

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.)
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 resume.
 - 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 adviser for more information.

Associate of Applied Science Requirements Summary

	Credits
GBC Orientation..... INT 100	0.5
English/Communications..... ENG 107, 108, 101, 102	6
Mathematics..... MATH 116, 120, 126 or higher (Includes STAT 152)	3
Science..... At least 3 credits from: ANTH 102, ANSC 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	3
Social Science..... 3 credits: PSC 101 (U.S. and Nevada Constitutions requirement) or substitute HIST 101 and 102 3 credits: BUS 110B, HMS 200, MGT 283, PSY 208 (Human Relations)	6
Humanities and Fine Arts..... 3 credits from: ART 100, 101, 160, 170, 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	3
Technology..... 3 credits from: EDU 214, DT 101B, EIT 233, ELM 120, GIS 109, GRC 119, IS 101, IT 210B, WELD 110B, 211, 221	3
Electives A minimum of 60 total credits is required. Most programs require more. See an adviser 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 57) must be fulfilled.

Applied Science Certificate of Achievement Requirements Summary

	Credits
GBC Orientation (recommended).....	(0.5)
English/Communications.....	3-6
Mathematics..... TA 108B, BUS 110B (if taken as a 3-credit course) MATH 116, 120, 126 or higher	3
Minimum Certificate Requirements..... (See program for specific requirements)	23
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 adviser is crucial to establishing the best course sequence for each student.

Welding Technology

Associate of Applied Science

Student Learning Outcomes

Graduates of the Welding Technology Associate of Applied Science Degree Program will have the knowledge and skills to:

- Make satisfactory welds in all positions using the following welding processes:
 - Shielded Metal Arc Welding (SMAW)
 - Gas Metal Arc Welding (GMAW)
 - Flux Cored Arc Welding (FCAW)
 - Gas Tungsten Arc Welding (GTAW)

- Make satisfactory cuts with the following processes:
 - Oxygen Fuel Cutting (OFC)
 - Plasma Arc Cutting (PAC)
 - Air Carbon Arc Cutting (ACC)
- Interpret welding blueprints and welding symbols.
- Perform pipe layouts.
- Utilize basic welding metallurgy.

Formal admission to this program is required. Refer to page 97 for an outline of admission standards. Welding is a necessary skill for today's technicians and field mechanics as well as for those who want to develop a career in metal fabrication. The College's Welding Department has become the center for welding technologies in Northeastern Nevada. With highly qualified instructors, GBC provides the opportunity to learn the standard methods of Shielded Metal Arc Welding (SMAW), Flux Cored Arc Welding (FCAW), Gas Metal Arc Welding (GMAW), and Gas Tungsten Arc Welding (GTAW), as well as Oxyfuel, Air Carbon Arc, and Plasma Arc Cutting. For more information, call 775.753.2175.

Great Basin College has Certified Welding Inspectors on staff so students can earn an AWS certification.

General Education Requirements	Credits
<input type="checkbox"/> GBC Orientation.	0.5
<input type="checkbox"/> English/Communications.	6
<input type="checkbox"/> Mathematics	3
MATH 116, MATH 120 or higher or STAT 152	
<input type="checkbox"/> Science	3
CHEM 100, ENV 100, PHYS 100, or PHYS 107 recommended	
<input type="checkbox"/> Social Science	3
<input type="checkbox"/> Human Relations.	3
<input type="checkbox"/> Humanities and Fine Arts.	3
<input type="checkbox"/> Technology.	3
WELD 110B	

List of courses fulfilling general education requirements is on page 57.

Emphasis Courses	Credits
<input type="checkbox"/> WELD 105B Drawing and Weld Symbol Interpretation.	3
<input type="checkbox"/> WELD 110B* Basic Arc Welding Principles and Practices.	5.5

<input type="checkbox"/> WELD 150B Metallurgy Fundamentals for Welding. . .	3
<input type="checkbox"/> WELD 160B Welding Design/Layout and Pipefitting.	5.5
<input type="checkbox"/> WELD 210B Advanced Welding Principles and Practices.	5.5
<input type="checkbox"/> WELD 220B Gas Metal (GMAW) and Flux Cored Arc Welding (FCAW).	11
<input type="checkbox"/> WELD 224B Welding Projects.	4
<input type="checkbox"/> WELD 240B Gas Tungsten Arc Welding (GTAW).	8
<input type="checkbox"/> WELD 260B Pipe Welding.	8

SUGGESTED COURSE SEQUENCE*** AAS— Welding Technology

FALL—1st Semester	Credits	✓
INT 100	0.5	<input type="checkbox"/>
ENGLISH**	3	<input type="checkbox"/>
HUMAN RELATIONS*	3	<input type="checkbox"/>
MATH 116, MATH 120 or higher	3	<input type="checkbox"/>
HUMANITIES*	3	<input type="checkbox"/>
SOCIAL SCIENCE	3	<input type="checkbox"/>
WELD 105B	3	<input type="checkbox"/>
WELD 110B	5.5	<input type="checkbox"/>
WELD 210B	5.5	<input type="checkbox"/>
WELD 260B	8	<input type="checkbox"/>
TOTAL	37.5	
SPRING—2nd Semester	Credits	✓
ENGLISH**	3	<input type="checkbox"/>
SCIENCE*	3	<input type="checkbox"/>
WELD 150B	3	<input type="checkbox"/>
WELD 160B	5.5	<input type="checkbox"/>
WELD 220B	11	<input type="checkbox"/>
WELD 224B	4	<input type="checkbox"/>
WELD 240B	8	<input type="checkbox"/>
TOTAL	37.5	

Select from page 57.
***See page 94.

**Select with adviser.

Minimum Credits: 75

This program follows a 48-week, non-traditional schedule. Classes are scheduled from August, 2010 through June, 2011.

*Students who have Tech Prep credits should contact their GBC adviser.