

Computer Science

The Computer Science pathway equips students with skills, character traits, and knowledge to be successful in an ever-changing professional environment. Computer science students will learn through project-based activities, participate in related capstone experiences, explore computer science fields, and develop 21st century durable skills.

Computer Science Pathway Credit Checklist: 1.0 foundations credit, 2.0 skills credits, & 1.0 capstone experience credit

Potential Majors

- Computer Engineer
- Cybersecurity
- Database Management
- Information Technology
- Programmer
- Software Developer

Possible IRCs/Certificate

- TestOut PC Pro
- TestOut Security Pro
- TestOut Network Pro

Stackable Credentials

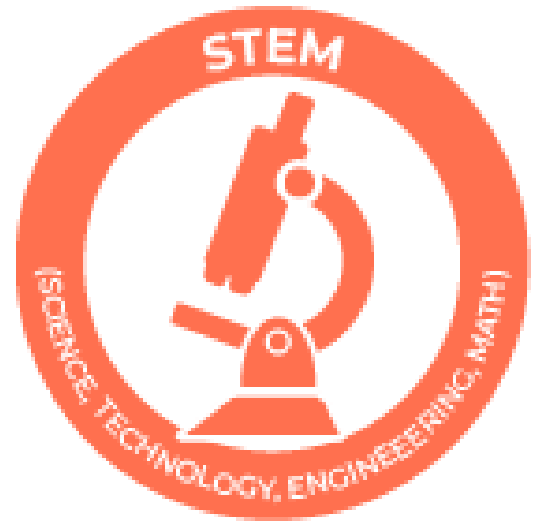
- TestOut Cyber Defense Pro
- TestOut Ethical Hacker
- TestOut IT Fundamentals

Related Careers

- Application Developer
- Artificial Intelligence
- Cybersecurity
- Data Analyst
- Digital Animator
- Game Developer
- IT Repair
- Programmer
- Related Military Careers

CTSO

- Technology Student Association (TSA)



Foundations Courses | 1.0 Credit Required

Grades 9-12

- Computer Science I (PLTW CSE)* (1.0 credit) H1062
- Computer Science II (PLTW CSP)* (1.0 credit) H1060

Skills Courses | 2.0 Credits Required

Grades 9-12

- Computer Science II (PLTW CSP)* (1.0 credit) H1060

Grades 10-12

- AP Computer Science A* (1.0 credit) H6125
- Cybersecurity* (1.0 credit) H1061
- Data Science (1.0 credit) H4065
- Digital Electronics* (1.0 credit) H1036

Capstone Experience | 1.0 Credit Required

Grades 11-12

- AP Seminar* (1.0 credit) H1020
- CAPS- Technology Solutions Information Technology++ (3.0 credits) H9230
- Computer Hardware & Information Technology* (1.0 credit) H6160
- Dual enrollment options- pathways related
- Ignite Your Future Business Incubator++ (3.0 credits) H6144
- Lewis & Clark- Computer Software Development I/II++ (3.0 credits) H9020
- Lewis & Clark- Cyber Academy (Computer Maintenance & Networking)++ (3.0 credits) H9006
- SCC MegaTech++ (3.0 credits) H9256

Grade 12

- AP Research* (1.0 credit) H6444

Learners can only earn credit for a course once when working towards pathway completion.

*Weighted course ++This program requires an application & acceptance process.