep Learning (3)
- CSCI 503: Natural Language Processing (3)
- CSCI 504: Computer Vision (3)
- CSCI 505: Robotics (3)
- CSCI 506: Reinforcement Learning (3)
- CSCI 507: Knowledge Representation (3)
- CSCI 508: Expert Systems (3)
- CSCI 509: Fuzzy Logic (3)
- CSCI 510: Evolutionary Algorithms (3)
- CSCI 511: Swarm Intelligence (3)
- CSCI 512: Bio-Inspired Computing (3)
- CSCI 513: Quantum Computing (3)
- CSCI 514: Quantum Cryptography (3)
- CSCI 515: Quantum Machine Learning (3)
- CSCI 516: Quantum Artificial Intelligence (3)
- CSCI 517: Quantum Natural Language Processing (3)
- CSCI 518: Quantum Computer Vision (3)
- CSCI 519: Quantum Robotics (3)
- CSCI 520: Quantum Reinforcement Learning (3)
- CSCI 521: Quantum Knowledge Representation (3)
- CSCI 522: Quantum Expert Systems (3)
- CSCI 523: Quantum Fuzzy Logic (3)
- CSCI 524: Quantum Evolutionary Algorithms (3)
- CSCI 525: Quantum Swarm Intelligence (3)
- CSCI 526: Quantum Bio-Inspired Computing (3)
- CSCI 527: Quantum Quantum Computing (3)
- CSCI 528: Quantum Quantum Cryptography (3)
- CSCI 529: Quantum Quantum Machine Learning (3)
- CSCI 530: Quantum Quantum Artificial Intelligence (3)
- CSCI 531: Quantum Quantum Natural Language Processing (3)
- CSCI 532: Quantum Quantum Computer Vision (3)
- CSCI 533: Quantum Quantum Robotics (3)
- CSCI 534: Quantum Quantum Reinforcement Learning (3)
- CSCI 535: Quantum Quantum Knowledge Representation (3)
- CSCI 536: Quantum Quantum Expert Systems (3)
- CSCI 537: Quantum Quantum Fuzzy Logic (3)
- CSCI 538: Quantum Quantum Evolutionary Algorithms (3)
- CSCI 539: Quantum Quantum Swarm Intelligence (3)
- CSCI 540: Quantum Quantum Bio-Inspired Computing (3)
- CSCI 541: Quantum Quantum Quantum Computing (3)
- CSCI 542: Quantum Quantum Quantum Cryptography (3)
- CSCI 543: Quantum Quantum Quantum Machine Learning (3)
- CSCI 544: Quantum Quantum Quantum Artificial Intelligence (3)
- CSCI 545: Quantum Quantum Quantum Natural Language Processing (3)
- CSCI 546: Quantum Quantum Quantum Computer Vision (3)
- CSCI 547: Quantum Quantum Quantum Robotics (3)
- CSCI 548: Quantum Quantum Quantum Reinforcement Learning (3)
- CSCI 549: Quantum Quantum Quantum Knowledge Representation (3)
- CSCI 550: Quantum Quantum Quantum Expert Systems (3)
- CSCI 551: Quantum Quantum Quantum Fuzzy Logic (3)
- CSCI 552: Quantum Quantum Quantum Evolutionary Algorithms (3)
- CSCI 553: Quantum Quantum Quantum Swarm Intelligence (3)
- CSCI 554: Quantum Quantum Quantum Bio-Inspired Computing (3)
- CSCI 555: Quantum Quantum Quantum Quantum Computing (3)
- CSCI 556: Quantum Quantum Quantum Quantum Cryptography (3)
- CSCI 557: Quantum Quantum Quantum Quantum Machine Learning (3)
- CSCI 558: Quantum Quantum Quantum Quantum Artificial Intelligence (3)
- CSCI 559: Quantum Quantum Quantum Quantum Natural Language Processing (3)
- CSCI 560: Quantum Quantum Quantum Quantum Computer Vision (3)
- CSCI 561: Quantum Quantum Quantum Quantum Robotics (3)
- CSCI 562: Quantum Quantum Quantum Quantum Reinforcement Learning (3)
- CSCI 563: Quantum Quantum Quantum Quantum Knowledge Representation (3)
- CSCI 564: Quantum Quantum Quantum Quantum Expert Systems (3)
- CSCI 565: Quantum Quantum Quantum Quantum Fuzzy Logic (3)
- CSCI 566: Quantum Quantum Quantum Quantum Evolutionary Algorithms (3)
- CSCI 567: Quantum Quantum Quantum Quantum Swarm Intelligence (3)
- CSCI 568: Quantum Quantum Quantum Quantum Bio-Inspired Computing (3)
- CSCI 569: Quantum Quantum Quantum Quantum Quantum Computing (3)
- CSCI 570: Quantum Quantum Quantum Quantum Quantum Cryptography (3)
- CSCI 571: Quantum Quantum Quantum Quantum Quantum Machine Learning (3)
- CSCI 572: Quantum Quantum Quantum Quantum Quantum Artificial Intelligence (3)
- CSCI 573: Quantum Quantum Quantum Quantum Quantum Natural Language Processing (3)
- CSCI 574: Quantum Quantum Quantum Quantum Quantum Computer Vision (3)
- CSCI 575: Quantum Quantum Quantum Quantum Quantum Robotics (3)
- CSCI 576: Quantum Quantum Quantum Quantum Quantum Reinforcement Learning (3)
- CSCI 577: Quantum Quantum Quantum Quantum Quantum Knowledge Representation (3)
- CSCI 578: Quantum Quantum Quantum Quantum Quantum Expert Systems (3)
- CSCI 579: Quantum Quantum Quantum Quantum Quantum Fuzzy Logic (3)
- CSCI 580: Quantum Quantum Quantum Quantum Quantum Evolutionary Algorithms (3)
- CSCI 581: Quantum Quantum Quantum Quantum Quantum Swarm Intelligence (3)
- CSCI 582: Quantum Quantum Quantum Quantum Quantum Bio-Inspired Computing (3)
- CSCI 583: Quantum Quantum Quantum Quantum Quantum Quantum Computing (3)
- CSCI 584: Quantum Quantum Quantum Quantum Quantum Quantum Cryptography (3)
- CSCI 585: Quantum Quantum Quantum Quantum Quantum Quantum Machine Learning (3)
- CSCI 586: Quantum Quantum Quantum Quantum Quantum Quantum Artificial Intelligence (3)
- CSCI 587: Quantum Quantum Quantum Quantum Quantum Quantum Natural Language Processing (3)
- CSCI 588: Quantum Quantum Quantum Quantum Quantum Quantum Computer Vision (3)
- CSCI 589: Quantum Quantum Quantum Quantum Quantum Quantum Robotics (3)
- CSCI 590: Quantum Quantum Quantum Quantum Quantum Quantum Reinforcement Learning (3)
- CSCI 591: Quantum Quantum Quantum Quantum Quantum Quantum Knowledge Representation (3)
- CSCI 592: Quantum Quantum Quantum Quantum Quantum Quantum Expert Systems (3)
- CSCI 593: Quantum Quantum Quantum Quantum Quantum Quantum Fuzzy Logic (3)
- CSCI 594: Quantum Quantum Quantum Quantum Quantum Quantum Evolutionary Algorithms (3)
- CSCI 595: Quantum Quantum Quantum Quantum Quantum Quantum Swarm Intelligence (3)
- CSCI 596: Quantum Quantum Quantum Quantum Quantum Quantum Bio-Inspired Computing (3)
- CSCI 597: Quantum Quantum Quantum Quantum Quantum Quantum Quantum Computing (3)
- CSCI 598: Quantum Quantum Quantum Quantum Quantum Quantum Quantum Cryptography (3)
- CSCI 599: Quantum Quantum Quantum Quantum Quantum Quantum Quantum Machine Learning (3)



