# Software & Database **Developer**

Pathway Navigator:	Faculty Advisor:

ASSOCIATE IN SCIENCE (A	S)
2024 - 2025	
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 of the following disciplines: humanities/fine arts, natural science/mathematics, behavioral science/social science and communications. Consult with your Faculty Advisor if you have any questions.	Ir d p s th d d p d
Communications (3/4 credits)	e
□ ENC1101 English Composition I • + * 3 □ ENC1101C Enhanced English Comp. I • + * 4	te C
Humanities (3 credits)	
Select one Humanities course	F
<b>Humanities 1–Visual &amp; Performing Arts</b>	
□ ARH2000 Understanding Visual Arts •       3         □ MUL2010 Understanding Music •       3         □ THE2000 Understanding Theater •       3	
Humanities 2–Philosophy/Religion Prerequisite ENC1101 or ENC1101C with grade "C" or higher	. [
☐ HUM2020 Introduction to Humanities•+* 3 ☐ PHI2010 Intro. to Philosophy•+* 3	
Humanities 3-Literature Prerequisite ENC1102 with grade "C" or higher.	
☐ LIT2000 Literature and Culture •+* 3	
Mathematics (3 credits)	
☐ MAC1105 College Algebra • + * 3	
Natural Sciences (3 credits) Select one Science course	
Physical Sciences  ☐ AST1002 Descriptive Astronomy• 3 ☐ CHM1045 General Chemistry•+ 3 ☐ ESC2000 Earth & Space Science Survey• 3 ☐ EVR1001 Intro. to Environmental Science• 3 ☐ GLY1010 Physical Geology• 3	

#### **Major Courses (45 hours)** Courses not Used ndividuals pursuing an Associate in Science legree in the Software and Database Developer program want to begin or advance a career in oftware/database development. Graduates from nis program seek positions as software levelopers, quality assurance specialists, latabase specialists and systems analysts. This program focuses on programming logic, in emand programming languages, database programming and design and analysis associated vith creating software applications. A strong emphasis is placed on working collaboratively in a eam environment, communicating effectively, and cultivating good software development skills. GS1570 Microcomputer Applications COP1000 Intro. to Programming Logic\* 3 **Notes** COP2700 Data Structure (SQL) CIS2321 System Analysis & Design+ CGS1103 Project Mgmt. Concepts & Process. 3 COP2250 Java Programming I+\* 3 COP2224 C++ Programming I+\* 3 COP2840 Internet Programming+ 3 DIG2100 Web Design I CTS1111 Linux+(plus)\* CTS1650 Network Fundamentals\* COP2701 Database Design & Mgmt.+\* CTS1120 Security+(plus)+\* CEN2212 Intro. to Program. the Internet of Things+ $^3$ COP2940 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\* REA0019 Dev. Reading I & II Combined\* 3 ☐ MAT0012 Dev. Arithmetic with Algebra\*

## Social Sciences (3 credits) Select one Social Science Course

☐ OCE1001 Fundamentals of Oceanography ● ☐ PHY1020 Basic Concepts of Physics ●

☐ PHY2048 University Physics I • +

☐ BSC1005 General Biological Science●

☐ BSC2085 Anatomy & Physiology I •+

BSC2010 Biology for Science Majors I++

☐ PHY2053 College Physics I • +

**Biological Sciences** 

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### History

- ☐ AMH2010 United States History I•@ ☐ AMH2020 United States History II•@ Government
- ☐ POS2041 American Nat'l Government @

## Key

- + = Prerequisite or co-requisite required
- \* = Minimum grade of "C" required

Student's Name:

Student's ID Number:

- @ = Course meets Civic Literacy Requirement
- •= General Education Core course
- #=Applies to A.S. and Certificate Programs