o tware Database Develo er

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Student's Name: _____

Student's ID Number: _____

Pathway Navigator: ***Rachel Hibbard*** **Faculty Advisor:** ***Tonitta Sauls***

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.

☐ ENC1101 English Composition I●+* 3
☐ ENC1101C Enhanced English Comp. I●+* 4

Humanities (3 credits)
Select one Humanities course

Humanities 1–Visual & Performing Arts

☐ **A 2 Understanding isual Arts**
☐ **MUL2 Understanding Music**
☐ **E2 Understanding heater**

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.

☐ ***2000 iterature*** and Culture +

Mathematics (credits)

☐ **MAC 5 College Algebra**

Natural ciences (credits)
elect one cience course

Physical Sciences

☐ ***A 1002 escri tive Astro o y***
☐ ***C 10 e eral Che istry***
☐ ***E C2000 Earth ace cie ce urvey***
☐ ***E 1001 tro. to E viro e tal cie ce***
☐ ***1010 Physical eology***
☐ ***CE1001 Fu da e tals o cea ogra hy***
☐ ***P 1020 asic Co ce ts o Physics***
☐ ***P 20 iversity Physics***
☐ ***P 20 College Physics***

Biological Sciences

☐ [illegible]
☐ [illegible]
☐ [illegible]

Social Sciences (3 credits)
Select one Social Science Course

History

☐ [illegible]
☐ [illegible]

Government

☐ ***326 [illegible]***

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.

☐ CGS1570 Microcomputer Applications 3
☐ COP1000 Intro. to Programming Logic* 3
☐ COP2700 Data Structure (SQL) 3
☐ CIS2321 System Analysis & Design+ 3
☐ CGS1103 Project Mgmt. Concepts & Process. 3
☐ COP2250 Java Programming I+* 3
☐ COP2224 C++ Programming I+* 3
☐ COP2840 Internet Programming+ 3
☐ DIG2100 Web Design I 3
☐ CTS1111 Linux + * 3
☐ CTS1650 Network Fundamentals* COP2701 3
☐ Database Design & Mgmt.+* CTS1120 3
☐ Security+(plus)+* 3
☐ CEN2212 Intro. to Program. the Internet of Things+ 3
☐ COP2940 Integrat. Program. & Tech. Capstone+# 3

Other A S Requirements

☐ [illegible]
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

+ = 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

Courses not Used

☐ _____
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Notes

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