

At-A-Glance



Minimum GPA
2.0



Limited Access
No



Additional Program
Application
No



Test Required
No



Online Option
No



Total Credits
62

Important Notes

- Must earn a grade C or higher in courses unless otherwise indicated.
- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)
MAC 2311 Calculus I (4)	MAC 2312 Calculus II (4)
CHM 1045 General Chemistry I w/Lab (4)	CHM 1046 General Chemistry II w/Lab (4)
Approved Humanities Course (3)	Approved Humanities Course (3)
CHM 1901 Freshman Special Topics I (1)	CHM 1902 Freshman Special Topics II (1)
Total: 15	Total: 15

YEAR 2

Fall	Spring
CHM 2210 Organic Chemistry I w/Lab (4)	CHM 2211 Organic Chemistry II w/Lab (4)
CHM 3120 Analytical Chemistry w/Lab (4)	CHM 4130 Instrumental Analysis w/Lab (4)
BSC 1010 General Biology I w/Lab (4)	BSC 1011 General Biology II w/Lab (4)
Approved Social Science Course (3)	Approved African American History Course (3)
CHM 2903 Sophomore Special Topics I (1)	CHM 2904 Sophomore Special Topics II (1)
Total: 16	Total: 16



JOB OUTLOOK

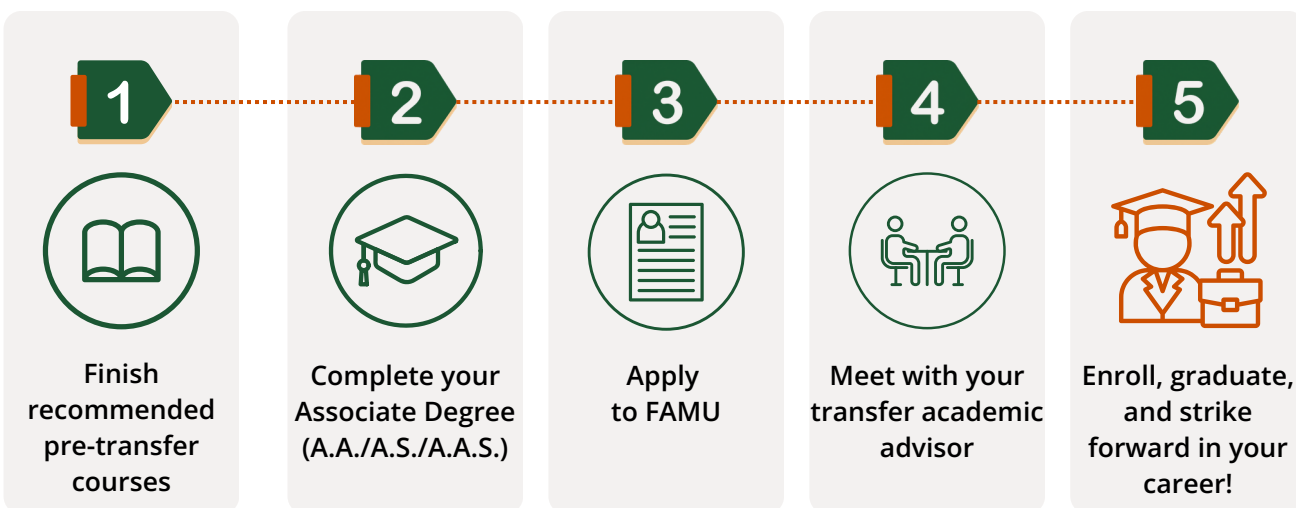
Overall employment of chemists and materials scientists is projected to grow 5 percent from 2024 to 2034, faster than the average for all occupations. About 7,000 openings for chemists and materials scientists are projected each year, on average, over the decade.

Career Opportunities

- Lab Technician / Laboratory Analyst
- Research Assistant (academic, industry, or government labs)
- Quality Control (QC) or Quality Assurance (QA) Analyst
- Chemical Technician
- Environmental Scientist or Technician
- Toxicologist
- Forensic Scientist
- Chemical Safety Officer
- Medicinal Chemist
- Cosmetic Chemist
- Materials Chemist



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/chemistry-bs.php>

Contact:

Dr. James H. Bouyer
(850) 599-3638
james.bouyer@famu.edu

TRANSFER PATHWAY GUIDE

CHEMISTRY (BIOCHEMISTRY)

Bachelor of Science (B.S.)

College of Science and Technology

FAMU

Guide No. CST-02

At-A-Glance



Minimum GPA
2.0



Limited Access
No



Additional Program
Application
No



Test Required
No



Online Option
No



Total Credits
62

Important Notes

- Must earn a grade C or higher in courses unless otherwise indicated.
- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)
MAC 2311 Calculus I (4)	MAC 2312 Calculus II (4)
CHM 1045 General Chemistry I w/Lab (4)	CHM 1046 General Chemistry II w/Lab (4)
Approved Humanities Course (3)	Approved Humanities Course (3)
CHM 1901 Freshman Special Topics I (1)	CHM 1902 Freshman Special Topics II (1)
Total: 15	Total: 15

YEAR 2

Fall	Spring
CHM 2210 Organic Chemistry I w/Lab (4)	CHM 2211 Organic Chemistry II w/Lab (4)
CHM 3120 Analytical Chemistry w/Lab (4)	CHM 4130 Instrumental Analysis w/Lab (4)
BSC 1010 General Biology I w/Lab (4)	BSC 1011 General Biology II w/Lab (4)
Approved Social Science Course (3)	Approved African American History Course (3)
CHM 2903 Sophomore Special Topics I (1)	CHM 2904 Sophomore Special Topics II (1)
Total: 16	Total: 16



JOB OUTLOOK

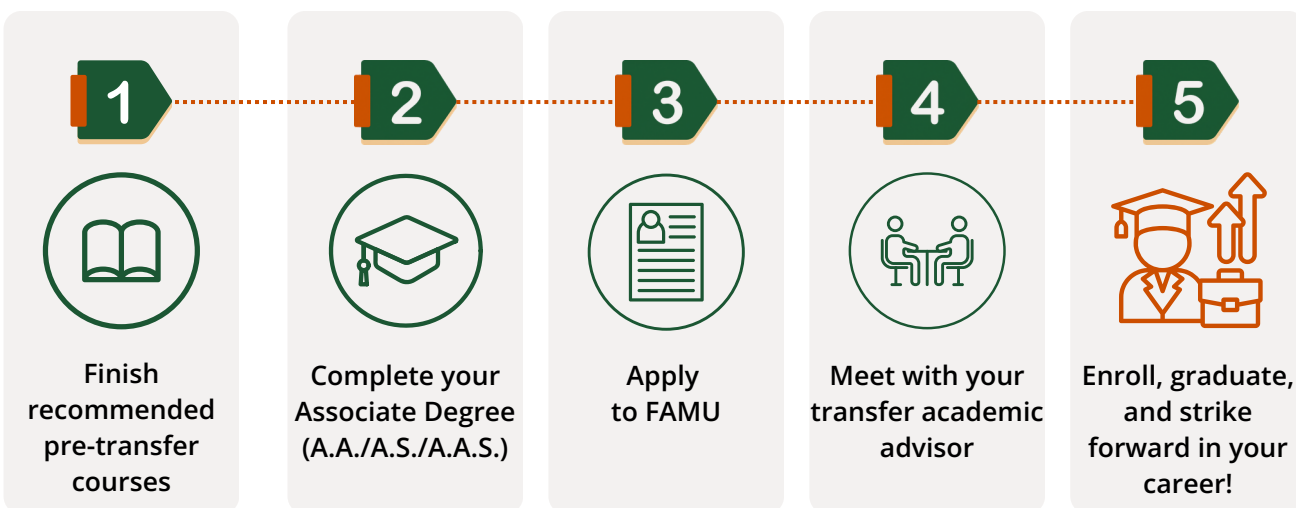
Employment of biochemists and biophysicists is projected to grow 6 percent from 2024 to 2034, faster than the average for all occupations. About 2,900 openings for biochemists are projected each year, on average, over the decade.

Career Opportunities

- Biochemist
- Toxicologist
- Forensic Scientist
- Cosmetic Chemist
- Laboratory Technician
- Biomedical Researcher
- Biochemical Safety Officer
- Cosmetic Chemist
- Medicinal Chemist



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/chemistry-biochemistry-bs.php>

Contact:

Dr. James H. Bouyer
(850) 599-3638
james.bouyer@famu.edu

At-A-Glance

Minimum GPA
2.0Limited Access
NoAdditional Program
Application
NoTest Required
NoOnline Option
NoTotal Credits
61

Important Notes

- Must earn a grade C or higher in courses unless otherwise indicated.
- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)
STA 2023 Intro Probability & Statistics (3)	MAC 2311 Calculus I (4)
CHM 1045 General Chemistry I w/Lab (4)	CHM 1046 General Chemistry II w/Lab (4)
Approved Humanities Course (3)	Approved Humanities Course (3)
CHM 1901 Freshman Special Topics I (1)	CHM 1902 Freshman Special Topics II (1)
Total: 14	Total: 15

YEAR 2

Fall	Spring
CHM 2210 Organic Chemistry I w/Lab (4)	CHM 2211 Organic Chemistry II w/Lab (4)
CHM 3120 Analytical Chemistry w/Lab (4)	CHM 4130 Instrumental Analysis w/Lab (4)
BSC 1010 General Biology I w/Lab (4)	BSC 1011 General Biology II w/Lab (4)
Approved Social Science Course (3)	Approved African American History Course (3)
CHM 2903 Sophomore Special Topics I (1)	CHM 2904 Sophomore Special Topics II (1)
Total: 16	Total: 16



JOB OUTLOOK

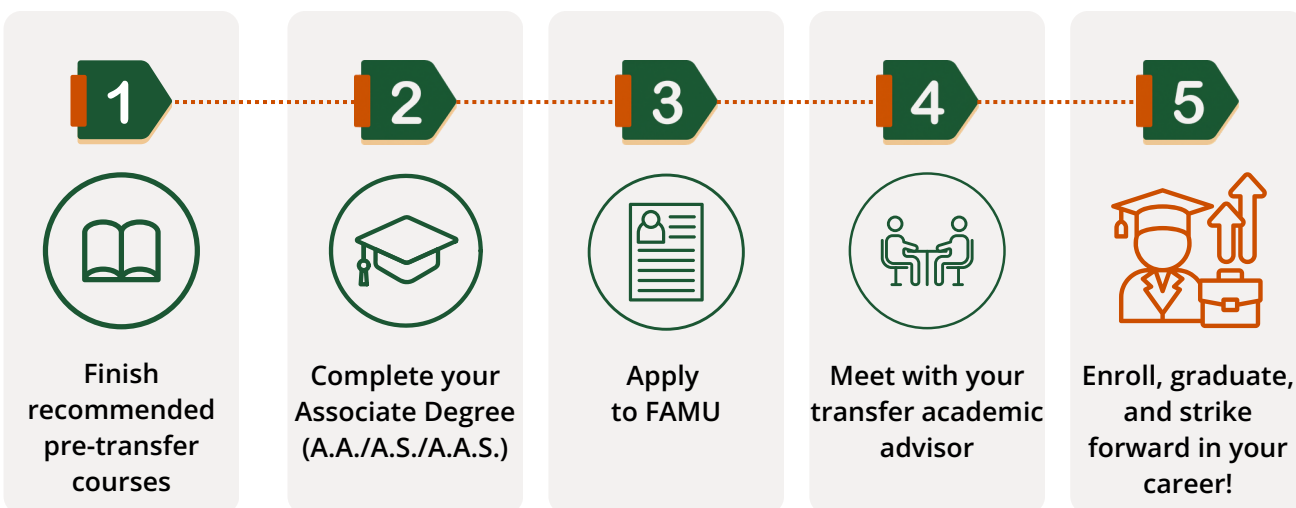
Overall employment of physicians and surgeons is projected to grow 3 percent from 2024 to 2034, about as fast as the average for all occupations. About 23,600 openings for physicians and surgeons are projected each year, on average, over the decade.

Career Opportunities

- Dentist
- Physician
- Chiropractor
- Neuroscientist
- Epidemiologist
- Medical Scientist
- Physician Assistant
- Biomedical Researcher



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/chemistry-accs-pre-medicine-pre-dentistry-bs.php>

Contact:

Dr. James H. Bouyer
(850) 599-3638
james.bouyer@famu.edu

TRANSFER PATHWAY GUIDE BIOLOGY, PRE-MEDICINE/PRE- DENTISTRY

Bachelor of Science (B.S.)

College of Science and Technology

FAMU

Guide No. CST-04

At-A-Glance



Minimum GPA
2.0



Limited Access
No



Additional Program
Application
No



Test Required
No



Online Option
No



Total Credits
68

Important Notes

- Must earn a grade C or higher in courses unless otherwise indicated.
- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	BSC 1011 General Biology II Lecture (3)
MAC 2311 Calculus I (4)	BSC 1011L General Biology II Lab (1)
BSC 1010 General Biology I Lecture (3)	CHM 1046 General Chemistry II w/Lab (4)
BSC 1010L General Biology Lab I (1)	CHM 1046L General Chemistry II Lab (1)
CHM 1045 General Chemistry I (3)	ENC 1102 Freshmen Comm Skills II (3)
CHM 1045L General Chemistry Lab (1)	STA 2023 Intro to Probability Statistics I (3)
SLS 1101 1ST Yr Experience- College Transition (2)	BSC 3926 Professional Development for Biology or HSC3535 (2)
Total: 17	Total: 17

YEAR 2

Fall	Spring	Summer
PCB 2033 Introduction to Ecology (3)	CHM 2211 Organic Chemistry II Lecture (3)	AMH 2091 Intro to African-American History or AFA 3104 (3)
BSC 2085 Anatomy and Physiology I (3)	CHM 2211L Organic Chemistry II Lab (1)	2XXX Free Elective (3)
BSC 2085L Anatomy and Physiology I Lab (1)	BSC 2086 Anatomy and Physiology (3)	
CHM 2210 Organic Chemistry I (3)	BSC 2086L Anatomy and Physiology Lab (1)	
CHM 2210L Organic Chemistry I Lab (1)	Humanities Elective (3)	
Humanities Elective (3)	PSY 2012 Intro to Psychology (3)	
Total: 15	Total: 14	Total: 6



