## **Software & Database Developer** ASSOCIATE IN SCIENCE (AS) 2025 - 2026

## **General Education (15 hours)**

The Associate in Science degree consists of a minimum of 60 college-level semester hours with at least 15 semester hours of General Education

Core courses. The General Education Core courses are chosen for their appropriateness for each degree and represent courses from each the following disciplines: humanities/fine arts, natural science/mathematics, behavioral science social science and communications. Consult wi your Faculty Advisor if you have any questions.	of e/ th	
Communications (3/4 credits)		
□ ENC1101 English Composition I • +* □ ENC1101C Enhanced English Comp. I • +*	3 4	
Humanities (3 credits) Select one Humanities course		
Humanities 1–Visual & Performing Arts		
☐ ARH2000 Understanding Visual Arts●☐ MUL2010 Understanding Music●☐ THE2000 Understanding Theater●	3 3 3	
Humanities 2–Philosophy/Religion Prerequisite ENC1101 or ENC1101C with grade "C" or hi	gher.	
☐ HUM2020 Introduction to Humanities●+* ☐ PHI2010 Intro. to Philosophy●+*	3	
Humanities 3–Literature Prerequisite ENC1102 with grade "C" or higher.		
☐ LIT2000 Literature and Culture●+*	3	
Mathematics (3 credits)		
mathematics (5 credits)		
☐ MAC1105 College Algebra •+*	3	
	3	
☐ MAC1105 College Algebra • + *  Natural Sciences (3 credits)	3 3 3 3 3	
MAC1105 College Algebra ●+*  Natural Sciences (3 credits) Select one Science course  Physical Sciences  AST1002 Descriptive Astronomy ● CHM1045 General Chemistry ● + ESC2000 Earth & Space Science Survey ● EVR1001 Intro. to Environmental Science ● GLY1010 Physical Geology ● OCE1001 Fundamentals of Oceanography ● PHY1020 Basic Concepts of Physics ● PHY2048 University Physics I ● + PHY2053 College Physics I ● + Biological Sciences BSC1005 General Biological Science ● BSC2010 Biology for Science Majors I ● +	3 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	

Government

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Student's ID Number:		
Pathway Navigator:	Faculty Advisor:	
Major Courses (45 hours)	Courses not Used	
Individuals pursuing an Associate in Science degree in the Software and Database Developer program want to begin or advance a career in software/database development. Graduates from this program seek positions as software developers, quality assurance specialists, database specialists and systems analysts. This program focuses on programming logic, in demand programming languages, database programming and design and analysis associated with creating software applications. A strong emphasis is placed on working collaboratively in a team environment, communicating effectively, and cultivating good software development skills.  CGS1570 Microcomputer Applications COP1000 Intro. to Programming Logic* 3 COP2700 Data Structure (SQL) CIS2321 System Analysis & Design+ CGS1103 Project Mgmt. Concepts & Process. 3 COP2250 Java Programming I+* 3 COP2250 Java Programming I+* 3 COP2240 Internet Programming+ 3 DIG2100 Web Design I CTS1111 Linux+(plus)* 3 CTS1650 Network Fundamentals* 3 COP2701 Database Design & Mgmt.+* 3 CCPN2212 Intro. to Program. the Internet of Things+ 3 CCP2940 Integrat. Program. & Tech. Capstone+# 3		
Other AS Requirements		
General Education Core Requirement Successful completion of at least one dotted core course from each of the five major general education areas: Communications, Humanities, Mathematics, Natural Sciences, Social Sciences  Civic Literacy Requirement (@) Successful completion of AMH 2010 OR AMH 2020 OR POS 2041 AND passing score on civic		
literacy exam (FCLE)		
Developmental Courses		
□ ENC0022 Dev. Writing I & II Combined* 3 □ REA0019 Dev. Reading I & II Combined* 3 □ MAT0012 Dev. Arithmetic with Algebra* 3		
Key		
<ul><li>+ = Prerequisite or co-requisite required</li><li>* = Minimum grade of "C" required</li></ul>		

- @ = Course meets Civic Literacy Requirement
- •= General Education Core course

Student's Name:

#=Applies to A.S. and Certificate Programs