



Commonwealth of Virginia Plan of Study

Student Name: _____

School: _____

Date: _____

Cluster: Information Technology Pathway: Information Systems Technology (Computer Programmer)

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	- Software Applications Engineer Computer Programmer Game Programmer Operating System Programmer	
	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 6670 IT Fundamentals		
	11	English	Algebra II	Chemistry	US/VA History		BUS 6320 Accounting/ACC 115 & ACC 215 DE		
	12	English 12/English 111/112 DE	Trigonometry/ Advanced Algebra	Physics (or Principles of Technology I and II)	US/VA Government		BUS 6640 Programming/ITP 112 DE		
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.)						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 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 DE	ITN 100 Telecommunications	AST 114 Keyboarding for Information Processing DE	
	Year 1 2 nd Semester	ENG 112 College Composition II DE	BUS 125 Applied Business Mathematics	ITD 130 Database Fundamentals IC	ITP 120 Java Programming I IC	ITP 112 Visual Basic.Net I or ITP 136 C# Programming DE			
	Year 2 1 st Semester	AST 205 Business Communications	BUS 220 Introduction to Business Statistics	ITP 212 Visual Basic.Net II	ITE 221 PC Hardware & OS Architecture	ITP 251 Systems Analysis and Design			
Year 2 2 nd Semester	Personal Wellness Elective	Humanities/Fine Arts Elective	ECO 120 Survey of Economics	ITP 244 ASP.NET Server Side Programming	IT 298 Seminar and Project: Capstone Course				
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
Sun Certified Associate for Java 2 Platform & 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: