# ASSOCIATE IN SCIENCE (AS) DEGREE 2023-2024 

| Student's Name: | Student's ID Number: |
| :--- | :--- |
| Date: | Pathway Navigator/Faculty Advisor: |

Associate of Science: Software and Database Developer (SDD-AS)

## 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.

| Communications (3/4 credits) |  |
| :--- | :--- |
| $\square E N C 1101$ English Composition l•+* | 3 |
| $\square$ ENC1101C Enhanced English Comp. l•+* | 4 |

Humanities (3 credits)
Select one Humanities course

Humanities 1-Visual \& Performing ArtsARH2000 Understanding Visual Arts•MUL2010 Understanding Music• $\square$ THE2000 Understanding Theater•

## Humanities 2-Philosophy/Religion

Prerequisite ENC1101 or ENC1101C with grade "C" or higher.
$\square$ PHI2010 Intro. to Philosophy •+*
Humanities 3-Literature Prerequisite ENC1102 with grade "C" or higher.LIT2000 Literature and Culture•+*

## Mathematics (3 credits)

MAC1105 College Algebra•+*

## Natural Sciences ( 3 credits) Select one Science course

## Physical Sciences

AST1002 Descriptive Astronomy • 3CHM1045 General Chemistry•+ 3
ESC2000 Earth \& Space Science Survey • 3
EVR1001 Intro. to Environmental Science• 3PHY1020 Basic Concepts of Physics• 3PHY2048 University Physics l•+
PHY2053 College Physics l•+
Biological SciencesBSC1005 General Biological Science• 3
BSC2010 Biology for Science Majors l•+
$\square$ BSC2085 Anatomy \& Physiology l•+
Social Sciences (3 credits) Select one Social Science Course

## History

AMH2020 United States History Il•@

Government
$\square$ POS2041 American Nat'l Government•@

Major Courses (45 hours)
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.
$\square$ CGS1570 Microcomputer Applications
3 COP1000 Intro. to Programming Logic*
COP2700 Data Structure (SQL)
CIS2321 System Analysis \& Design+
ZCGS1103 Project Mgmt. Concepts \& Process.
$\square$ COP2250 Java Programming l+*
-COP2224 C++ Programming I+*
COP2840 Internet Programming+
DIG2100 Web Design I
COP2657 Intro. to SmartPhone Program. ${ }^{*}$
CTS1650 Network Fundamentals*
$\square$ COP2701 Database Design \& Mgmt. ${ }^{\star}$
CTS1120 Security+(plus)+*
CEN2212 Intro. to Program. the Internet of Things+
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 2020 OR POS
2041 AND passing score on the Florida 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

[^0]Courses not Used
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## Notes


[^0]:    + = Prerequisite or co-requisite required
    * $=$ Minimum grade of " $C$ " required
    @ = Course meets Civic Literacy Requirement
    -= General Education Core course
    \#=Applies to A.S. and Certificate Programs

