

Courses List

Pursuant to NC SBE State Graduation Requirements (Policy GRAD-004), the following state-managed and local course option computer science courses satisfy the requirements starting for school year 2024-2025:

State-Managed Computer Science Courses

Students may complete one of the following state-managed high school courses to satisfy the graduation requirement.

| Course Number | Course Name | Credential | Tier |
|---|---|-------------------|-------------|
| <i>Advanced Placement/ International Baccalaureate Courses</i> | | | |
| 0A02 | AP Computer Science Principles | | |
| 2A02 | AP Computer Science A | | |
| 0I04 | IB Digital Society SL | | |
| 0I05 | IB Digital Society HL | | |
| 2I00 | IB Computer Science SL | | |
| 2I01 | IB Computer Science HL | | |
| Cambridge International | | | |
| 0V08 | CIE Computer Science AS | | |
| 0V09 | CIE Computer Science A | | |
| Career and College Promise Courses | | | |
| BW32 | CIS110 Intro to Computers | | |
| BW35 | CIS115 Intro to Programming and Logic | | |
| BW36 | CSC134 C++ Programming | | |
| BW38 | CSC139 Visual BASIC Prog | | |
| BW40 | CSC151 JAVA Programming | | |
| BW42 | CSC239 Advanced Visual BASIC Programming | | |
| BW47 | CTS115 Information Systems Business Concept | | |
| BX26 | CSC120 Computing Fundamentals I | | |
| BX27 | CSC130 Computing Fundamentals II | | |

| Course Number | Course Name | Credential | Tier |
|-------------------------------|---|---|------|
| IJ04 | CSC249 Data Structure and Algorithms | | |
| IJ05 | CSC251 Advanced JAVA Programming | | |
| TW55 | EGR215 Network Theory I | | |
| Career Pathway Courses | | | |
| CI35 | PLTW Cybersecurity Honors | | |
| CI00 | CompTIA IT Fundamentals | CompTIA IT Fundamentals+ (ITF+) | 3 |
| CP20 | Develop in Swift Explorations | App Development with Swift Associate | 3 |
| CP21 | Develop in Swift Fundamentals | App Development with Swift Certified User | 3 |
| CS30 | Introduction to Data Science | | |
| CI20 | Network Administration I | | |
| CI21 | Network Administration II | CompTIA Network+ | 3 |
| CI30 | Cybersecurity I | | |
| CI31 | Cybersecurity II | CompTIA Security+ | 2 |
| CA10 | Artificial Intelligence I | | |
| CS10 | Introduction to Computer Science | | |
| CP05 | Coding in Minecraft – Expert Coding | Coding in Minecraft Capstone | TBD |
| CP10 | Python Programming I | | |
| CP11 | Python Programming II | PCAP Certified Associate in Python Programming | 2 |
| CS31 | SAS Base Programming | SAS Certified Specialist Programming Fundamentals Using SAS 9.4 | 3 |
| CS20 | Computer Science I | | |
| CS21 | Computer Science II | | |
| CN56 | National Academy Foundation (NAF) Academy of Information Technology Foundational Prerequisite | | |
| CN57 | National Academy Foundation (NAF) Academy of Information Technology Prerequisite | | |

| Course Number | Course Name | Credential | Tier |
|---------------|--|---|------|
| CN58 | National Academy Foundation (NAF) Academy of Information Technology Concentrator | | |
| CN59 | National Academy Foundation (NAF) Academy of Information Technology MAJR | | |
| CI10 | Cisco Network Engineering Technology I | | |
| CI11 | Cisco Network Engineering Technology II | Cisco Certified Technician (CCT) Routing and Switching | 2 |
| CI01 | Computer Engineering Technology I | CompTIA A+ (Core 1) | 3 |
| CI02 | Computer Engineering Technology II | CompTIA A+ (Core 2) | 3 |
| CD10 | Adobe Visual Design I | Adobe Certified Professional - Graphic Design and Illustration Using Adobe Illustrator | 2 |
| | | Adobe Certified Professional - Visual Communication Using Adobe Photoshop | 2 |
| CD11 | Adobe Visual Design II | Adobe Certified Professional - Print and Digital Media Publication Using Adobe InDesign | 2 |
| CD12 | Adobe Digital Design I | Adobe Certified Professional - Web Authoring Using Adobe Dreamweaver | 3 |
| CD14 | Adobe Video Design I | Adobe Certified Professional - Digital Video Using Adobe Premiere Pro | 3 |
| CD15 | Adobe Video Design II | | |
| IM14 | Manufacturing Robotics | FCR-01 FANUC Certified Robot - Operator 1 | 3 |
| CT10 | Technology, Engineering, and Design | | |
| CT11 | Technological Design | | |
| CT12 | Engineering Design | | |
| CE10 | PLTW Intro to Engineering Design | | |
| CE11 | PLTW Principles of Engineering | | |

