

Model Program of Study – Computer Electronics

| | Grade | English | Mathematics | Science | Social Sciences | Major Courses | Other courses | |
|---|---|--|--|---|--|--|--|--|
| High School required and recommended courses | (4) During Grade 8, provide academic/career exploration and advising for student & parents – include introduction to program of study sequences | | | | | | | |
| | 9 | (1) English I | (1) Algebra I | (1) Physical Science | (1) Global Studies | | (1) Health | |
| | 10 | (1) English II | (1) Geometry | (1) Modern Biology | (1) American Studies I | | (1) Physical Education | |
| | (4) Prior to grade 11, assess for college readiness; provide remediation and enhancements as appropriate | | | | | | | |
| | 11 | (1) English III | (1) Algebra II | (1) Modern Chemistry | (1) American Studies II | (5) Computer Information Processing | (1) Fine Art elective | |
| | (4) At age 17, assess for all immunizations; remedy deficiencies | | | | | | | |
| | 12 | (1) English IV | (3) Adv. Math or Statistics | (3) Modern Physics II | | (5) Electronics/ Computer Servicing | | |
| (4) During senior year, complete college selection process; After January, complete federal financial aid (FAFSA) Administer college placement exams | | | | | | | | |
| College required and recommended courses | Year 1 Sem 1 16 cr. | | (6) MAT 117 Electrical Mathematics I | (6) ELS 112/114 Basic Electricity/ Electronics (w/Lab) | | (5) COE 114 Operating Systems MCP (6) DIB 115 Digital Basics | (6) PHE 124 Ergonomics/ Occupational Wellness | |
| | Year 1 Sem 2 18 cr. | (6) ENG 111 English Composition | (6) MAT 127 Electrical Mathematics II | | (6) Social Science Elective | (6) COE 122/123 Computer Fundamentals (w/Lab) (5) COE 125 Computer Networking Hardware | | |
| | Year 2 Sem 1 16 cr. | | | (6) PHY 150 Physics | | (5) COE 135 Network Administration (5) COE 214 Implementing and Managing Network Infrastructure (5) COE 215 Planning Network Infrastructure (6) MCP 211 Microcomputer Software | | |
| | Year 2 Sem 2 18 cr. | (6) COM 221 Technical Communications | | | (6) Humanities Elective | (5) COE 224/225 Adv. Computer Electronics (w/Lab) (6) MCP 221 Microcomputer Interfacing | (6) Elective | |
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| This is a model; individual students should review required and recommended courses and modify as appropriate. | | | (1) Required high school courses | | (2) Recommended career-related courses | | | |
| | | | (3) Other recommended high school courses | | (4) Recommended assessments, advising, and preparation | | | |
| | | | (5) Career-related transitional courses (articulation, dual, or early college) | | | | | |
| | | | (6) Required college courses | | | | | |