

**Computing and Information Technology - Information Management - Virtual Computing Analyst**

CERTIFICATE OF ACHIEVEMENT (CA)

REQUIRED CREDITS: 30

DEGREE CODE: CITIMVCACT

**IMPORTANT**

Important information about the educational debt, earnings, and completion rates of students who attended this program are located at [www.csn.edu/gainful-employment](http://www.csn.edu/gainful-employment).

**DESCRIPTION**

This program teaches advanced technical skills for students and working professionals that have completed an Associate of Applied Science degree in Computer and Information Technology. Concentration areas allow students to expand their skill in the specialty area of their choice. This certificate is also accepted as the third year of study at other institutions that articulate a joint Bachelors of Applied Science degree with the College of Southern Nevada.

**STUDENT LEARNING OUTCOMES**

- Develop system design specifications based on prescribed criteria.
- Code systems within the scope of concentration area.
- Debug systems within the scope of concentration area.
- Recommend hardware and/or software within scope of concentration area.
- Formulate advanced project management timetables and costs.
- Incorporate scalability and redundancy into system designs.

**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 (9 CREDITS)**

**MATHEMATICS (3 credits)**

MATH 124 or above

**ENGLISH (3-5 credits)**

ENG 100 or 101 or 102 or 113 or 114

**COMMUNICATIONS (3 credits)**

Required: COM 101 Oral Communication

**SPECIAL PROGRAM REQUIREMENTS (21 CREDITS)**

|         |  |   |
|---------|--|---|
| CIT 319 | Managing Business Data Networks              | 3 |
| CIT 330 | Designing Virtualized Systems                | 4 |
| CIT 363 | Advanced Project and Earned Value Management | 3 |
| CIT 430 | Optimizing Virtualized Systems               | 4 |
| CIT 431 | Open Source Virtualized Systems              | 4 |
| ET 301  | Customer Service Management                  | 3 |

Computation included in MATH 124 or above

Human Relations included in ET 301

**FULL-TIME STUDENT DEGREE PLAN**

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

**FIRST SEMESTER**

|  | <b>Credits</b> |
|--|----------------|
| Complete Mathematics (see courses this page) | 3              |
| Complete English (see courses this page)     | 3-5            |
| ET 301 Customer Service Management           | 3              |
| CIT 330 Designing Virtualized Systems        | 4              |
| <b>TOTAL CREDITS</b> .....                   | <b>13-15</b>   |

**SECOND SEMESTER**

|  | <b>Credits</b> |
|--|----------------|
| COM 101 Oral Communication                           | 3              |
| CIT 319 Managing Business Data Networks              | 3              |
| CIT 363 Advanced Project and Earned Value Management | 3              |
| CIT 430 Optimizing Virtualized Systems               | 4              |
| CIT 431 Open Source Virtualized Systems              | 4              |
| <b>TOTAL CREDITS</b> .....                           | <b>17</b>      |

**DEGREE PLAN TOTAL CREDITS..... 30-32**

- 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](http://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.

