Associate of General Studies Degree

The Associate of General Studies (AGS) degree is designed for individuals who have acquired previous education in a diversity of subjects and wish to acquire a degree. This degree is not designed to transfer into baccalaureate programs.

Associate of General Studies Requirements Summary

	Credits
GBC Orientation	0.5
English/Communications	6
ENG 101, ENG 102, ENG 107, ENG 108, COM 101	
U.S. and Nevada Constitutions	3
PSC 101 or HIST 101 and HIST 102	
Science	3
Mathematics	3
MATH 116 or higher (Includes STAT 152)	
Social Sciences	3
Humanities	3
Emphasis/Additional Program Requirements	39
Minimum Credits	60

See AA/AS degree for courses that fulfill requirements and are not listed above.

Associate of Applied Science Degree

The Associate of Applied Science (AAS) degree is designed for persons who desire education for an occupation or a technical career. The courses and programs of the AAS degree aim to prepare students for entry-level employment. Students also use the career and technical education programs to upgrade themselves in the positions they hold. Many persons enroll in career and technical courses to improve their abilities and understanding of everything from management to welding, from financial planning to computing.

In general, career and technical courses are not meant to satisfy requirements of lower-division baccalaureate programs, but do prepare students for GBC's Bachelor of Applied Science degree. If the three-digit course number (001-299) is designated with a "B" suffix (220B), the course will not transfer to a Nevada university. The "B" designator does not appear on transcripts. The career and technical education programs do provide a generous component of liberal education coursework which is meant to develop intellectual curiosity and which promotes creative thought. The general education courses are also university transfer courses.

Career and Technical Education Admission

Admission standards for the Associate of Applied Science and Certificate of Achievement in the Career and Technical Education (CTE) area for disciplines in Diesel Technology, Electrical Systems Technology, Instrumentation Technology, Industrial Millwright Technology, and Welding Technology are listed below.

Application Deadline: April 1
Prospective students are required to formally apply for admission to the Career and Technical Education (CTE) Department. To do so:

1. The prospective student needs to pick up a CTE Department Admissions Application form from the CTE Department (not from Admissions and Records), fill it out, and return it to the CTE Department by April 1. (Please make sure to declare a major on this form.) The CTE department is located in EIT 255.

2. Along with the CTE Department Admissions Application form, the student needs to submit to the CTE Department:

   a. Three letters of recommendation.
   b. A resumé.
   c. A letter of intent.
   d. High school transcripts or GED scores if applicable, military training records if applicable, and/or higher education records if applicable.
   e. The prospective student needs to submit ACT or SAT scores or take the Accuplacer placement test for math and English at the GBC Placement Office by April 1.

Admission Criteria
The Career and Technical Education Department will admit a limited number of students to the CTE Department area programs each year. Admission is on a competitive basis. When there are more qualified applicants than there are available spaces in the programs, preference will be given to those with the highest qualifications. Meeting minimum application criteria does not guarantee admission to the program. Those students who meet or exceed the minimum criteria but who are not admitted may reapply in future years. Please check with the program advisor for more information.

Associate of Applied Science Requirements Summary

	Credits
GBC Orientation	0.5

INT 100

English/Communications 6
   ENG 107, 108, 101, 102

Mathematics 3
   MATH 116, 120, 126 or higher (Includes STAT 152)

Science 3
   At least 3 credits from: ANTH 102, AGSC 100, AST 101,
   BIOL 100, BIOL 190, CHEM 100, 121, ENV 100,
   GEOG 103, GEOL 101, 132, PHYS 100, 107, 151,
   NRES 150, NUTR 121

Social Science 6
   3 credits: PSC 101 (U.S. and Nevada Constitutions
   requirement) or substitute HIST 101 and 102

   3 credits: BUS 110, HMS 200, MGT 283, PSY 208
   (Human Relations)

Humanities and Fine Arts 3
   3 credits from: ART 100, 101, 160, 107, 260, 261, ENG 203,
   223, FIS 100, FREN 111, 112, HIST 105, 106, HUM 101,
   MUS 101, 121, 125, PHIL 102, 129; SPAN 111, 112, 211,
   THTR 100, 105

Technology 3
   3 credits from: CS 135, EDU 214, DT 101, EIT 233,
   ELM 120, GIS 109, GRC 119, IS 101, IT 210,
   WELD 110, 211, 221

Electives
   A minimum of 60 total credits is required. Most programs
   require more. See an advisor to select appropriate courses.

Certificate of Achievement

The one-year Certificate Program is an abbreviated form of the two-year Associate of Applied Science degree. Most of the Certificate Program requirements include six semester hours of English/Communications (minimum requirement is three credits by Board of Regents policy), a course in human relations, demonstration of computation skills, and a 2.0 minimum grade-point average. All other requirements are noted in specific program maps.

If you complete a certificate of achievement, you may also choose to complete an AAS. The following General Education Requirements (see also page 55) must be fulfilled.

