

# SOFTWARE DEVELOPER, ASSOCIATE IN APPLIED SCIENCE

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully

complete a civics examination. Information on who is eligible for a waiver can be found on the STLCC website (<https://stlcc.edu/programs-academics/missouri-civics-exam.aspx>).

**PLEASE NOTE:** If you originally enrolled at STLCC prior to Spring 2023, you may need to view an archived catalog (<https://www.stlcc.edu/programs-academics/course-catalog/>) for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

Code	Title	Hours	Prerequisites	Milestones/Notes
<b>First Year</b>				
<b>Fall</b>				
IS 280	Python	3	Reading Proficiency	See IS Dept. for Advising Options
ENG 101	College Composition I (MOTR ENGL 100)	3	Placement score or ENG 030 or ENG 070 with a grade of "C" or better or recommendation of department and Reading Proficiency or concurrent enrollment in RDG 079	
IS 153 or 167 or 187 or 166	C# Programming I or C++ Programming I or Java Programming I or C# and Java Programming I	4	Reading Proficiency	Speak to Program Coordinator Before Enrolling in IS 166
IS 120	Introduction to Excel	1	Reading Proficiency	
IS 139	Web Publishing	3	Reading Proficiency	
IS 101 or 123 or 136	Keyboarding or Introduction to Windows or Internet Fundamentals	1		
	<b>Credit Hours</b>	<b>15</b>		
<b>Spring</b>				
MTH 160 or 180	Precalculus Algebra (MOTR MATH 130) or Introductory Statistics (MOTR MATH 110)	3	MTH 140 (or MTH 140S) with a grade of "C" or better or satisfactory score on placement test, and Reading Proficiency	MTH 160S or MTH 180S will also fulfill this requirement, but only 3 credits will apply toward the degree.
IS 168	GitHub for Developers	1	Reading Proficiency	1st or 2nd 8-week class
IS 112	Software and Hardware Architecture	3	Concurrent or prior enrollment MTH 160 (or MTH 160S) or MTH 180 (or MTH 180S) with a minimum grade of "C", and Reading Proficiency	
IS 253 or 287 or 267	C# Programming II or Java Programming II or C++ Programming II	4	IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency	
IS 225	Database Management	4	Reading Proficiency	
	<b>Credit Hours</b>	<b>15</b>		
<b>Summer</b>				
IS 229	Unix/Linux I	3	Reading Proficiency	
	<b>Credit Hours</b>	<b>3</b>		
<b>Second Year</b>				
<b>Fall</b>				
ENG 102 or 103	College Composition II (MOTR ENGL 200) or Report Writing (MOTR ENGL 110)	3	ENG 101 with a minimum grade of "C" and Reading Proficiency	

IS 237	Fundamentals of Information Assurance/Security - CompTIA Security +	3	IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency	
IS 257	Big Data Analytics	3	IS 225 with a minimum grade of "C" and Reading Proficiency	
IS 165	Computer Applications-Microsoft Project	1	Reading Proficiency	
IS 240	SQL and Database Development	3	IS 225 with a minimum grade of "C" and Reading Proficiency	
COM 103 or 112 or 201 or PSY 200 or PHL 102	Small Group Communication (MOTR COMM 125) or Argumentation and Debate (MOTR COMM 220) or Interpersonal Communication (MOTR COMM 120) or General Psychology (MOTR PSYC 100) or Introduction to Logic (MOTR PHIL 101)	3	Reading Proficiency	
	<b>Credit Hours</b>	<b>16</b>		
<b>Spring</b>				
Social & Behavioral Sciences: Civics Requirement		3		
IS 241	Systems Analysis and Design	3	IS 153 or IS 167 or IS 187 with a minimum grade of "C", and IS 139 or IS 253 or IS 267 or IS 287 with a minimum grade of "C", and Reading Proficiency	Capstone class: Take at end of program
IS 285	Excel for Data Analytics	3	IS 120 with a minimum grade of "C", concurrent or prior enrollment in MTH 160 (or MTH 160S) or MTH 180 (or MTH 180S) with a minimum grade of "C", and Reading Proficiency	Apply for graduation
IS 268 or 276	SQL Server Programming or Oracle Programming	3	IS 240 with a minimum grade of "C" and Reading Proficiency	Other 3 credit elective options are: IS 291, IT 121, or IS 257 (if not already completed)
	<b>Credit Hours</b>	<b>12</b>		
	<b>Total Credit Hours</b>	<b>61</b>		

\*Click on the hyperlinked course number to view additional information about the course.

\*\*Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

\*\*\* It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.