



**COMPUTER SCIENCE TECHNOLOGIES PROGRAM**

**CTE COURSE SEQUENCE**

**FOUNDATIONAL (9TH & 10TH)**

- Internet of Everything - **LA**
- CS.Create - **M**
- A+
- N+
- Robotics - **S**
- Competition Robotics - **S**

**TECHNICAL (11TH & 12TH)**

- CISCO - **M**

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

**ACADEMIC RIGOR**

- Pre-Calculus with Trigonometry
- Chemistry
- Physics

**STUDENT ORGANIZATION (CTSO)**

- Skills USA
- BPA

**CERTIFICATION**

- MOS - Word, Excel, Word Expert, Excel Expert, PowerPoint, Access
- IC3
- Adobe InDesign
- Adobe Photoshop
- Entrepreneur/Small Business

**EARLY COLLEGE CREDIT  
OPTIONS**

COLLEGE  
CREDITS

**DUAL ENROLLMENT**

- A+ 3 cr
- CISCO Networking 1-4 up to 16 cr

**AP (WITH PASSING SCORE ON AP EXAM)**

- AP Computer Science Principles
- AP Computer Science A

# MAPPING YOUR 4-YEAR PLAN\*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<input type="checkbox"/> Internet of Everything- <b>LA</b>	.5 cr	<input type="checkbox"/> A+	.5 cr
<input type="checkbox"/> CS.Create - <b>M</b>	.5 cr	<input type="checkbox"/> N+	.5 cr
<input type="checkbox"/> Algebra 1	1 cr	<input type="checkbox"/> Robotics - <b>S</b>	.5 cr
<input type="checkbox"/> English 1	1 cr	<input type="checkbox"/> Competition Robotics - <b>S</b>	.5 cr
<input type="checkbox"/> Biology	1 cr	<input type="checkbox"/> Geometry	1 cr
<input type="checkbox"/> Civics	.5 cr	<input type="checkbox"/> English 2	1 cr
<input type="checkbox"/> Health	.5 cr	<input type="checkbox"/> Physical Science	1 cr
<input type="checkbox"/> PE	1 cr	<input type="checkbox"/> World History	1 cr
11TH GRADE	CREDITS	12TH GRADE	CREDITS
<input type="checkbox"/> CISCO Networking 1 - <b>M</b>	1 cr	<input type="checkbox"/> CISCO Networking 3 - <b>M</b>	1 cr
<input type="checkbox"/> CISCO Networking 2 - <b>M</b>	1 cr	<input type="checkbox"/> CISCO Networking 4 OR AP Computer Science A - <b>M</b>	1 cr
<input type="checkbox"/> Algebra 2	1 cr	<input type="checkbox"/> Advanced Math	1 cr
<input type="checkbox"/> English	1 cr	<input type="checkbox"/> English	1 cr
<input type="checkbox"/> Science	1 cr	<input type="checkbox"/> Science	1 cr
<input type="checkbox"/> U.S. History	1 cr	<input type="checkbox"/> U.S. Government	.5 cr
		<input type="checkbox"/> AK History	.5 cr

\*These are suggested courses to best prepare students for post-secondary transitions and credentialing. Actual courses may depend on school schedule availability and enrollment capacity. Some classes may be available at other locations through District-wide or course share options. Graduation requirements for number of credits and required courses are set at a district level and are subject to change. Talk to your counselor about your graduation requirements and to schedule your courses.

## STACKABLE CREDENTIALS & DEGREES\*

HIGH SCHOOL	COLLEGE
<input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Academic AP	<input type="checkbox"/> Occupational Endorsement Certificate in: IT Support Desk Technician, Virtual Communication, Web Engineering, Cisco-Certified Network Associate <input type="checkbox"/> Undergraduate Certificate in Information Technology Specialist <input type="checkbox"/> Associate of Applied Science - Information Technology Specialist, Computer Systems and Network Technology, Computer Science <input type="checkbox"/> Bachelor of Business Administration - Computer Science, Computer Science Engineering <input type="checkbox"/> Master of Business Administration <input type="checkbox"/> Master of Computer Science
INDUSTRY CERTIFICATION	
<input type="checkbox"/> Microsoft Office Specialist <input type="checkbox"/> Adobe <input type="checkbox"/> Entrepreneur/Small Business	
APPRENTICESHIP	
<input type="checkbox"/> Trade Unions <input type="checkbox"/> Private Entity	<input type="checkbox"/> U.S. Armed Forces

\*Listed Certifications, Apprenticeships and College Degree Programs represent a SAMPLE of available credentials. Available credentials are subject to change due to industry and postsecondary institution changes.