

COLLEGE: Montgomery College

HIGH SCHOOLS: Clarksburg

CLUSTER: Information Technology

MCPS PROGRAM: Network Operations (Foundation Program)

MC PROGRAM: Network and Wireless Technologies A.A.S.

The Network Operations career pathway program introduces students to broad career opportunities in today's digital workforce and, in the process, equips them with personal, analytical, technical, and communications skills needed to obtain industry standard certifications.

STUDENT ENTRY POINTS

| GRADE | ENGLISH | MATH | SCIENCE | SOCIAL STUDIES | REQUIRED COURSES | | | | |
|--|--|--|--------------------|--|---|---|---|---|--|
| | | | | | RECOMMENDED ELECTIVE COURSES | | OTHER ELECTIVE COURSES | | |
| CAREER AND TECHNICAL EDUCATION COURSES | | | | | | | | | |
| SECONDARY | 9 | English | Mathematics | Science | Social Studies | Foreign Language | Physical Education | Technology Education Credit | |
| | *Network Operations Electives are listed below. | | | | | | | | |
| | 10 | English | Mathematics | Science | Social Studies | Foreign Language | Health (.5) Elective (.5) | Fine Arts | |
| | 11 | English | Mathematics | Science | Social Studies | ♦ Network Operations A (1.0 credits) ♦ Network Operations B (1.0 credits) Double Period | | | |
| | Appropriate certification exams must be passed to receive articulated credit. | | | | | | | | |
| 12 | English | Mathematics | Science Elective | Social Studies Elective | ♦ Semester 1 Network Operations 2 (1.0 credits) (DP) | *Choose one for second semester from: Microcomputer Technologies A/B, or Digital Electronics A/B, or ♦ Discovering Programming Concepts A/B, or ♦ Computer Programming 1A/B, or Web Site Development A/B, or Network Operations Guided Research, or Network Operations Internship | | | |
| Students can articulate up to 9 college tech prep credits for a tuition savings of \$1,228. | | | | | | | | | |
| POSTSECONDARY | Year 1 1st Semester | EN 101 Techniques of Reading & Writing | MA 180 Precalculus | HE 100 Principles of Healthy Living | | EC 201 Principles of Economics I | NW 130 Network Cabling Technology | ♦ NW 127 Microcomputer Control Programs | ♦ NW 140 Microcomputer Configuration & Installation |
| | Year 1 2nd Semester | EN 102 Techniques of Reading & Writing | | | | NW 150 Electronics for Wireless | NW 170 Networking Operating Systems | NW 101 Intro to Wireless Technologies | ♦ NW 151 Introduction to Networking |
| | Year 2 1st Semester | | | AS 101 Intro Astronomy | NW 274 Adv Wireless Communication | NW 229 Wireless Communication | | NW 173 Network Security | |
| | Year 2 2nd Semester | | | NW 275 Wireless Security | | | NW 264 Network and Wireless Troubleshooting | AR 101 Intro to Drawing | SP 108 Intro to Human Communication |

*Electives: Web Site Development, Discovering Programming Concepts, Computer Programming 1, Digital Electronics, Microcomputer Technologies-Computer Maintenance.
 Students who complete the MCPS program (courses in red) in high school do not have to repeat the courses in red at MC.



This MCPS CTE program is approved by the Maryland State Department of Education for graduates in 2012.

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| Required Courses |
| Recommended Elective Courses |
| Career and Technical Education Courses |
| Credit-Based Transition Programs (e.g. Dual/Concurrent Enrollment, Articulated Courses) (♦=High School to Com. College)(●=Com. College to 4-Yr Institution) |