**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 500: Introduction to Bioinformatics (3)

MS-CSCI 501: Data Mining (3)

MS-CSCI 502: Machine Learning (3)

MS-CSCI 503: Systems Biology (3)

MS-CSCI 504: Computational Genomics (3)

MS-CSCI 505: Computational Proteomics (3)

MS-CSCI 506: Computational Metabolomics (3)

MS-CSCI 507: Computational Microbiology (3)

MS-CSCI 508: Computational Immunology (3)

MS-CSCI 509: Computational Neuroscience (3)

MS-CSCI 510: Computational Toxicology (3)

MS-CSCI 511: Computational Pharmacology (3)

MS-CSCI 512: Computational Biophysics (3)

MS-CSCI 513: Computational Chemistry (3)

MS-CSCI 514: Computational Physics (3)

MS-CSCI 515: Computational Mathematics (3)

MS-CSCI 516: Computational Statistics (3)

MS-CSCI 517: Computational Linguistics (3)

MS-CSCI 518: Computational Law (3)

MS-CSCI 519: Computational History (3)

MS-CSCI 520: Computational Art (3)

**REQUIRED CORE COURSES**


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10/1/2014  
10/1/2014  
10/1/2014

**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**  
**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:**


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 or capstone project. The student must also complete a minimum of 30 semester hours of graduate coursework.

**REQUIRED CORE COURSES**

Course Number	Course Title	Prerequisites	Grade	Hours	Notes
MS-CJ-500	Introduction to Criminal Justice		B	3	
MS-CJ-501	Research Methods in Criminal Justice		B	3	
MS-CJ-502	Legal Issues in Criminal Justice		B	3	
MS-CJ-503	Advanced Topics in Criminal Justice		B	3	
MS-CJ-504	Thesis		B	6	

**THESIS OPTION\*:**

Thesis Option:



**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 36 semester hours of graduate coursework, including the following:

- 12 hours of core courses
- 6 hours of elective coursework
- 6 hours of research or thesis
- 6 hours of internship or practicum

**REQUIRED CORE COURSES**

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

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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