| Course Number | Course Name | Credential | Tier |
|---------------|---|---|------|
| TR11 | SREB AC Advanced Technology for Design and Production | NI Certified LabVIEW Associate Developer (CLAD) | 3 |
| TR12 | SREB AC Systems of Advanced Tech | NI Certified LabVIEW Associate Developer (CLAD) | 3 |
| CD20 | 3D Modeling and Animation I | | |
| CD21 | 3D Modeling and Animation II | Autodesk Certified User 3DS Max | 3 |
| | | Autodesk Certified User Maya | 3 |
| CD30 | Game Art and Design | | |
| CD31 | Advanced Game Art and Design | | |

High School Courses Eligible for Middle School

Students may complete one of the following high school state-managed courses during middle school to satisfy the graduation requirement.

| Course Number | Course Name | Credential | Tier |
|---------------|-------------------------------------|--------------------------------------|------|
| CS10 | Introduction to Computer Science | | |
| CP20 | Develop in Swift Explorations | App Development with Swift Associate | 3 |
| CS30 | Introduction to Data Science | | |
| CP05 | Coding in Minecraft – Expert Coding | Coding in Minecraft Capstone | TBD |
| CT10 | Technology, Engineering, and Design | | |
| CD20 | 3D Modeling and Animation I | | |

Local Course Options for Computer Science

Students may complete one of the following local course option courses to satisfy the graduation requirement.

| Course Number | Course Name | Credential | Tier |
|----------------------|---|----------------------------------|-------------|
| CL80 | Introduction to Computer Science | | |
| CL84 | PLTW Computer Science Essentials | | |
| CL82 | Introduction to Cyber Security | | |
| CL85 | Data Analytics I | | |
| CL72 | Computer Programming I | | |
| CR11 | SREB AC Informatics Computers, Networks and Databases | | |
| CR12 | SREB AC Informatics Design for the Digital World | | |
| CR13 | SREB AC Informatics Database in the Cloud | | |
| CR14 | SREB AC Informatics Developing a Cloud Presence | | |
| CL62 | Cisco Network Engineering Technology III | | |
| IK11 | Introduction to Engineering | | |
| CL43 | Applications of Engineering Technology | | |
| CL44 | Engineering Technology I | | |
| CL47 | Engineering Technology IV | | |
| CL48 | Engineering and Tech Foundations 1A | | |
| CL49 | Engineering and Tech Foundations 1B | | |
| TL13 | Intro to Integrated Systems Technology | | |
| CL13 | Robotics I | | |
| CL14 | Robotics II | | |
| CL30 | Introduction to Modeling and Animation | | |
| CL31 | 3D Modeling II | Autodesk Certified User 3DS Max | 3 |
| CL75 | Unity 3D Programming II | Unity Certified User: Programmer | 2 |

Review Process

An annual review of courses will occur to determine the eligibility of new state-managed courses or local course options to be included on the list. All courses to be considered will be submitted to the North Carolina Department of Public Instruction for review by August 1 of each year for implementation the following academic year. A course will be deemed eligible if at least 80% of the course focus on three or more of the following computer science principles:

- Computing systems and applications
- Networks and the internet
- Data analytics
- Programming and algorithms
- Impacts of technology

Updates to the list of computer science courses satisfying graduation requirements will be presented to the State Board of Education for approval.