

Associate of Applied Science: Information Technology Specialist

The A.A.S. degree and Certificates of Occupational Proficiency are designed to prepare students for an entry-level position in the Information Technology (IT) industry. Students pursuing this degree will receive training through classroom and hands-on activities to acquire the knowledge of how to build, maintain, secure, and troubleshoot PCs, servers, LANs, and WANs. Additionally, courses provide students with the necessary skills and preparation to pass specific IT industry certifications such as:

- Comp TIA: A+, Net+, Security+, Server+
- Microsoft Technology Associate (MTA): Networking Fundamentals, Security Fundamentals, Windows Server Administration Fundamentals
- Cisco: CCNA

The A.A.S. degree combines required general education and specific IT program requirements. It also allows for 13 credits of advised electives, offering students the ability to take courses in their area of interest to meet their career goals.

Students must demonstrate college-level reading, writing, and mathematical skills as pre-requisites for courses within this program. Skills in these areas may affect the sequence of courses in which you can enroll and may also extend the time required to complete the program. For more details see the Academic Placement and Testing section.

Graduates of the program earn an Associate of Applied Science Degree in Information Technology Specialist.

The A.A.S. Information Technology Specialist program is offered at Glenwood Springs. Please see your advisor for a recommended sequence of courses.

General Education Requirements (15-16 credits)

_____	* CIS 118 Introduction to PC Applications (or advised general education elective)	3
_____	* COM 115 Public Speaking	3
_____	OR	
_____	* COM 125 Interpersonal Communication	(3)
_____	ENG 121 English Composition I	3
_____	MAT 107 Career Math (or higher)	3-4
_____	* PSY 106 Human Relations	3
_____	OR	
_____	PSY 211 Leadership Development	(3)
		15-16

Program Requirements (45 credits)

_____	CNG 101 Introduction to Networking	3
_____	CNG 121 Computer Technician I: A+	4
_____	CNG 122 Computer Technician II: A+	4
_____	CNG 124 Networking I: Network+	3
_____	CNG 125 Networking II: Network +	3
_____	CNG 131 Network Security Fundamentals	3
_____	CNG 132 Principles of Information Security	3
_____	CNG 212 Managing an MS Windows Server Environment	4
_____	CNG 260 Cisco Network Associate I	5
_____	Advised IT electives (CIS, CNG, CSC, CWB)	13
		45

Minimum Credit Hours Required 60-61
Minimum Contact Hours Required 900

Information Technology The following certificates (A+, CCNA, MOS, Network+, Security+, and Server+) are designed to prepare students for skills upgrade or entry-level careers in various information technology fields. These certificates provide students with the knowledge and hands-on skills to build, secure, and manage local area networks (LANs) and wide area networks (WANs), and learn Microsoft Office computer skills, and how to protect vital information. Additionally, some certificates provide students with the necessary skills and knowledge to pass specific industry certifications, such as Comp TIA A+, Microsoft Office Specialist, Network+, Security+, Server+, and Cisco Certified Network Associate (CCNA).

Students may need to demonstrate college-level proficiency in reading and mathematical skills before entering these programs. Skills in these areas may affect the sequence of courses in which students can enroll and may also extend the time required to complete the program. See the Academic Placement and Testing section.

Graduates of these programs will receive a Certificate of Occupational Proficiency in the specific areas listed below.

The Information Technology certificates are offered at specific campuses and/or through Online Learning. Many of the courses/certificates are available using a hybrid model with online course work and course-specific labs offered at one of our campuses. Some travel to campus lab sites may be required. For details consult a Colorado Mountain College advisor. For a full description of the courses, see the Course Description section.

Certificate of Occupational Proficiency:

- A+ Computer Technician
- Cisco Certified Network Associate (CCNA)
- Microsoft Office Specialist
- Network +
- Security+
- Server+

Certificate: A+ Computer Technician This certificate provides a broad base of knowledge and competency in core hardware and operating system technologies including installation, configuration, diagnosing, preventive maintenance, and basic networking. It is a foundation certificate for computer repair technicians.

Additionally, this certificate prepares students to take the CompTIA A+ certification exams, an international industry credential that validates the knowledge of computer service technicians with the equivalent of 500 hours of hands-on experience. Major hardware and software vendors, distributors and resellers accept CompTIA A+ certification as the standard in foundation-level, vendor-neutral certification for service technicians. The exams cover a broad range of hardware and software technologies, but are not bound to any vendor-specific products. The A+ certificate is offered at the Roaring Fork Campus - Glenwood Springs, and the Summit Campus - Dillon.

_____	CNG 121 Computer Technician I: A+	4
_____	CNG 122 Computer Technician II: A+	4

Minimum Credit Hours Required 8
Minimum Contact Hours Required 120