

### Personal Career Plan of Study: Computer Programmer

**The purpose of a Personal Career Plan of Study is to provide a student with an example of a coherent sequence of classes focused upon a career pathway that will enable a seamless transition into a postsecondary program.**

**Career Path:** Business, Management & Technology

**Cluster:** Information Technology

▲ Graduation Requirement

CACC courses highlighted

**CACC Program:** Computer Science

	1	2	3	4	5	6	7	8 8 <sup>th</sup> block, Zero hour, or Summer School	Recommended Electives
9	English 9 or English 9 H ▲	Govt/Econ Issues ▲	Integrated Math 2 / 2H or Geometry ▲	Physics 9 or Physics 9 H ▲	Health/PE ▲	Fine Art ▲	Foreign Language	Take P.E. in summer school to complete graduation requirement ▲	MS Office 1
10	English 10/ 10H or AP Language ▲	World Studies ▲	Integrated Math 3 / 3H or Algebra 2 / 2H ▲	Biology or Biology H ▲		C++ Programming (math pre-req of C in Int. 2 or Geom.) Practical Art ▲	Foreign Language	Advisory/AUT	A+ IT Essentials Elect. Essentials Electronics 1
11	English 11/ 11 H or AP English Language & Composition ▲	US Studies or US Studies H or AP US History ▲	Integrated Math 4 / 4H or Pre-Calculus	Science ▲	Advanced C++ Programming	Python Programming		Personal Finance ▲ (summer school)	Public Speaking Networking Exploration CAD 1 Electronics 2
12	English/ Language Arts at High School or Career Center English 12 – College Composition (Dual College Credit) ▲		Calculus or Math 115-College Algebra (Dual College Credit)			Advanced Projects	AP Computer Science A		Civil Eng. & Arch. 3D Modeling & Animation Adv. Networking Electronics 3 Web Design & Interactive Media

**Information regarding College Credit opportunities for CACC students can be found at:**

[http://www.career-center.org/highschool/college\\_credit.cfm?ccprogram=Computer%20Science#choose](http://www.career-center.org/highschool/college_credit.cfm?ccprogram=Computer%20Science#choose)

**Two Year College Degree:** Colleges offering an Associate of Applied Science degree in computer programming include: Indian Hills, Moberly Area, Linn State Technical College, and State Fair.

**Four Year College Degree:** Colleges/Universities in Missouri offering a bachelor's degree in Computer Science include: University of Missouri-all campuses, Washington University, University of Central Missouri, Missouri State University, DeVry University, Columbia College, Webster University, Truman State University, and Northwest Missouri State University.

**Examples of postsecondary required courses:** Analytic Geometry and Calculus 1, Intro to Problem Solving and Programming, Computer Networks, Assembly Language and Computer Organization, Software Engineering I – writing intensive, and Algorithm Design and Programming I/II.