JOB OUTLOOK

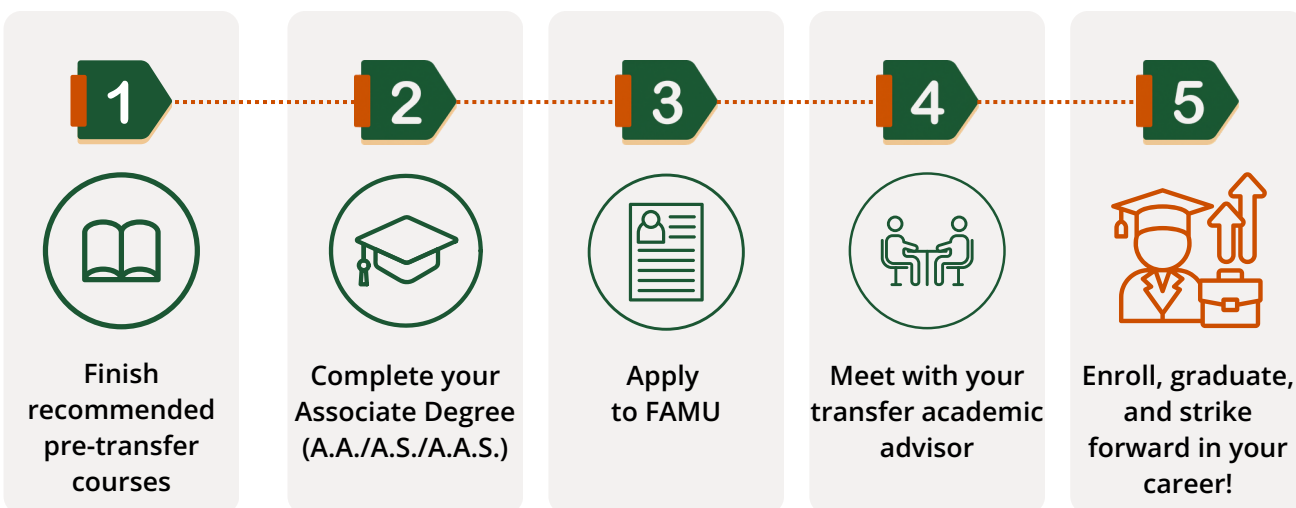
The U.S. Bureau of Labor Statistics projected job growth for biology graduates between 3 and 20 percent from 2024 to 2034, and salaries ranging from \$44,200 (Medical assistants) to \$133,260 for Physician assistants.

Career Opportunities

- Entry-Level Biologist
- Research Assistant
- Clinical Laboratory Technologist
- Medical Laboratory Technician
- Community College Biology Instructor
- Medical/Clinical Technician
- Public Health Worker
- Biological Technician
- High School Biology Teacher (with certification)
- Science Writer or Technical Writer



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/biology-pre-medicine-pre-dentistry-bs.php>

Contact:

Lekan M. Latinwo, Ph.D.
Professor/Department Chair
(850) 599-3050
lekan.latinwo@famu.edu

At-A-Glance



Minimum GPA
2.0



Limited Access
No



Additional Program Application
No



Test Required
No



Online Option
No



Total Credits
68

Important Notes

- Must earn a grade C or higher in courses unless otherwise indicated.
- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)
MAC 2311 Calculus I (4)	MAC 1114 Trigonometric Functions (3)
BSC 1010 General Biology I Lecture (3)	BSC 1011 General Biology II Lecture (3)
BSC 1010L General Biology Lab I (1)	BSC 1011L General Biology II Lab (1)
CHM 1045 General Chemistry I (3)	CHM 1046 General Chemistry II Lecture (3)
CHM 1045L General Chemistry Lab (1)	CHM 1046L General Chemistry II Lab (1)
SLS 1101 1ST Yr Experience- College Transition (2)	BSC 3926 Professional Development for Biology (3)
Total: 17	Total: 17

YEAR 2

Fall	Spring	Summer
CHM 2210 Organic Chemistry I (3)	CHM 2211 Organic Chemistry II Lecture (3)	AMH 2091 Intro to African-American History or AFA 3104 (3)
CHM 2210L Organic Chemistry I (1)	CHM 2211 Organic Chemistry II Lab (1)	2XXX Free Elective (3)
Humanities Elective (3)	BSC 2086 Anatomy and Physiology I (3)	
MAC 2311 Calculus I (4)	BSC 2086L Anatomy and Physiology I Lab (1)	
Social Science (3)	Humanities Elective (3)	
	PCB 2033 Intro to Ecology Lecture (2)	
	PCB 2033L Intro to Ecology Lab (1)	
Total: 14	Total: 14	Total: 6



JOB OUTLOOK

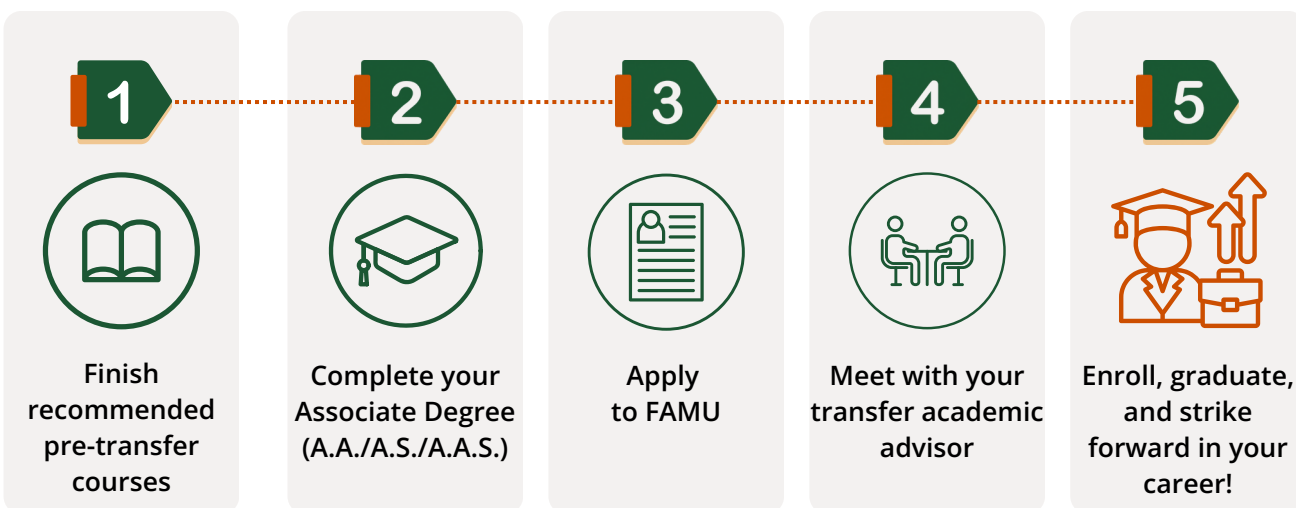
The U.S. Bureau of Labor Statistics projected job growth for biology graduates between 3 and 20 percent from 2024 to 2034, and salaries ranging from \$44,200 (Medical assistants) to \$133,260 for Physician assistants.

Career Opportunities

- Biologist
- Research Assistant
- Clinical Laboratory Technologist
- Medical Laboratory Technician
- Environmental Scientist
- Public Health Worker
- Physician Assistant
- Biological Technician



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/biology-bs.php>

Contact:

Lekan M. Latinwo, Ph.D.
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(850) 599-3050
lekan.latinwo@famu.edu

MATHEMATICAL SCIENCES

Bachelor of Science (B.S.)

