Computing and Information Technology - Software – Programming

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS) REQUIRED CREDITS: **60** DEGREE CODE: **CITSP-AAS**

DESCRIPTION

This degree prepares students for employment in fields related primarily to computer software. Core courses cover the fundamental knowledge areas and the CIT Concentrations cover specific software skill sets.

STUDENT LEARNING OUTCOMES

- Create database systems typically used in information management.
- Compile best practices for implementing secure software development.
- Summarize workplace effectiveness in the context of business awareness.
- Model positive work ethics and interpersonal skills during team projects.
- Code functioning applications within their concentration.
- Debug non-functioning applications within their concentration.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (23 CREDITS)

MATHEMATICS (3 credits)
MATH 120 or 124 or 127 or above

ENGLISH COMPOSITION (3-5 credits)
ENG 100 or 101 or 113

COMMUNICATIONS (3 credits)
COM 101 or 102

HUMAN RELATIONS (3 credits)
ALS 101; ANTH 101, 112, 201, 205; COM 102; HIST 105, 106, 107, 150, 151, 210, 247, 260; HMS 130, 135B, 265B; MGT 100B, 283; PHIL 135, 210, 216, 245; PSC 201; PSY 101, 102, 207, 208, 261; SOC 101 or above; WMST 113

NATURAL SCIENCE (4 credits)
Recommended: EGG 131 and 131L

FINE ARTS/HUMANITIES/SOCIAL SCIENCES (3 credits)
See AAS policy p. 47 for courses

U.S. AND NEVADA CONSTITUTIONS (4-6 credits)
See AAS policy p. 47 for courses

SPECIAL PROGRAM REQUIREMENTS (37 CREDITS)

CORE REQUIREMENTS (21 credits)

CIT 112B	Network+	3
CIT 130	Beginning Java	3
CIT 151	Beginning Web Development	3
CIT 160	Introduction to Computer Security	3
CIT 180	Database Concepts and SQL	3
CIT 263B	Project Management	3
IS 115	Introduction to Programming	3

Choose one from the following (0-3 credits)

IS 100B	Core Computing Competency	0
IS 101	Introduction to Information Systems	3

Electives #1 (choose 4-6 credits)
ACC 201; CF; CIT; CS; CSCO; GIS; GRC 103

Electives #2 (choose 12 credits)
(At least 6 credits must be 200 level)

CIT 131	Beginning C Programming	3
CIT 132	Beginning Visual Basic	3
CIT 133	Beginning C++*	3
CIT 134B	Beginning C# Programming	3
CIT 230	Advanced Java	3
CIT 231	Advanced C Programming	3
CIT 232	Advanced Visual Basic	3
CIT 233	Advanced C++**	3
CIT 238B	Introduction to Smartphone Application Development	3
CS 135	Computer Science I*	3
CS 202	Computer Science II**	3

* Cannot use both CIT 133 and CS 135 toward the completion of the concentration.

** Cannot use both CIT 233 and CS 202 toward the completion of the concentration.

See Degree Plan on next page.

NOTE
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
- Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
- In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
- Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

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FULL-TIME STUDENT DEGREE PLAN

Plan can be modified to fit the needs of part-time students by adding more semesters.

FIRST SEMESTER	**Credits**
Complete Mathematics (see courses previous page)	3
Complete English Composition (see courses previous page)	3-5
COM 101 or 102	3
Complete Human Relations (see courses previous page)	3
IS 115 Introduction to Programming	3
IS 100B or IS 101	0-3
TOTAL CREDITS	***15-20***

SECOND SEMESTER	**Credits**
EGG 131 and 131L	4
Complete AAS US/Nevada Constitutions[1] p. 47	4-6
CIT 112B Network +	3
CIT 130 Beginning Java	3
Complete Electives #2 (CIT 100 level programming language except CIT 130)[2]	3
TOTAL CREDITS	***17-19***

THIRD SEMESTER	**Credits**
CIT 151 Beginning Web Development	3
CIT 160 Introduction to Computer Security	3
CIT 180 Database Concepts and SQL	3
Complete Electives #2 (CIT 100 level programming language[2])	3
Complete Electives #2 (CIT 200 level programming language[2])	3
TOTAL CREDITS	***15***

FOURTH SEMESTER	**Credits**
Complete AAS Fine Arts/Humanities/Social Sciences p. 47	3
CIT 263B Project Management	3
Complete Electives #1[3]	4-6
Complete Electives #2 (CIT 200 level programming language[2])	3
TOTAL CREDITS	***13-15***

DEGREE PLAN TOTAL CREDITS..... 60-69

Please Note: Summer sessions can be used to lower semester loads – see your counselor.

[1]PSC 101 completes this requirement at 4 credits. If you choose the HIST option, complete HIST 101 or 111 in the second semester and HIST 102 or 217 in the fourth semester.

[2]At least 6 credits must be 200 level.

[3]Preferred program electives for this degree include any CIT 100 level programming language or any CIT 200 level programming language classes not already taken for this degree, or from CIT 152, CIT 184, and CIT 257.