Ten Reasons to Major in Computing

1. Computing is part of everything we do!
2. Expertise in computing enables you to solve complex, challenging problems.
3. Computing enables you to make a positive difference in the world.
5. Computing jobs are here to stay, regardless of where you are located.
6. Expertise in computing helps you even if your primary career choice is something else.
7. Computing offers great opportunities for true creativity and innovativeness.
8. Computing has space for both collaborative work and individual effort.
9. Computing is an essential part of well-rounded academic preparation.
10. Future opportunities in computing are without boundaries.

Source: Association for Computing Machinery (ACM)

“Learning to write programs stretches your mind, and helps you think better, creates a way of thinking about things that I think is helpful in all domains.”

-Bill Gates

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Computer scientists solve complex problems and are in high demand.

At The Citadel, you can take advantage of majors and minors in Computer Science, Cybersecurity, Computer Programming, and Management Information Systems.
CS @ The Citadel

Computer Science is the highest paid college degree, and computer programming jobs are growing at two times the national average (www.code.org). At The Citadel, you can take advantage of small class sizes and a dedicated faculty to enhance your education. We offer majors and minors in Computer Science, Cybersecurity, Programming and Management Information Systems.

What can I do with a CS degree?

In short, you can create. Computer Scientists work in all areas of industry and government providing solutions to complex problems. You can become a software engineer, prevent cybercrime, lead a team of software developers, build apps for tablets and smartphones, design intelligent databases, develop video games, work in cloud computing, and more.

Where do Computer Scientists work?

Computer Scientists can work at places like Google, Motorola, Apple, Intel, Facebook, General Dynamics, the movies, the FBI, the NSA, and all branches of the United States Armed Forces.

Major Courses

- CSCI 201 Introduction to Computer Science I
- CSCI 202 Introduction to Computer Science II
- CSCI 223 Data Structures and Algorithms
- CSCI 305 Computer Organization and Programming
- CSCI 317 Computer Networks and Internets
- CSCI 320 Database Design
- CSCI 335 Programming Languages
- CSCI 405 Operating Systems
- CSCI 420 Software Engineering
- CSCI 495 Senior Seminar in Computer Science

Elective Courses

- CSCI 110 Microcomputer Applications
- CSCI 205 Programming for non-CS Majors
- CSCI 216 Intro to Programming and Databases
- CSCI 217 Web Resources and Design
- CSCI 227 Intro to Cybersecurity for non-CS Majors
- CSCI 290 Computer Science Topics
- CSCI 327 Computer Security
- CSCI 370 Developing Mobile Applications
- CSCI 375 Enterprise Java
- CSCI 399 Junior Research Project
- CSCI 412 Compiler Design
- CSCI 421 Software Engineering Practicum
- CSCI 427 Advanced Cybersecurity
- CSCI 455 Artificial Intelligence
- CSCI 490 Advanced Topics in Computer Science
- CSCI 491 Internship
- CSCI 499 Senior Research Project

What kinds of classes will I take?

Computer Science majors and minors can take classes including Java Programming, Mobile App Development, Computer Security, Database Design, Computer Networking, Artificial Intelligence, Parallel Programming, Software Engineering, and more. There are also opportunities for paid research and internships.

What is Cybersecurity?

Protecting our data from unauthorized access is a paramount concern for individuals, corporations, and governments. A student who studies cybersecurity at The Citadel will be well prepared to prevent and defend against cyberattacks and to ensure the availability of data and services to authorized users.

The Citadel offers several courses in cybersecurity for CS majors and also for non-CS majors. We also offer a minor in cybersecurity, the content for which is based on national training standards for information security professionals, as recommended by the National Security Agency and the Department of Homeland Security.

Source: Running on Empty: The Failure to Teach K-12 Computer Science in the Digital Age