At-A-Glance



Minimum GPA
2.0



Limited Access
No



Additional Program Application
No



Test Required
No



Online Option
No



Total Credits
60

Important Notes

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- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)
MAC 3211 Calculus I (4)	MAC 2312 Calculus II (4)
AMH 2091 African American History (3)	COP 3014C Programming in C Language (4)
Humanities Core (3)	Humanities Course (3)
ISC 1058 Scientists Life Skills (2)	
Total: 15	Total: 14

YEAR 2

Fall	Spring
MAC 2313 Calculus III (5)	MHF 4202 Foundations of Mathematics (3)
STA 2023 Elementary Statistics (3)	MAP 2302 Differential Equations (3)
MAS 3105 Linear Algebra (3)	Social Science Core (3)
Approved Sciences Sequence (4)	Approved Sciences Sequence (4)
	Elective (3)
Total: 15	Total: 16



JOB OUTLOOK

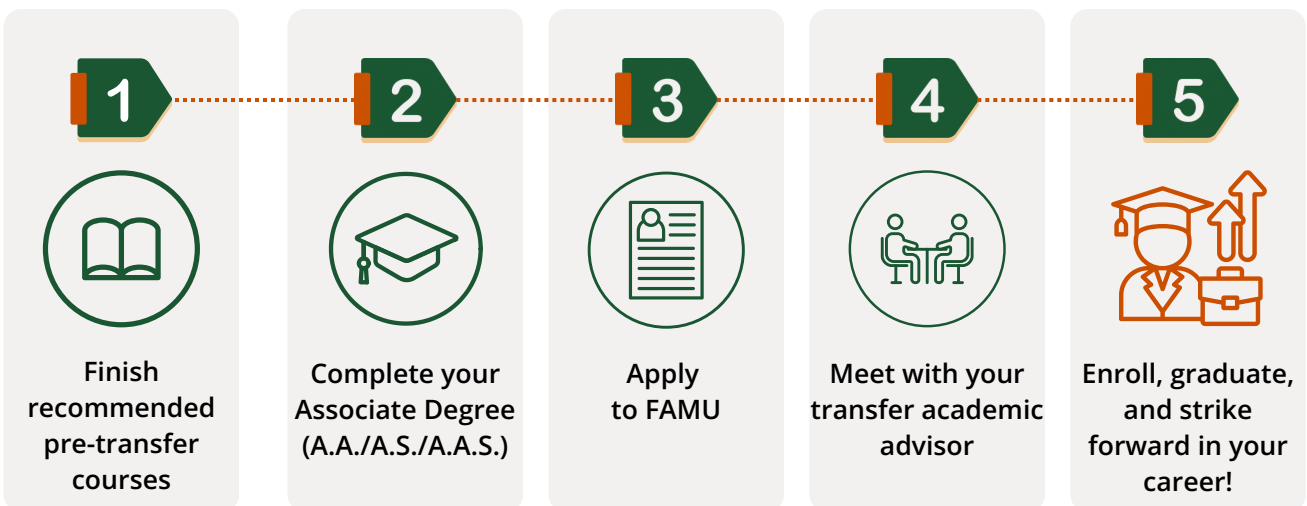
Overall employment in mathematics and statistics occupations is projected to grow significantly from 2024 to 2034, much faster than the average for all occupations. Increasing reliance on data analysis, mathematical modeling, artificial intelligence, cybersecurity, and quantitative decision-making is expected to drive demand for professionals with strong mathematical skills. Thousands of openings for mathematicians, statisticians, and related professionals are projected each year, on average, over the decade.

Career Opportunities

- Ph.D. Students
- Research Assistant
- Graduate Teaching Assistant
- Instructors/Lecturers/Teaching Professors
- Tenure professors (a doctorate degree is required)
- Researchers in national scientific laboratories
- Researchers in industries or businesses



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/mathematical-sciences-bs.php>

Contact:

Dr. Ajith Gunaratne
(850) 561-2560
ajith.gunaratne@FAMU.edu

At-A-Glance



Minimum GPA
2.0



Limited Access
No



Additional Program
Application
No



Test Required
No



Online Option
No



Total Credits
63

Important Notes

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- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)
MAC 3211 Calculus I (4)	MAC 2312 Calculus II (4)
AMH 2091 African American History (3)	STA 2023 Probability and Statistics (3)
Humanities Core (3)	COP 3014C Programming in C Language (4)
ISC 1058 Scientists Life Skills (2)	MAN 2543 Intro to Business Systems (3)
Total: 15	Total: 17

YEAR 2

Fall	Spring
MAC 2313 Calculus III (5)	COT 3100 Discrete Mathematics (3)
STA 3034 Mathematical Statistics (3)	MAP 2302 Differential Equations (3)
MAS 3105 Linear Algebra (3)	Social Science Core (3)
Approved Sciences Sequence (4)	Approved Sciences Sequence (4)
SPC 2608 Public Speaking (3)	Humanities Elective (3)
Total: 15	Total: 16



JOB OUTLOOK

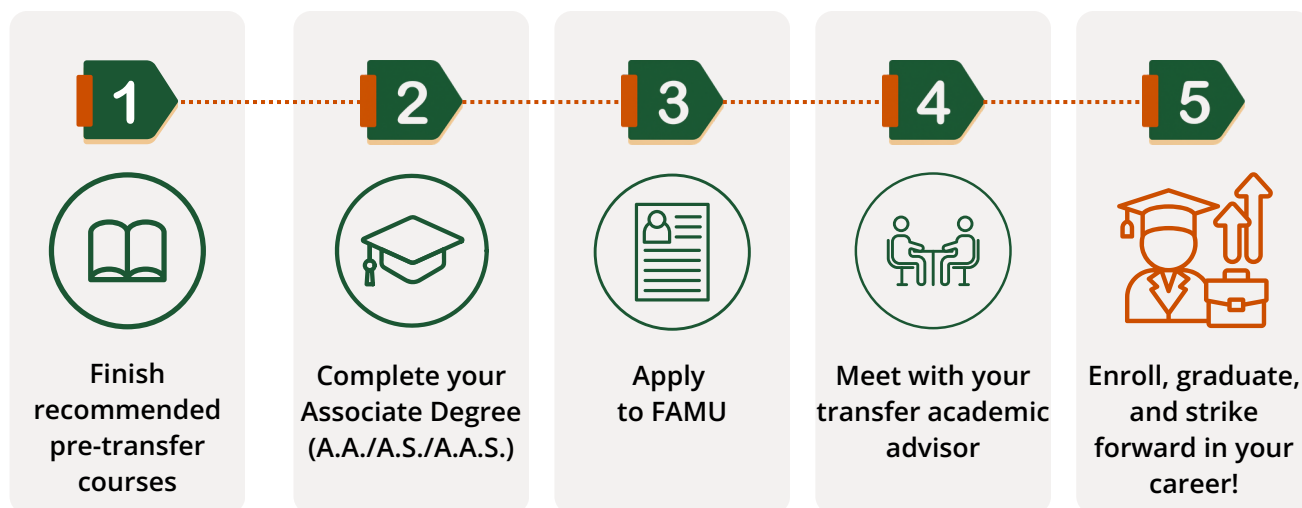
Overall employment in mathematics and statistics occupations is projected to grow significantly from 2024 to 2034, much faster than the average for all occupations. Increasing reliance on data analysis, mathematical modeling, artificial intelligence, cybersecurity, and quantitative decision-making is expected to drive demand for professionals with strong mathematical skills. Thousands of openings for mathematicians, statisticians, and related professionals are projected each year, on average, over the decade.

Career Opportunities

- Insurance Industry
- Financial Planning
- Banking
- Investment Management
- Government Institutions



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/mathematics-actuarial-sciences-bs.php>

Contact:

Dr. Ajith Gunaratne

(850) 561-2560

ajith.gunaratne@FAMU.edu

MATHEMATICS (TRADITIONAL / PURE)

Bachelor of Science (B.S.)