Applied Science Certificate of Achievement Requirements Summary

	Credits
GBC Orientation (select programs)	0.5

English/Communications 3

Mathematics 3
   BUS 110 (if taken as a 3-credit course) MATH 116, 120,
   126 or higher

Minimum Certificate Requirements 23
(See program for specific requirements)

Human Relations 1-3

Suggested Course Sequence
The course sequence outlined for each degree is simply a suggestion that may not be appropriate for all students. For example, some students will have to take from one to four developmental courses before they are prepared to take some of the college-level courses. Many students will need to take fewer courses each semester due to other obligations in their lives. Full-time status is 12 credits per semester, but many programs provide students with the flexibility of taking fewer credits (in order to have a successful academic experience). Meeting with an advisor is crucial to establishing the best course sequence for each student.

Computer Technologies
Associate of Applied Science

Mission Statement

The Computer Technologies Department implements Great Basin College's mission by delivering computer technology education to a diverse, far-flung, and changing population. To focus curriculum on current and future needs and employment opportunities, the department develops courses and programs by collaborating with students, the community we serve, industry, and other GBC departments.

We believe our responsibility spans all levels from developmental to expert. We offer initial training, retraining, job enhancement, national certifications, and an Associate of Applied Science with several areas of emphasis. We believe that technical education requires good communication, mathematics, science, and social foundation. Our certificates and degrees require courses in English, mathematics, science, social science, and human relations.

The department believes that in order for all students to become more productive citizens, they need to understand that today most computers function within the context of technically networked environments. The department offers all GBC degree-seeking students several core technology choices to increase employment success and to enhance life skills. The Bachelor of Applied Science program offers emphases in Digital Information Technology and Graphic Communications (pending approval). For students continuing beyond the associate's degree level, several upper-division courses offer additional skills.

The department believes that through this rigorous mission statement and implementation thereof, we contribute significantly to economic growth and better lives in rural Nevada.

Degree Outcomes

The recipient will be able to:

- Use computers efficiently and ethically in the workplace.

- Solve business-oriented problems using MS Office products.

- Efficiently work with a PC operating system.

- Add interactivity and efficiency to completed activities using programming concepts.

- Demonstrate completion of a course of study in a CT emphasis area of choice.

Computer Technologies
Associate of Applied Science—GIS Emphasis

Student Learning Outcomes

The Geographic Information Systems (GIS) Emphasis provides an opportunity to develop skills in computer technical applications to enhance job placement and continued career growth. Often employees must integrate MS Office productivity software, graphic packages, CAD software, and GIS when analyzing information to create reports or presentations. Some jobs available for graduates include Technical Applications Specialist, GIS Technician, and Cartographic Technician.

Graduates of this degree program will have the knowledge and skills to:

- Use a variety of computer applications for problem solving in technical fields.
- Build and link relational database tables in technical software.
- Transfer and link data from different applications (AutoCAD, GIS, MS Office, and more).
- Research the use of different operating systems for running technical applications in a networked environment.
- Use the most popular technical software for the desktop (now AutoCAD and ArcGIS) to create aesthetically pleasing, standardized technical visual presentations.
- Use basic customization features of technical software.

General Education Requirements — Credits

- ☐ GBC Orientation 0.5
- ☐ English/Communications 6
    ENG 101 and ENG 102 (recommended)
- ☐ Mathematics (MATH 126 required) 3
- ☐ Science (GEOG 103 or ENV 100 recommended) 3
- ☐ Social Science (PSC 101 recommended) 3
- ☐ Human Relations (MGT 283 recommended) 3
- ☐ Humanities and Fine Arts
    (ART 100 or ART 101 recommended) 3
- ☐ Technology (GIS 109 recommended) 3

List of courses fulfilling general education requirements is on page 55, but select with advisor.

Core Courses — Credits

	CIT	211	Microsoft Networking I, or	
☐	COT	204	Using Windows	3
☐	CS	135	Computer Science I	3
☐	IS	201	Computer Applications	3

GIS Emphasis Courses — Credits

☐	CADD	121	CAD for Land Surveyors	3
☐	CIT	180	Database Concepts & SQL (Pending Approval)	3
☐	ENV	100	Humans and the Environment	3
☐	GIS	110	Principles of Cartography	3
☐	GIS	205	GIS Applications	3
☐	GIS	250	GIS Database	3
☐	GIS	290	Portfolios in GIS	3
☐	GIS		Electives to be approved by advisor	6

Select from GIS 111, GIS 212, GIS 270 or other classes with instructor's approval.

SUGGESTED COURSE SEQUENCE***
AAS—Computer Technologies
GIS Emphasis

FALL—1st Semester		Credits	✔
INT	100	0.5	☐
ENG	101	3	☐
ENV	100	3	☐
GIS	109	3	☐
IS	201	3	☐
MATH	126	3	☐
TOTAL		**15.5**	

SPRING—2nd Semester		Credits	✔
CS	135	3	☐
COT 204 or CIT 211		3	☐
GEOG	103	3	☐
GIS	110	3	☐
GIS	205	3	☐
TOTAL		**15**	

FALL—3rd Semester		Credits	✔
ART	101	3	☐
CIT	180 (Pending Approval)	3	☐
CIT	129	3	☐
GIS	250	3	☐
GIS ELECTIVE**		3	☐
TOTAL		**15**	

SPRING—4th Semester		Credits	✔
ENG	108 or ENG 102	3	☐
GIS ELECTIVE**		3	☐
GIS	290	3	☐
MGT	283	3	☐
PSC	101	3	☐
TOTAL		**15**	

*Select from page 55. **Select with advisor. **Minimum Credits: 60.5**
***See page 60.