



Computer and Technology Majors at FSU

COMPUTER ENGINEERING*

What is it?

- The study of computer engineering application areas including digital systems, digital signal processing, computer networks, and VLSI design.

What will I study?

- How to design and interface embedded computer systems; how to design and implement digital hardware; software and algorithm development; digital systems theory

What courses will I need before I start?

- Calculus I
- Calculus II
- Calculus III
- Differential Equations
- Linear Algebra
- General Chemistry I w/ Lab
- General Physics A w/ Lab
- General Physics B w/ Lab
- Fundamentals of Programming (C++)

Who can I contact for information?

- Shanna Rich, Academic Advisor
ece_advisor@eng.famu.fsu.edu

COMPUTATIONAL SCIENCE (Scientific Computing)

What is it?

- The integration of mathematics and computation to solve problems in science and engineering.

What will I study?

- Mathematical and computational algorithms for science applications; how to translate these algorithms into one of several computer languages, including Python and C++; how to conduct scientific research using algorithms and computation

What courses will I need before I start?

- Calculus I
- Calculus II
- Introduction to Scientific Computing or Introductory Programming
- Science course w/ Lab for science major

Who can I contact for information?

- Karey Fowler, Academic Advisor
advising@sc.fsu.edu

INFORMATION TECHNOLOGY

What is it?

- Designing, creating, and managing information systems to meet the needs of an organization.

What will I study?

- Technical communication, research and data analysis, information science, information systems and services

What courses will I need before I start?

- Precalculus
- 2000-level Statistics
- Any Database course
- Any Programming course
- Any Object-Oriented Programming
- Principles of Macroeconomics
- Any general Psychology course
- Any general Ethics course

Who can I contact for information?

- CCI Advising Center
advising@cci.fsu.edu

COMPUTER SCIENCE*†

What is it?

- The study of software development and engineering.

What will I study?

- Data & instruction processing; mobile app development; programming languages including C++ and Python

What courses will I need before I start?

BA degree option:

- Calculus I

BS degree option:

- Calculus I & II
- Introductory Programming
- 2 Natural Science courses

COMPUTER PROGRAMMING AND APPLICATIONS

What is it?

- The introductory study of programming with a large amount of flexibility.

What will I study?

- Introductory programming language courses in C++, Java, and Python

What courses will I need before I start?

- Calculus I

Who can I contact for information?

- Kimberly Pack, Academic Advisor
advisor@cs.fsu.edu

Other majors you may want to consider: Studio Art; Information, Communication & Technology

Program information subject to change.

* denotes majors that are also available at the Panama City Campus. † denotes majors that are also available as Distance Learning.

Please refer to the FSU Academic Program Guide (academic-guide.fsu.edu) and Match Major Sheets (career.fsu.edu/resources) for specific course numbers & more information.

Effective Summer 2018

Please flip over for additional majors →



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COMPUTATIONAL BIOLOGY (Biology)

What is it?

- An interdisciplinary major intended to train students to develop computational models and algorithms to solve biological problems.

What will I study?

- Biology; genetics; scientific computing; algorithms for scientific applications

What courses will I need before I start?

- Calculus I
- C++ or Java programming course
- General Biology I w/ Lab
- General Biology II w/ Lab
- General Chemistry I
- General Chemistry II

Who can I contact for information?

- Bonnie Garcia-Gloeckner, Advisor
bgarcia@bio.fsu.edu

COMPUTATIONAL BIOLOGY (Computer Science)

What is it?

- An interdisciplinary major intended to develop an understanding of software development and the fundamentals of biology.

What will I study?

- Biology and computer science electives; genetics; programming languages

What courses will I need before I start?

- Calculus I
- Calculus II
- General Biology I
- General Biology II
- General Chemistry I w/ Lab
- General Chemistry II w/ Lab
- College or General Physics A w/ Lab

Who can I contact for information?

- Kimberly Pack, Academic Advisor
advisor@cs.fsu.edu

CYBER CRIMINOLOGY

What is it?

- The study of how crimes are facilitated and committed through the use of computers.

What will I study?

- Trends in criminal activity and behavior; object-oriented programming; how to detect and combat cybercrime

What courses will I need before I start?

Computer Science degree option:

- College Algebra
- Precalculus
- Computer Programming

Criminology degree option:

- College Algebra
- Precalculus
- Computer Programming

Who can I contact for information?

- Computer Science: Kimberly Pack
advisor@cs.fsu.edu
- Criminology Advisor: Rahila Arshad
rarshad@fsu.edu

MANAGEMENT INFORMATION SYSTEMS

What is it?

- The study of the processes for the design and analysis of information systems & databases, programming languages used to build these systems, and how to use technology to create business solutions.

What will I study?

- Systems analysis & design, database development, project management, programming languages, business analytics, and infrastructure & telecommunications

What courses will I need before I start?

- Calculus for Business
- Business Statistics
- Introduction to Financial Accounting
- Introduction to Managerial Accounting
- Principles of Macroeconomics
- Principles of Microeconomics
- Microcomputer Applications for Business

Who can I contact for information?

- College of Business Advising
ugprog@business.fsu.edu

Other majors you may want to consider: Studio Art; Information, Communication & Technology

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