College of Science and Technology

Guide No. CST-08

At-A-Glance

-  **Minimum GPA**
2.0
-  **Limited Access**
No
-  **Additional Program Application**
No
-  **Test Required**
No
-  **Online Option**
No
-  **Total Credits**
63

Important Notes

- Must earn a grade C or higher in courses unless otherwise indicated.
- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)
MAC 3211 Calculus I (4)	MAC 2312 Calculus II (4)
AMH 2091 African American History (3)	COP 3014C Fund of Programming (4)
Humanities Elective (3)	SPC 2608 Public Speaking (3)
SLS 1101 1st Year Experience College Transition (2)	Humanities Elective (3)
Total: 15	Total: 17

YEAR 2

Fall	Spring
MAC 2313 Calculus III (5)	MHF 4202 Foundations of Mathematics d (3)
STA 2023 Elementary Statistics (3)	MAP 2302 Differential Equations (3)
MAS 3105 Linear Algebra (3)	Social Science Elective (3)
Approved Sciences Sequence (4)	Approved Sciences Sequence (4)
	Elective (3)
Total: 15	Total: 16



JOB OUTLOOK

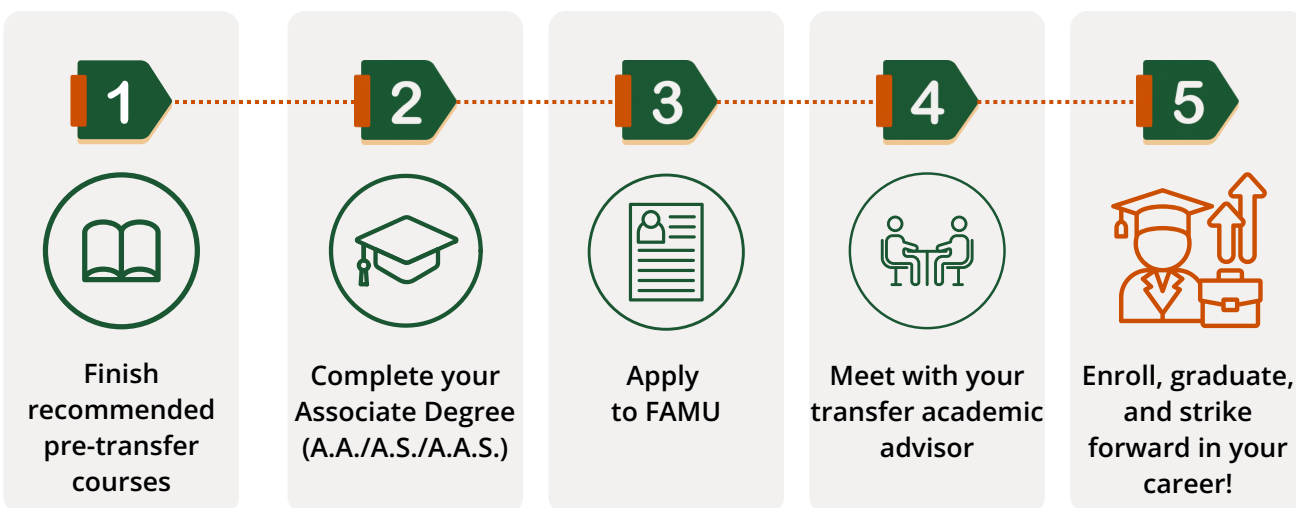
Overall employment in mathematics and statistics occupations is projected to grow significantly from 2024 to 2034, much faster than the average for all occupations. Increasing reliance on data analysis, mathematical modeling, artificial intelligence, cybersecurity, and quantitative decision-making is expected to drive demand for professionals with strong mathematical skills. Thousands of openings for mathematicians, statisticians, and related professionals are projected each year, on average, over the decade.

Career Opportunities

- Ph.D. Students
- Research Assistant
- Graduate Teaching Assistant
- Instructors/Lecturers/Teaching Professors
- Tenure Professors (a doctorate degree is required)
- Theoretical Physicists
- Researchers in industries or businesses



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/mathematics-traditional-pure-bs.php>

Contact:

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TRANSFER PATHWAY GUIDE

APPLIED PHYSICS

Bachelor of Science (B.S.)

College of Science and Technology

FAMU

Guide No. CST-09

At-A-Glance



Minimum GPA
2.0



Limited Access
No



Additional Program
Application
No



Test Required
No



Online Option
No



Total Credits
60

Important Notes

- Must earn a grade C or higher in courses unless otherwise indicated.
- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)
MAC 2311 Calculus I (4)	MAC 2312 Calculus II (4)
PHY 2048/2048L General Physics I w/Lab (5)	PHY 2049/2049L General Physics II w/Lab (5)
PHI 1100 Critical Inquiry (3)	AMH 2091 Intro to African-American History or AFA 3104 (3)
Total: 15	Total: 15

YEAR 2

Fall	Spring
PHZ 3113 Mathematical Methods of Physics I (3)	PHZ 3114 Mathematical Methods of Physics II (3)
MAP 2302 Differential Equations (3)	CHM 1046/CHM 1046L General Chemistry w/Lab - II (4)
CHM 1045/CHM 1045L General Chemistry/Lab - I (4)	Humanities Elective (3)
BSC 1005/1005L Biological Science w/Lab (4)	Elective Humanities or Computer Science (3)
Elective Humanities or Calculus III (3)	
Total: 17	Total: 13



JOB OUTLOOK

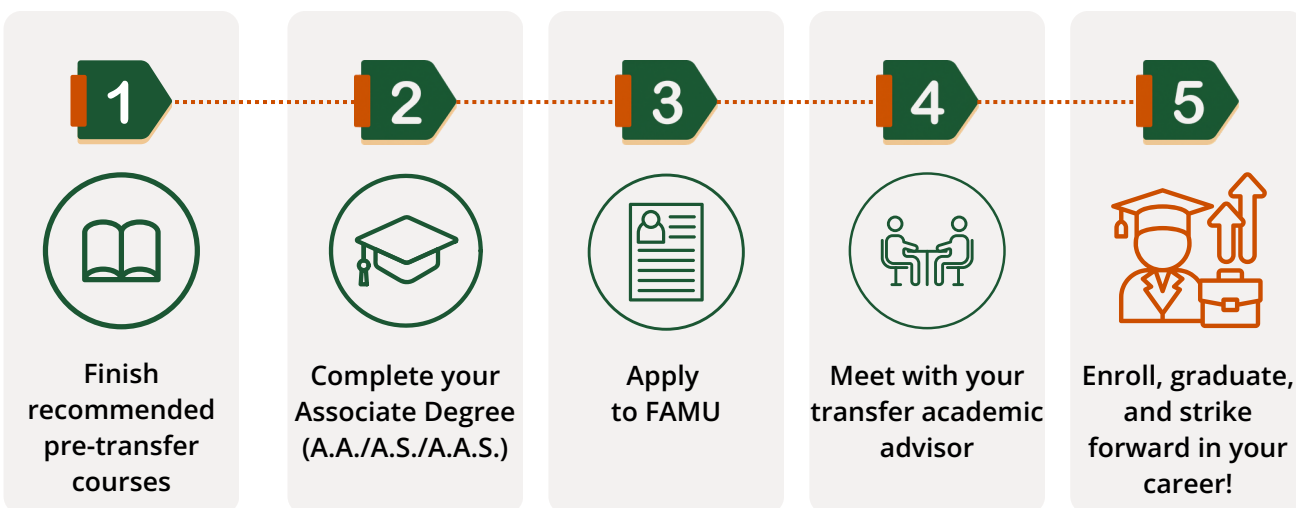
Overall employment of physicists is projected to grow 4 percent from 2024 to 2034, about as fast as the average for all occupations. About 1,800 openings for physicists and astronomers are projected each year, on average, over the decade.

Career Opportunities

- **Analysis:** Financial, business, economic and scientific analysis are all options for physicists and other professionals with physics degrees, as many of these roles apply predictive modeling, statistical research and data analysis.
- **Mechanics and Engineering Design:** Many physicists work in the engineering sector, where they help engineers and designers develop and test machines, systems and individual components, including aircraft, propellant systems and various mechanical parts that support chemical and physical processes.
- **Medical and Health Care:** Physicists can also specialize in the medical and pharmaceutical sectors, where they may work with researchers and clinicians to develop medicines, health care treatments or medical equipment.
- **Academics:** Physics graduates with doctorate degrees can often find opportunities teaching in universities and educational institutions.



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/physics-applied-physics-bs.php>

Contact:

(850) 599-3470

science@FAMU.edu

PHYSICS (PURE)

Bachelor of Science (B.S.)

College of Science and Technology

FAMU

Guide No. CST-10

At-A-Glance



Minimum GPA
2.0



Limited Access
No



Additional Program
Application
No



Test Required
No



Online Option
No



Total Credits
60

Important Notes

- Must earn a grade C or higher in courses unless otherwise indicated.
- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)
MAC 2311 Calculus I (4)	MAC 2312 Calculus II (4)
PHY 2048/2048L General Physics I w/Lab (5)	PHY 2049/2049L General Physics II w/Lab (5)
PHI 1100 Critical Inquiry (3)	AMH 2091 Intro to African-American History or AFA 3104 (3)
Total: 15	Total: 15

YEAR 2

Fall	Spring
PHZ 3113 Mathematical Methods of Physics I (3)	PHZ 3114 Mathematical Methods of Physics II (3)
MAP 2302 Differential Equations (3)	CHM 1046/CHM 1046L General Chemistry w/Lab - II (4)
CHM 1045/CHM 1045L General Chemistry/Lab - I (4)	Humanities Elective (3)
BSC 1005/1005L Biological Science w/Lab (4)	Elective Humanities or Computer Science (3)
Elective Humanities or Calculus III (3)	
Total: 17	Total: 13



JOB OUTLOOK

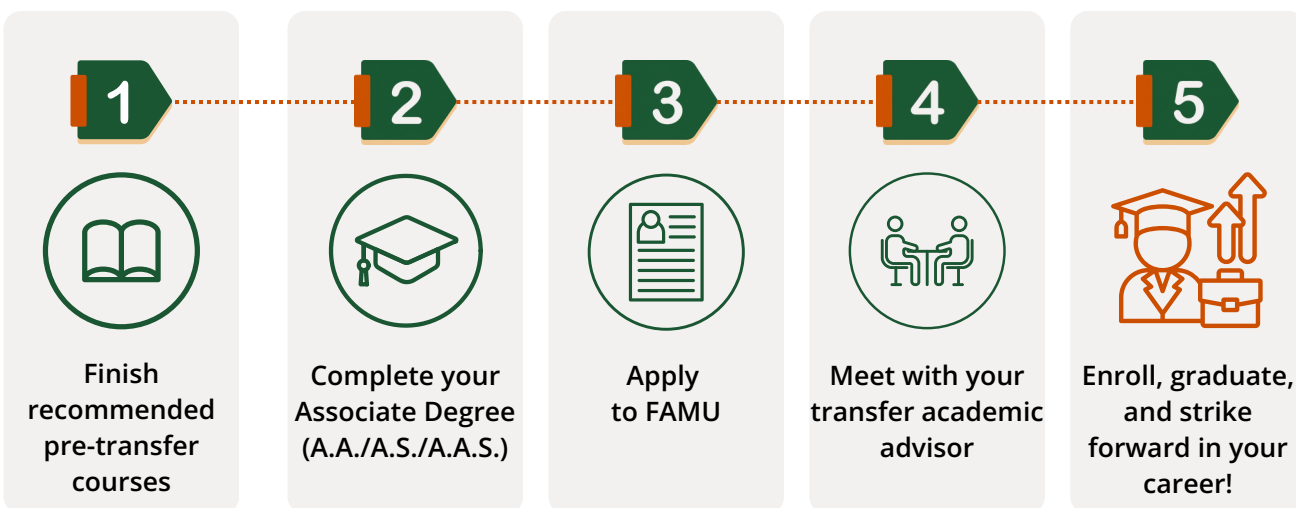
Overall employment of physicists is projected to grow 4 percent from 2024 to 2034, about as fast as the average for all occupations. About 1,800 openings for physicists and astronomers are projected each year, on average, over the decade.

Career Opportunities

- **Analysis:** Financial, business, economic and scientific analysis are all options for physicists and other professionals with physics degrees, as many of these roles apply predictive modeling, statistical research and data analysis.
- **Mechanics and Engineering Design:** Many physicists work in the engineering sector, where they help engineers and designers develop and test machines, systems and individual components, including aircraft, propellant systems and various mechanical parts that support chemical and physical processes.
- **Medical and Health Care:** Physicists can also specialize in the medical and pharmaceutical sectors, where they may work with researchers and clinicians to develop medicines, health care treatments or medical equipment.
- **Academics:** Physics graduates with doctorate degrees can often find opportunities teaching in universities and educational institutions.



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/physics-applied-physics-bs.php>

Contact:

(850) 599-3470

science@FAMU.edu

COMPUTER INFORMATION SYSTEMS

Bachelor of Science (B.S.)

College of Science and Technology

At-A-Glance

Minimum GPA
2.0Limited Access
NoAdditional Program
Application
NoTest Required
NoOnline Option
NoTotal Credits
59

Important Notes

- Must earn a grade C or higher in courses unless otherwise indicated.
- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)
MAC 2233 Business Calculus (3)	AFA 3104 African American Experience (3)
PSC 1121C Intro to Physical Science (4)	COP 3014C Fund of Programming (3)
General Elective (3)	COP 3828 Web Prog & Design (3)
CIS 1920 Professional Development I (2)	SLS 1101 1st Year Experience-College Transition (2)
Total: 15	Total: 14

YEAR 2

Fall	Spring
COT 2104 Mathematics for Computing (3)	BSC 1005C Biological Science (3)
ECO 2013 Principles of Economics I (3)	ECO 2023 Principles of Economics II (3)
Humanities Elective (3)	COP 3530 Programming, Data Structures, and File Structures (3)
SPC 2608 Public Speaking (3)	CDA 3101C Computer Concepts & Organization (3)
COP 3330 Intro to Object Orient Program (3)	Humanities Elective (3)
Total: 17	Total: 13



