

INFORMATION TECHNOLOGY—PROGRAMMING

The Information Technology program provides students with a range of computer skills from fundamental to advanced, along with the problem-solving skills necessary to succeed in the computer career field. Students follow one of two career paths, IT—Programming or IT—Networking..



IT Programming—Program Skills & Certifications:

- Software development (business applications & video games)
- Programming logic
- Troubleshooting and repairing computer software and hardware problems
- Teamwork
- Microsoft Office Specialist (MOS) Certifications
- WOW Certification
- Advanced Placement Exam for Computer Science Java



Programming Languages:

- HTML/JavaScript
- Java
- C++/C
- Visual Basic
- ASP.Net
- SQL (Structured Query Language)

Software Utilized:

- Microsoft Word, Excel, PowerPoint, Access, and Visual Studio
- Adobe Photoshop



Internships:

During their senior year, students may participate in the work-study program, dual enrollment program, or stay at Western for a full schedule. Information Technology courses are offered to students remaining at Western for their senior year.

Articulation with CCBC:

Most courses in the Information Technology program give students the opportunity to earn articulated college credits at CCBC.

IT—PROGRAMMING

| Content Area | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|----------------------------|---|---|---|---|
| English | English 9 | English 10 | English 11 | English 12 |
| Math | Algebra I | Algebra II | Geometry | College Readiness Math or Trig with Algebra |
| | Honors Algebra II | Honors Geometry | Pre Calculus or Trig/Analyt | AP Calculus I/II or College Algebra |
| | Honors Algebra II and Honors Geometry or G & T Geometry | Precalculus or Trig/Analyt | AP Calculus I/II or College Algebra | AP Calculus II or AP Statistics |
| Science | Biology | Chemistry | Physics or Earth Science | Science Elective |
| Social Studies | American Government | World History | US History | EPI (.5 cr) |
| Graduation Requirements | Introduction to Engineering & Technology Concepts (IETC) (1 cr) | Fine Arts | Health (.5 cr) | Computer Science APA (1 cr) [A] |
| Completer Classes | Introduction to Information Technology (1 cr) | HTML/JAVAScript (1 cr) [A] Software & Computer Applications II (.5 cr) [A] AND Database Applications (.5 cr) [A] | Visual Basic (1 cr) [A] C++ (1 cr) [A] | |
| Requirements/ Electives | Physical Education | Foreign Lang. or Elective | Foreign Lang. or Elective | |

See page 36 for admission criteria!

[A] Denotes the possibility of Articulation credit