Prepare for C++ Institute Certifications
— *While working on your AA or AAS Degree or Certificate of Achievement*

The CIT Department at the College of Southern Nevada offers many courses to help you prepare for industry-recognized certifications. The courses will also fulfill requirements for AAS Degrees and Certificates of Achievement. This document presents C++ Institute certifications and their associated courses. All courses are 3 credits, unless noted otherwise.

The course material of each class can serve only as a guide to the specific topics covered in the certification exams. Passing these classes does not guarantee that you will pass the certification exams. Additional review and practice will be required to achieve the mastery of the concepts and skills needed to pass the exams.

(If you already hold *current* versions of these industry certifications, you may wish to use them to petition for **Non-Traditional Educational (NTE)** credit for relevant courses required for AAS degrees or Certificates of Achievement. Specific rules, procedures and limitations apply. See the Alternative Credit Options (*https://catalog.csn.edu/content.php?catoid=11&navoid=2829*) section in the online *2023–2024 General Catalog, Admissions Information* for details. Scroll down to find the "Non-Traditional Education (NTE)" section.)

Refer to the online 2023-2024 Catalog for Course Descriptions and Degree Requirements.

Contact Eve Taghva, Software Program Director, for more information about these certifications.

C++ Institute

The C++ Institute (*https://cppinstitute.org/cc-certification-exams*) offers certifications in both the C programming language and the C++ programming language. Classes at CSN will help you prepare for certifications at both the Associate level and at the Professional level.

All the classes mentioned below can be used to fulfill requirements for the following degree:

- AAS Degree in CIT Software – Programming (electives)

C++ Institute — C++ Certified Associate Programmer (CPA)

This certification validates a basic knowledge of the C++ programming language. While the following classes at CSN are not tied directly to any certification, they will help you prepare for the C++ Associate Programmer exam.

- CS 135 Computer Science I (Prerequisite: MATH 127 or 128) and CS 202 Computer Science (Prerequisite: CS 135)

  - CS 135 and CS 202 are core courses in the Computer Science AA degree.

  - For the Computer Science Certificate of Achievement, CS 135 is a core requirement; CS 202 is an elective.

C++ Institute — C++ Certified Professional Programmer (CPP)

This certification validates an advanced knowledge of the C++ programming language. While the following classes at CSN are not tied directly to any certification, they will help you prepare for the C++ Professional Programmer exam.

- CS 202 Computer Science II (Prerequisite: CS 135)

C++ Institute — C Programming Language Certified Associate (CLA)

This certification validates a basic knowledge of the C programming language. While the following class at CSN is not tied directly to any certification, it will help you prepare for this C Programming exam:

- CIT 131 Beginning C Programming (Prerequisite: CIT 129 (formerly, IS 115))

C++ Institute — C Certified Professional Programmer (CLP)

This certification validates your knowledge of the advanced C programming language concepts, including library functions and usage of preprocessors. While the following class at CSN is not tied directly to any certification, it will help you prepare for this C Programming exam:

- CIT 231 Advanced C Programming (Prerequisite: CIT 131)

Costs

Fees for 100-200 level classes are
- about $411 for 3-credit courses
- about $543 for 4-credit courses

Fees for 300-400 level classes are
- about $634 for 3-credit courses
- about $845 for 4-credit courses

For additional fees, such as those for online courses and for non-residents, go to the cashier's Tuition & Fees page (*https://www.csn.edu/financial-aid/tuition-and-fees*). If applicable, Additional Course Fees are noted in MyCSN.

The fees for the certification exams are NOT included in CSN's fees. Textbooks are an additional expense.

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