



CCBC STEM ACADEMY

Engineering Your Future

CURRICULUM: 26/28 CREDITS

Do you enjoy problem-solving? Are you seeking a high-paying STEM career?

The CCBC STEM Academy offers three dynamic pathways in Engineering, Computer Science, and Cybersecurity.

Whether you are passionate about designing the future, mastering complex coding, or protecting critical systems from cyber threats, our academy provides hands-on experience in state-of-the-art classrooms and labs. Attend classes in person at a designated location or participate online, live each day, from either school or home.

In the **Cybersecurity** pathway, you will acquire in-demand skills in digital defense, gain experience in innovative technology, and engage with industry leaders to prepare you for a successful career. In the **Computer Science and Engineering** pathway, you will build and innovate through hands-on projects and combine practical experience with cutting-edge technology and engineering principles for a career in high-demand STEM fields.

At CCBC, we are committed to helping you **Start Strong, Stay Strong, and Finish Stronger**. As a STEM Academy student, you will have the opportunity to earn up to **28 college credits** while still in high school, giving you a solid foundation for success in college and beyond. When you continue your education at CCBC after high school, you can earn an associate degree with a seamless pathway to one of our four-year premier partner institutions to finish out a bachelor's degree.

Take the first step toward an exciting, high-demand STEM career with **CCBC's STEM Academy!**

REQUIREMENTS

Students can join the academy during their junior or senior year
 Good attendance
 Good conduct
 Recommendation from principal or school counselor

The following program-specific requirements also apply:

Engineering and Computer Science Admission Criteria

- GPA 3.0
- High School prerequisite courses:
 - **Sophomore Year** - Complete Algebra II with a "B" or better and Chemistry with a "C" or better
 - **Junior Year** - Complete Calculus with a "B" or better

Cybersecurity

GPA 3.0
 High School prerequisite courses:
 Complete Algebra II with a "B" or better

Engineering and Computer Science Pathway

| FIRST SEMESTER: 7 CREDITS | | CREDITS |
|----------------------------|--|---------|
| COLL 100 | Titan Transition | 1 |
| ENGR 130 | Robotics | 3 |
| CIST 100 | Intro to IT | 3 |
| SECOND SEMESTER: 7 CREDITS | | CREDITS |
| WRIT 101 | English Composition | 3 |
| CHEM 101 | General Chemistry | 4 |
| THIRD SEMESTER: 7 CREDITS | | CREDITS |
| MATH 160 | Calculus I | 4 |
| CISF 150 | Cloud Gaming OR | 3 |
| ENGR 160 | Engineering Fundamentals | |
| FOURTH SEMESTER: 7 CREDITS | | CREDITS |
| MATH 161 | Calculus II | 4 |
| ENGR 120 | CAD: Computer Aided Drafting OR | 3 |
| LITR 210 | Concepts of Literature | |

Cybersecurity Pathway

| FIRST SEMESTER: 7 CREDITS | | CREDITS |
|----------------------------|---------------------------------------|---------|
| COLL 100 | Titan Transition | 1 |
| CISN 101 | Networking I: Intro to Networks | 3 |
| CIST 100 | Intro to IT | 3 |
| SECOND SEMESTER: 6 CREDITS | | CREDITS |
| CISN 201 | Client OS & Enterprise Server Systems | 3 |
| CISF 120 | Computer Forensics & Investigation | 3 |
| THIRD SEMESTER: 6 CREDITS | | CREDITS |
| CISF 210 | Cyber I | 3 |
| CISN 203 | Linux OS | 3 |
| FOURTH SEMESTER: 7 CREDITS | | CREDITS |
| CISN 206 | Linux Administration | 3 |
| Math 126 | Statistics | 4 |



TO LEARN MORE ABOUT THE STEM ACADEMY AND HOW TO ENROLL, SCAN THE QR CODE.

STEM Academy Champion:
stemchampion@ccbcb.edu

