

# Programs of Instruction

## Catalog Under Which a Student may Graduate

The catalog in use at the time a student first enrolls and completes credit classes offered through Eastern Wyoming College determines the degree or certificate requirements for graduation. However, returning students who have a two-semester break, not including the Summer term, must meet the requirements of the catalog in use at the time of readmission.

Students changing their program of study from their initial enrollment are expected to fulfill graduation requirements under the catalog in effect at the time they begin classes for that program.

If courses originally required in the old catalog no longer exist, the College reserves the right to substitute one course for another in any program or degree. Refresher classes may be required for some skill courses.

## Second Associate Degree from EWC

1. Students who wish to do so may earn more than one degree at Eastern Wyoming College if the areas of concentration are different.
2. Students must consult an advisor when planning a degree. The advisor must approve the planned program of study for the additional degree.
3. Students must complete the degree requirements listed in the current year's catalog for the second degree.
4. A student may receive as many different degrees at graduation as he or she has earned at that point.
5. A maximum of 52 semester hours of credit from the first degree may be applied toward the second degree.
6. For each degree earned, a student must satisfy a 15-hour residency requirement.
7. Please review the Financial Aid Academic Progress Policy regarding second degrees.

## Expected Outcomes for EWC Graduates

Eastern Wyoming College expects that its graduates will have an educational foundation that prepares them for a complex and rapidly changing world. The curriculum offered will allow the development of general education competencies

necessary for participation in society as well as the development specialized knowledge necessary within a given discipline. Every EWC graduate will have demonstrated competencies in these general education areas:

- 1. Communication:**  
Graduates will be able to engage in the communication process effectively and responsibly through listening, speaking, and writing.
- 2. Quantitative:**  
Graduates will be able to solve problems through critical thinking involving analytical and quantitative reasoning.
- 3. Constitution:**  
Graduates will demonstrate knowledge of the U.S. Constitution.  
Graduates will demonstrate knowledge of the Wyoming Constitution.
- 4. Lab Science:**  
Graduates will demonstrate proficiency in the fundamental principles of the sciences, including the application of the scientific method to investigate the natural world.
- 5. Arts and Humanities:**  
Graduates will exhibit awareness of the complexity of the human experience through the study of the arts and humanities.
- 6. Social and Cultural Awareness:**  
Graduates will demonstrate understanding of the relationship between the individual and the world.

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## General Education Requirements

### General Transfer

The specific courses that fulfill each of the general transfer categories for the **Associate of Arts** and **Associate of Science Degree** are listed below. Courses that are permitted for the **Associate of Applied Science Degree** are also included and indicated with an asterisk. The process of assigning courses in each category is continually being updated. A class may only fulfill one requirement in the following General Education Categories. Students should contact their advisors for updated listings.

Category/Courses	Course Title	Hours
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#### Foundations

<b>COMMUNICATION 1</b>		
ENGL 1010	English I: Composition	3
*TECH 1005	Applied Technical Writing	3

\*Permitted for AAS Programs only

#### COMMUNICATION 2

BADM 1020	Business Communications	3
CO/M 2010	Public Speaking	3
ENGL 2020	Introduction to Literature	3

#### Mathematics (Quantitative)

*BADM 1005	Business Mathematics I	3
MATH 1000	Problem Solving	3
MATH 1100	Math for Elementary Teachers I	3
MATH 1400	Pre-Calculus Algebra	4
MATH 1405	Pre-Calculus Trigonometry	3
MATH 1450	Algebra and Trigonometry	5
*MATH 1515	Applied Technical Mathematics	3
MATH 2200	Calculus I	4
MATH 2350	Business Calculus	4
*VTTK 1751	Pharmaceutical Calculations	4

\*Permitted for AAS Programs only

#### Constitutional Requirements

HIST 1211	U.S. to 1865	3
HIST 1221	U.S. from 1865	3
HIST 1251	History of Wyoming	3
POLS 1000	American & Wyoming Government	3
*POLS 1050	Basics in United States and Wyoming Government	2

\*Permitted for AAS Programs only

### Lab Science I

AECL 1000	Agroecology	4
BIOL 1000	Principles of Biology	4
BIOL 1010	General Biology I	4
CHEM 1000	Introductory Chemistry	4
CHEM 1020	General Chemistry I	4
GEOL 1100	Physical Geology	4
GEOL 1470	Environmental Geology	4
PHYS 1110	General Physics I	4
ZOO 1500	Introduction to Human Anatomy & Physiology	4
*CSMO 1025	Hair Fundamentals	4
*VTTK 1625	Laboratory Analysis	1
*VTTK 1630	Veterinary Hematology	3
*VTTK 1755	Veterinary Parasitology	2
*VTTK 2610	Veterinary Infectious Diseases and Applied Diagnostics	4
*WELD 1755	Shielded Metal Arc Welding	5

