

# Prepare for C++ Institute Certifications

## — While working on your 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 AWS certifications and their associated preparatory 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. You will find the specific rules, procedures, and limitations in the online [2024-2025 General Catalog \(https://catalog.csn.edu/\)](https://catalog.csn.edu/):

- Select “Admission Information” in the Catalog Navigation bar
- Select “Alternative Credit Options” from the Admission Information options
- Scroll down to the “Non-Traditional Education (NTE)” section

Refer to the online 2024-2025 Catalog for [Course Descriptions](#) and [Degree Requirements](#).

Contact [Eve Taghva](#), Software Program Director, for more information about these certifications.

## C++ Institute

The [C++ Institute \(https://cppinstitute.org/cc-certification-exams\)](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. Choose either of the two paths available:

- CIT 133 Beginning C++ (Prerequisite: CIT 129 and CIT 233 Advanced C++ (Prerequisite: CIT 133 OR CS 135))
- 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. Choose either of the two courses available:

- CIT 233 Advanced C++ (Prerequisite: CIT 133 OR CS 135)
- 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 \$456 for 3-credit courses
- about \$585 for 4-credit courses

Fees for 300-400 level classes are

- about \$674 for 3-credit courses
- about \$902 for 4-credit courses

For additional fees, such as those for online courses and for non-residents, go to the cashier's [Tuition & Fees](https://www.csn.edu/financial-aid/tuition-and-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.

*Updated 28 July 2024 for the 2024-2025 Academic Year.*