



Commonwealth of Virginia Plan of Study

Student Name: _____

School: _____

Date: _____

Cluster: Information Technology Pathway: Information Systems Technology (Microcomputer Applications)

This Career Pathway Plan of Study can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

| EDUCATION LEVELS | GRADE | English/ Language Arts | Mathematics | Science | Social Studies/ Science | Other Required Courses Recommended Electives Learner Activities | Recommended Career and Technical Courses Source: Administrative Planning Guide www.doe.virginia.gov/VDOE/ Instruction/CTE/apg/ | SAMPLE – Occupations Relating to This Pathway: www.doe.virginia.gov/VDOE/ Instruction/CTE/career clusters/ www.careerclusters.org www.cteresource.org/cpg/ | |
|---|--|----------------------------------|---|---|---|--|---|---|--|
| Graduation Requirements: http://www.doe.virginia.gov/2plus4in2004/index.shtml | | | | | | | | | |
| MIDDLE | 7 | English | Math 7/3111 | 4115/Life Science | Social Studies 7/2355 | Health & PE | Elective/Keyboarding 6150 9 Wks | - Database Administrator Help Desk Specialist Technical Writer Technical Support Representative | |
| | 8 | English | Math 8/3112 | 4125/Physical Science 8 | Social Studies 8/2220 Civics & Economics | Health & PE | Elective/Digital Input Technologies 6160/ Computer Applications 6617 | | |
| Career Assessment: Administration of a career assessment instrument is appropriate at the middle school level to help students and their parents plan for high school (Virginia's Career Planning System or other assessment product). | | | | | | | | | |
| SECONDARY | 9 | English | Algebra I | Earth Sciences | World History/ Geography | Health & PE (2 years) Foreign Language (3 years) Other Electives to Complement Pathway (Core Academic and CTE): | BUS 6151 Keyboarding/AST 114 DE | | |
| | 10 | English | Geometry | Biology | World History/ Geography | | BUS 6320 Accounting/ACC 115 DE | | |
| | 11 | English | Algebra II | Chemistry | US/VA History | BUS 6670 IT Fundamentals | BUS 6612 CIS/ITD 110 DE/IC | | |
| | 12 | English 12/English 111/112 DE | Trigonometry/ Advanced Algebra | Physics (or Principles of Technology I and II) | US/VA Government | | BUS 6613ADV/ CIS IC | | |
| High school courses in the pathway offered locally for college credit should be coded: DE (Dual Enrollment) and/or VC (Validated Credit) | | | | | | | | | |
| List related certifications/credentials approved by VDOE and offered locally: http://www.doe.virginia.gov/VDOE/Instruction/CTE/apg/ (Go to Section 9.) A+, Network +/Cisco | | | | | | Additional Learning Opportunities: CTSO Organization(s): <input type="checkbox"/> DECA <input checked="" type="checkbox"/> FBLA <input type="checkbox"/> FCCLA <input type="checkbox"/> FFA <input type="checkbox"/> FEA <input type="checkbox"/> HOSA <input checked="" type="checkbox"/> SkillsUSA <input type="checkbox"/> TSA | | | |
| | | | | | | Work-Based Learning: <input type="checkbox"/> Career Research <input type="checkbox"/> Cooperative Education <input checked="" type="checkbox"/> Internship <input type="checkbox"/> Mentorship <input checked="" type="checkbox"/> Job Shadowing <input type="checkbox"/> Service Learning Project <input type="checkbox"/> Student Apprenticeship | | | |
| Postsecondary: Placement Assessments such as COMPASS & SAT II | | | | | | College Entrance Exams such as ACT & SAT | | | |
| POSTSECONDARY | SAMPLE POSTSECONDARY PROGRAMS RELATED TO THIS CAREER PATHWAY Individual plans must include locally agreed upon courses at the postsecondary level (See page 2) | | | | | | | | |
| | Pathway | | Associate Degree, College Certificate, or Apprenticeship | | | Bachelors Degree | | Postgraduate Degree | |
| | Information Systems Technology | | AAS (JSRCC) | | | | | | |

College: [J. Sargeant Reynolds Community College](#)

School Division(s): _____

Postsecondary: Placement Assessments such as COMPASS & SAT II

| POSTSECONDARY - COMMUNITY COLLEGE or APPRENTICESHIP - Determined Locally | Semester | English | Mathematics | Science | Social Studies | Required Courses or Recommended Electives | | | |
|--|--|---|---|--|---|---|--|--|--|
| | POSTSECONDARY PLAN OF STUDIES MUST INCLUDE POSTSECONDARY ACADEMIC, CTE, AND OTHER ELECTIVE COURSES APPROPRIATE FOR AN ASSOCIATE DEGREE. | | | | | | | | |
| | Year 1 1 st Semester | ENG 111 College Compositions I DE | MTH 120 Introduction to Mathematics | SDV 100 College Success Skills | ACC 115*Applied Accounting I DE | ITE 115 Computer Applications & Concepts IC | ITN 100 Introductions to Telecommunications | AST 114 Keyboarding for Information Processing DE | |
| | Year 1 2 nd Semester | ENG 112 College Composition II DE | BUS 125 Applied Business Mathematics | AST 141 Word Processing I IC | ITE 221 PC Hardware & OS Architecture | ITN 140 Spreadsheet Software IC | Personal Wellness Elective | | |
| | Year 2 1 st Semester | AST 205 Business Communications | ECO 120 Survey of Economics | BUS 220 Introduction to Business Statistics | ITD 110 Web Page Design I DE | ITP 251 System Analysis & Design | | | |
| Year 2 2 nd Semester | Humanities/Fine Arts Elective | Approved IT or AST Elective | ITE 150 Desktop Database Software | ITE 215 Advanced Computer Literacy | IT 298 Seminar and Project: Capstone Course or AST 298 | | | | |

College courses offered locally in the high school for college credit should be coded: DE (Dual Enrollment) and/or VC (Validated Credit)

Related Industry Certifications Available: IC

Microsoft Office Specialist (MOS)

Additional Suggested Learning Opportunities:

Work-Based Learning:

- Cooperative Education
 Internship
 Mentorship
 Job Shadowing
 Service Learning Project
 Registered Apprenticeship

UNIVERSITY

University/College:
 Degree or Major:
 Number of Articulated CC Credits:

Notes: