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)

MATHMATICS (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; 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. 49 for courses

U.S. AND NEVADA CONSTITUTIONS (4-6 credits)
See AAS policy p. 49 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)
(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.
# Computing and Information Technology - Software - Programming

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**REQUIRED CREDITS:** 60

**DEGREE CODE:** CITSP-AAS

## FULL-TIME STUDENT DEGREE PLAN

*Add more semesters to modify this plan to fit part-time student needs.*

### FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete Mathematics (see courses previous page)</td>
<td>3</td>
</tr>
<tr>
<td>Complete English Composition (see courses previous page)</td>
<td>3-5</td>
</tr>
<tr>
<td>COM 101 or 102</td>
<td>3</td>
</tr>
<tr>
<td>Complete Human Relations (see courses previous page)</td>
<td>3</td>
</tr>
<tr>
<td>IS 115 Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>IS 100B or IS 101</td>
<td>0-3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS.................................................................15-20**

### SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGG 131 and 131L</td>
<td>4</td>
</tr>
<tr>
<td>Complete AAS US/Nevada Constitutions(^1) p. 49</td>
<td>4-6</td>
</tr>
<tr>
<td>CIT 112B Network +</td>
<td>3</td>
</tr>
<tr>
<td>CIT 130 Beginning Java</td>
<td>3</td>
</tr>
<tr>
<td>Complete Electives #2</td>
<td>3</td>
</tr>
</tbody>
</table>

(CIT 100 level programming language except CIT 130)\(^2\)

**TOTAL CREDITS.................................................................17-19**

### THIRD SEMESTER

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 151 Beginning Web Development</td>
<td>3</td>
</tr>
<tr>
<td>CIT 160 Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>CIT 180 Database Concepts and SQL</td>
<td>3</td>
</tr>
<tr>
<td>Complete Electives #2 (CIT 100 level programming language)(^2)</td>
<td>3</td>
</tr>
<tr>
<td>Complete Electives #2 (CIT 200 level programming language)(^2)</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS.................................................................15**

### FOURTH SEMESTER

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete AAS Fine Arts/Humanities/Social Sciences p. 49</td>
<td>3</td>
</tr>
<tr>
<td>CIT 263B Project Management</td>
<td>3</td>
</tr>
<tr>
<td>Complete Electives #1(^3)</td>
<td>4-6</td>
</tr>
<tr>
<td>Complete Electives #2 (CIT 200 level programming language)(^2)</td>
<td>3</td>
</tr>
</tbody>
</table>

**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.