

Associate of Science – Computer Science

Name: _____ ID#: _____ Date: _____

This academic map is a semester-by-semester schedule of courses based upon the AS degree requirements as outlined in the academic catalog. In order for you to graduate in two years, specific milestones, courses and other requirements (e.g. prerequisites) must be met in a timely manner. To ensure that milestone courses are completed, it is important that you, when possible and appropriate, enroll in any needed developmental coursework during the first semester(s) of enrollment. Additionally, keep in mind this map does not substitute for academic advisement. If you have questions, see your advisor and refer to the MACC website for current information.

Taken	Course	Semester	Hours
First Semester			
	ITC120	^Programming I	3
	LAL101	^Composition I	3
	MTH201	^Analytic Geometry & Calculus I	5
	PHY121	^General Chemistry I or other appropriate science	4-5
			15-16
Second Semester			
	ITC220	^Programming II	3
	LAL102	^Composition II	3
	MTH202	^Analytic Geometry & Calculus II	5
	PHY122	^General Chemistry II or other appropriate science	4-5
			15-16
Third Semester			
	HST105 <u>or</u> HST106 <u>or</u> PSC105	American History to 1865 <u>or</u> American History from 1865 <u>or</u> Introduction to American Government	3
	ITC125	^Object Oriented Programming I	3
		<u>Computer Science Elective</u>	3
		<u>Computer Science Elective</u>	3
		<u>Math Elective</u> (MTH230 Discrete Math recommended)	3-5
			15-17
Fourth Semester			
		<u>Computer Science Elective</u>	3
		<u>Computer Science Elective</u>	3
		<u>Directed Elective**</u>	3
	ECN101 <u>or</u> ECN102	Macroeconomics <u>or</u> Microeconomics	3
		<u>Humanities Elective</u> (PHI151 Introduction to Logic or PHI152 Introduction to Ethics recommended)	3
			15
Minimum Required Hours for Degree			60

^Please refer to the college catalog and course descriptions for pre/co-requisite and placement information. You can only register for these courses if you have met the prerequisite, placed into the course and/or enroll in the co-requisite course(s).

Additional Graduation Requirement - Missouri law, included in Senate Bill 807, requires every college student pursuing an associate's or bachelor's degree at a public institution to pass the Missouri Higher Education Civics Achievement Examination with at least a 70 percent to graduate. The rule will apply to the incoming class of first-time college students in the fall of 2019 and all students thereafter.

Science Electives:

^PHY121 General Chemistry I
^PHY122 General Chemistry II
^PHY181 General Physics I
^PHY182 General Physics II
^PHY201 Engineering Physics I
^PHY202 Engineering Physics II
BIO155 General Biology for Majors I
^BIO160 General Biology for Majors II

Computer Science Electives:

^ITC130 Introduction to Networks
ITC145 Web Design I
ITC150 Linux Administration I
^ITC243 Object Oriented Programming II: Java
^ITC244 Object Oriented Programming II: C#
^ITC247 Python Programming
^ITC255 Cybersecurity

Math Electives:

^MTH160 Elementary Statistics
^MTH165 Finite Math
^MTH203 Analytic Geometry & Calculus III
^MTH230 Discrete Math