JOB OUTLOOK

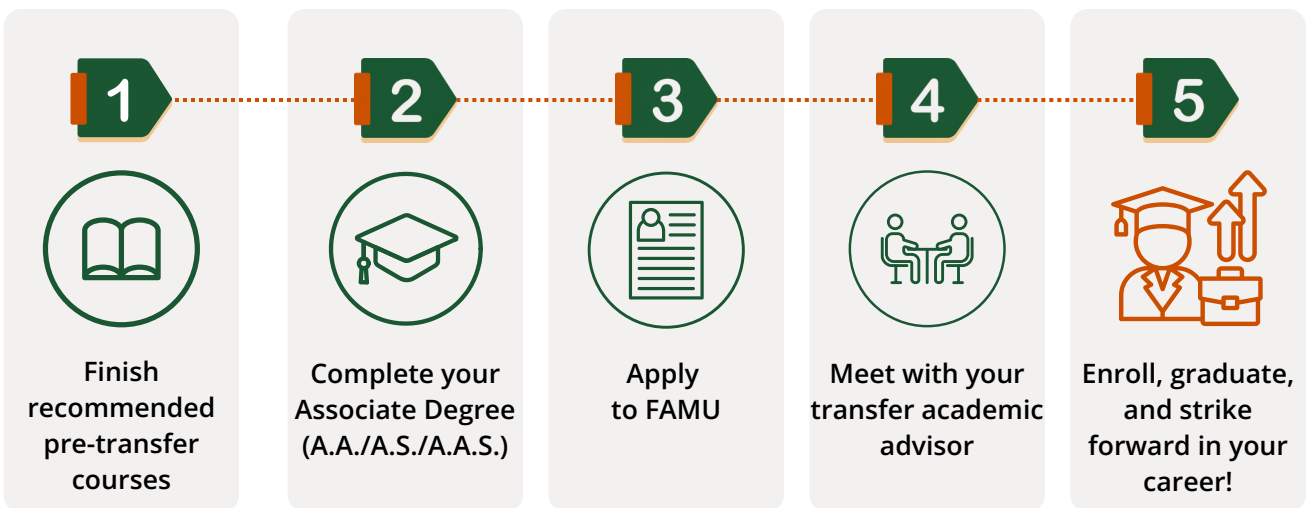
Employment of computer and information systems managers is projected to grow 15 percent from 2024 to 2034, much faster than the average for all occupations. About 55,600 openings for computer and information systems managers are projected each year, on average, over the decade.

Career Opportunities

- IT Support Specialist / Help Desk Technician
- Systems Administrator
- Network Administrator
- Database Administrator (DBA)
- Business Analyst
- IT Project Manager (entry-level/junior)
- Web Developer
- Application Support Analyst
- Computer Systems Analyst
- Technical Support Engineer
- Data Analyst (especially with Excel/SQL/Python)



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/computer-information-systems-bs.php>

Contact:

(850) 599-3050

science@FAMU.edu

COMPUTER SCIENCE

Bachelor of Science (B.S.)

College of Science and Technology

FAMU

Guide No. CST-12

At-A-Glance



Minimum GPA
2.0



Limited Access
No



Additional Program
Application
No



Test Required
No



Online Option
No



Total Credits
62

Important Notes

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- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)
MAC 2311 Calculus I (4)	MAC 2312 Calculus II (4)
BSC 1005 Biological Science w/Lab (4)	COP 3014C Fund of Programming (4)
Social Science Elective (3)	AFA 3104 African American Experience (3)
SPC 2608 Public Speaking (3)	ISC 1058 Scientist Life Skills -OR- SLS 1101 1st Year Experience-College Transition (2)
Total: 17	Total: 16

YEAR 2

Fall	Spring
CIS 4250 Computer Ethics and Professional Responsibility (3)	COT 3101 Discrete Structures II (3)
COT 3100 Discrete Structures I (3)	COP 3530 Programming, Data Structures, and File Structures (3)
COP 3330 Intro to Object Orient Program (3)	Humanities Elective (3)
Social Science Elective (3)	General Elective (2)
CIS 4360 Introduction to Computer Security (3)	General Elective (3)
Total: 15	Total: 14



JOB OUTLOOK

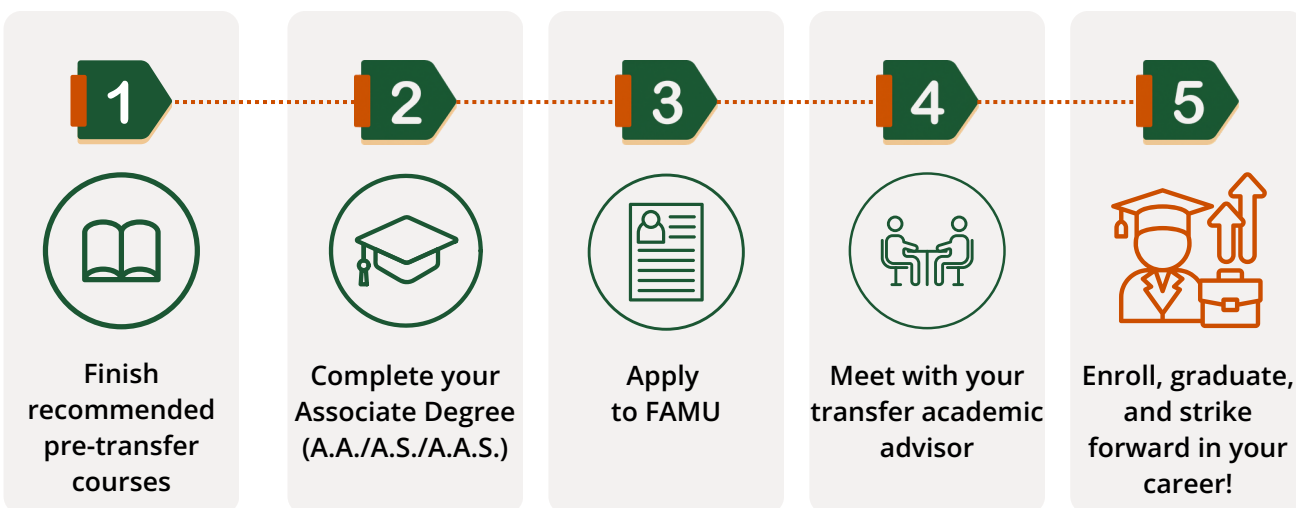
Overall employment in computer and information technology occupations is projected to grow much faster than the average for all occupations from 2024 to 2034.

Career Opportunities

- Software Developer
- Data Analyst
- Cybersecurity Analyst
- Systems Administrator
- Web Developer
- Database Administrator
- IT Consultant
- Research Scientist in Computing



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/computer-science-bs.php>
<https://cst.famu.edu/departments-and-centers/department-of-computer-and-information-sciences/bs-computer-science.php>

Contact:

(850) 599-3050

myra.mcnair@FAMU.edu

CYBERSECURITY

Bachelor of Science (B.S.)

College of Science and Technology

At-A-Glance

Minimum GPA
2.0Limited Access
NoAdditional Program
Application
NoTest Required
NoOnline Option
NoTotal Credits
70

Important Notes

- Must earn a grade C or higher in courses unless otherwise indicated.
- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring	Summer
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshmen Comm Skills II (3)	Humanities Elec (3)
MAC 1147 Pre-Calculus (3)	STA 2023 Probability and Statistics I (3)	Humanities Elec (3)
CNT 2000 Computer Systems and Network Fundamentals (3)	BSC 1005 Biological Science w/ Lab (4)	AFA 3104 African-Amer Experience (3)
PSY 2012 Intro to Psychology (3)	COP 3014C Fund of Programming (4)	
ISC 1058 Scientist Life Skills -or- SLS 1101 1st Year Experience-College Transition (2)	CIS 1920 Professional Development I (2)	
Total: 14	Total: 16	Total: 9

YEAR 2

Fall	Spring
ENC 3243 Technical Writing (3)	ECO 2013 Principles of Economics I (3)
COT 2104 Mathematics for Computing (3)	CNT 4504 Data Comm & Organizational Network (3)
PSC 1121 Physical Science w/Lab (4)	COP 3366 Introduction to C# (3)
SPC 2608 Public Speaking (3)	CIS 4250 Computer Ethics and Professional Responsibility (3)
CIS 4360 Introduction to Security (3)	COP 3710 Database Management System (3)
Total: 16	Total: 15



JOB OUTLOOK

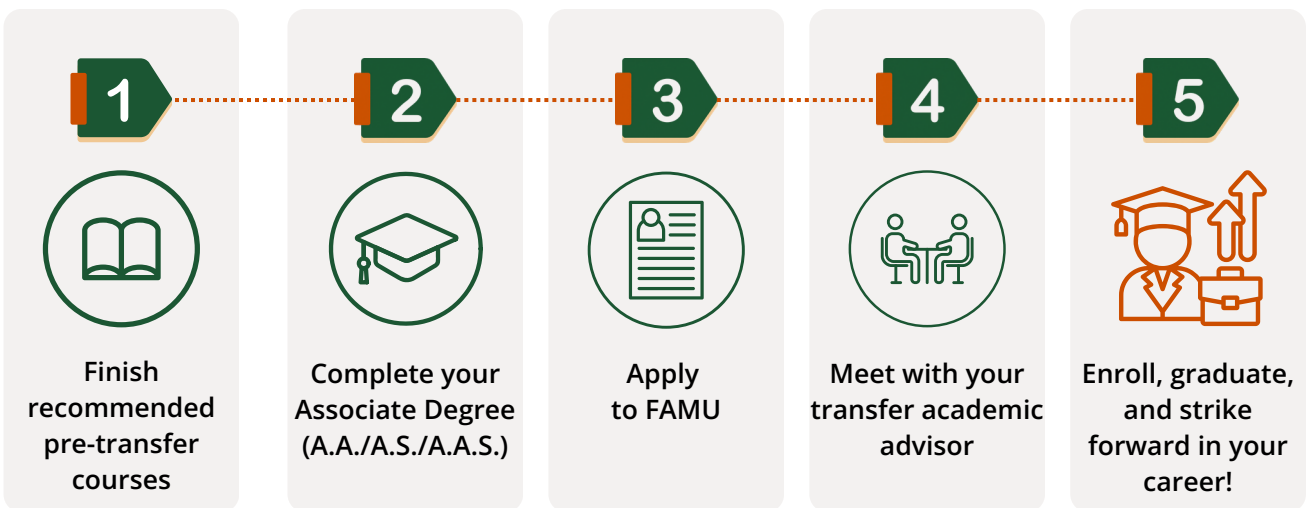
Employment of information security analysts is projected to grow 29 percent from 2024 to 2034, much faster than the average for all occupations. About 16,000 openings for information security analysts are projected each year, on average, over the decade.

Career Opportunities

- Security Analyst
- Security Engineer
- Security Architect
- Security Administrator
- Computer and Information Systems Manager
- Information Security Analyst
- Database Administrator
- Network and Computer System Administrator
- Computer Network Architect
- Computer Network Specialist



NEXT STEPS



CONTACT US

Program Website

<https://www.famu.edu/academics/all-programs/cst/cybersecurity-bs.php>

Contact:

(850) 599-3050

science@FAMU.edu

At-A-Glance

Minimum GPA
2.0Limited Access
NoAdditional Program
Application
NoTest Required
NoOnline Option
NoTotal Credits
62

Important Notes

- Must earn a grade C or higher in courses unless otherwise indicated.
- Foreign Language Requirements: All undergraduate students are **required** to have **two** years of Foreign Language study **prior** to graduation with a bachelor's degree from Florida A&M University.
- Civic Literacy Requirement must be met prior to graduation.



RECOMMENDED PRE-TRANSFER COURSEWORK

YEAR 1

Fall	Spring
ENC 1101 Freshman Comm Skills I (3)	ENC 1102 Freshman Comm Skills II (3)
MAC 1147 Pre-Calculus (4)	STA 2023 Intro to Probability & Statistics I (3)
SPC 2608 Public Speaking (3)	COP 3014C Fund of Programming (4)
COP 3828 Web Prog & Design (3)	CNT 2000 Comp Sys & Network Fundamentals (3)
CIS 1920 Professional Development I (2)	ISC 1058 Scientist Life Skills -OR- SLS 1101 1st Year Experience-College Transition (2)
Total: 15	Total: 15

YEAR 2

Fall	Spring
PSC 1121 Intro to Physical Science w/Lab (4)	COT 2104 Mathematics for Computing (3)
General Elective (3)	BSC 1005C/1005L Biological Science w/Lab (4)
Humanities Elective (3)	CIS 4360 Intro to Computer Security (3)
CNT 4603 Computer & Network System Administration (3)	CIS 4920 Professional Development IV (3)
COP 3366 Intro to C# Programming (3)	Humanities Elective (3)
Total: 16	Total: 16



JOB OUTLOOK

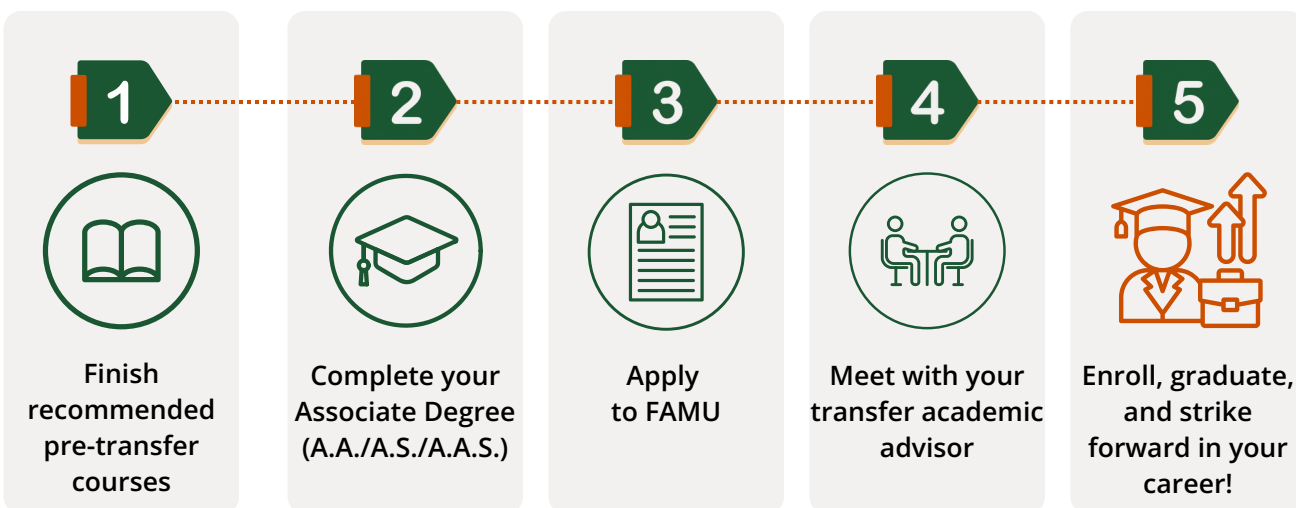
Overall employment in computer and information technology occupations is projected to grow much faster than the average for all occupations from 2024 to 2034.

Career Opportunities

- IT Support Specialist / Help Desk Technician
- Systems Administrator
- Network Administrator
- Cybersecurity Analyst
- Cloud Support Engineer
- Database Administrator (DBA)
- Business Analyst
- IT Project Manager (entry-level/junior)
- Web Developer
- Application Support Analyst
- Computer Systems Analyst
- Software Tester / QA, ist.



NEXT STEPS



CONTACT US

Program Website

<https://cst.famu.edu/departments-and-centers/department-of-computer-and-information-sciences/bs-Information-technology.php>

Contact:

(850) 599-3050

myra.mcnaair@FAMU.edu