

Recommended Academic Plan for Software Developer –Database Focus

Associate in
Applied Science
Degree



This plan is a suggested semester-by-semester plan. It is designed to keep you on track for a timely graduation. This plan is not a substitute for academic advising. Contact an advisor for further information regarding placement based on ACT/SAT or COMPASS exam scores, scheduling, degree requirements, and graduation requirements.

Note: Successful students entering an IS/IT Program have strong basic computer literacy skills. Our programs are rigorous and fast-paced. Students are expected to be able to **competently** use a computer from day one. Although it is not a requirement, the department highly recommends students who need basic computer literacy take IS:116 Computer Literacy (3 credits) prior to beginning any of our programs.

Semester 1 - Fall				
Course	Credits	Prerequisite	Milestone/Notes	Completed
ENG:101 College Composition I	3	Reading Proficiency		
Life and Physical Sciences OR Mathematics Elective	3		MTH:140 if needed	
IS:153 C# Programming I OR IS:187 Java Programming I	4	Reading Proficiency		
IS:139 Web Publishing	3	Reading Proficiency		
IS:229 Unix/Linux	3	Basic computer literacy expected and Reading Proficiency		
Subtotal	16			
Semester 2 - Spring				
Course	Credits	Prerequisite	Milestone/Notes	Completed
MTH:160 College Algebra	4			
IS:112 Software and Hardware Concepts	3	MTH:140 and Reading Proficiency		
IS:253 C# Programming II OR IS:287 Java Programming II	4	IS:153 or IS:187 and Reading Proficiency		
IS:225 Database Management	4	Reading Proficiency		
Subtotal	15			
Summer Session				
Course	Credits	Prerequisite	Milestone/Notes	Completed
ENG:102 College Composition II OR ENG:103 Report Writing	3			
Physical Education Activity	2	At least 1 credit must be an activity		
Subtotal	5			
Semester 3 - Fall				
Course	Credits	Prerequisite	Milestone/Notes	Completed
IS:283 C# Programming III OR IS:288 Java Programming III	4	IS:253 and Reading Proficiency for IS:283 OR IS:287 and Reading Proficiency for IS:288		
IS:240 SQL and Database Development	3	IS:225 and Reading Proficiency		
IS:241 Systems Analysis and Design	3	IS:153 or IS:187 and Reading Proficiency		
IS:237 Fundamentals of Information Assurance/Security	3	IT:102 and Reading Proficiency or IS:229 and Reading Proficiency		
*Social and Behavioral Sciences Elective that Meets the Missouri State Requirement	3			
Subtotal	16			
Semester 4 - Spring				
Course	Credits	Prerequisite	Milestone/Notes	Completed
IS:257 Advanced Database Design	3	IS:225 and Reading Proficiency	Apply for graduation	
IS:268 SQL Server Programming OR IS:273 Oracle Design and Implementation OR IS:276 Oracle Programming	3	IS:240 with a minimum grade of "C" OR IS:225 with a minimum grade of "C" and Reading Proficiency		
Social and Behavioral Sciences Elective	3			
IS Elective	3			
Subtotal	12			
Total Hours in the Program: 64				

*See Catalog for classes that will fulfill the elective requirements catalog.stlcc.edu

**Students completing STLCC's Missouri General Education requirements will receive verification on their transcripts that is recognized by all Missouri public colleges and universities except the University of Missouri-Columbia.

***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.

Software Developer - Database Focus - AAS

Quick Checklist

Courses	Credit Hours	Notes
GENERAL EDUCATION		
ENG:101 College Composition I		
ENG:102 College Composition II OR ENG:103 Report Writing		
MTH:160 College Algebra		
Life and Physical Sciences Elective OR Mathematics Elective		
Social and Behavioral Sciences Elective		
Social and Behavioral Sciences Elective that meets the Missouri State Requirement		
PHYSICAL EDUCATION 2 credit hours At least one credit must be an activity		
REQUIRED COURSES		
IS:112 Software and Hardware Concepts		
IS:139 Web Publishing		
IS:225 Database Management		
IS:229 Unix/Linux		
IS:241 Systems Analysis and Design		
IS:237 Fundamentals of Information Assurance/Security		
IS:153 C# Programming I OR IS:187 Java Programming I		
IS:253 C# Programming II OR IS:287 Java Programming II		
IS:283 C# Programming III OR IS:288 Java Programming III		
AREA OF CONCENTRATION - FOCUS		
IS:240 SQL and Database Development		
IS:257 Advanced Database Design		
IS:268 SQL Server Programming OR IS:273 Oracle Design and Implementation OR IS:276 Oracle Programming		
IS: Elective		

For more information, please see stlcc.edu/Programs/Degrees or consult the College Catalog at catalog.stlcc.edu

Advisor Contact Information

Name
Phone
Email