\*Permitted for AAS Programs only

### Freshman Foundations

HMDV 1000	College Studies	1
or HMDV 1025	Orientation to Distance Learning	1
or HMDV 1500	Human Development: Empowerment	3
First Year Seminars (FYS)		TBD
AGRI 1000	Issues in Agriculture	1
VTTK 1000	Introduction to Veterinary Science	1

### Physical Education Activity

EQST 1725	Rodeo Rough Stock I	2
EQST 1740	Rodeo Timed Events	2
PEAC 1008	Lifetime Sports	1
PEAC 1012	Beginning Swimming	1
PEAC 1020	Fitness and Conditioning	1
PEAC 1032	Aerobic Cond. I/Fitness Center	1
PEAC 1040	Trap Shooting I	1
PEAC 1044	Trap, Skeet, and Sporting Clays	1
PEAC 1050	Beginning Tennis	1
PEAC 1252	Beginning Badminton	1
PEAC 1253	Beginning Bowling	1
PEAC 1255	Beginning Golf	1
PEAC 1257	Beginning Racquetball	1
PEAC 1271	Weight Loss Conditioning	1
PEAC 1273	Heavy Resistance Conditioning	1
PEAC 1281	Beginning Casting and Angling	1
PEAC 1305	Heavy Resistance Conditioning II	1
PEAC 2000	Wellness: PE Concepts/ Fitness Course	1

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PEAC 2011	Intermediate Swimming	1	*ENTR 1520	Creating a Business Plan	2
PEAT 2025	Rodeo Activities	1	*ENTR 2500	Small Business Operations Management	2
PEAT 2051	Varsity Golf	1			
PEAT 2062	Varsity Basketball	1	GEOG 1000	Intro to World Regional Geography	3
PEAT 2064	Varsity Volleyball	1			
<b>Arts &amp; Humanities</b>					
ART 1000	General Art: Studio	3	HIST 1110	Western Civilization I	3
ART 1005	Beginning Drawing	3	HIST 1120	Western Civilization II	3
ART 1110	Foundations: Two-dimensional	3	HIST 1290	History of the US West	3
			HIST 1320	World Civilization to 1450	3
ART 1120	Foundations: Three-dimensional	3	HIST 1330	World Civilization from 1330	3
ART 1130	Foundation: Color Theory	3	HIST 2290	North American Indians	3
ART 1179	Photoshop	3	INST 2350	Intro to Global Studies	3
ART 1310	Sculpture I	3	MKT 2100	Principles of Marketing	3
ART 2010	Art History I	3	MUSC 2015	Introduction to the Music of the World's Peoples	3
ART 2020	Art History II	3			
ART 2074	Art for the Elementary/Middle School Teacher	3	POLS 1200	Non-Western Political Cultures	3
ART 2210	Painting I	3			
ART 2410	Ceramics	3	PSYC 1000	General Psychology	3
CO/M 1030	Interpersonal Communication	3	RELI 1100	Introduction to Religion	3
ENGL 2425	Literatures in English I	3	SOC 1000	Sociological Principles	3
ENGL 2430	Literatures in English II	3	SOC 1100	Social Problems	3
ENGL 2435	Literatures in English III	3	SOSC 1100	Introduction to Religion	3
ENGL 2440	Literary Genres: Short Story	3	SOWK 2000	Introduction to Social Work	3
LIBS 2280	Literature for Children	3			
MUSC 1000	Introduction to Music	3	WMST 1080	Intro to Women's Studies	3
MUSC 1378	College Band	1			
MUSC 1390	Jazz Ensemble	1			
MUSC 1400	Collegiate Chorale	1			
MUSC 2018	Music for Elementary Classroom Teachers	3			
MUSC 2050	Music History Survey I	3			
MUSC 2055	Music History Survey II	3			
PHIL 1000	Introduction to Philosophy	3			
SOSC 2300	Ethics in Practice	3			
THEA 1000	Introduction to Theatre	3			
<b>Social &amp; Cultural Awareness</b>					
AGEC 1010	Agricultural Economics I	3			
AMST 2110	Cultural Diversity in America	3			
ANTH 1100	Intro to Physical Anthropology	3			
ANTH 1200	Intro to Cultural Anthropology	3			
CO/M 1040	Intro to Human Communication	3			
ECON 1010	Macroeconomics	3			
ECON 1020	Microeconomics	3			
*ENTR 1500	Successful Entrepreneurship	2			

\*Permitted for AAS Programs only

# Programs of Instruction

## A. Associate of Arts Degree

The Associate of Arts Degree will be awarded students in transfer programs who complete the following requirements:

1. Completion of the program requirements in which the student is enrolled.
2. Completion of a minimum of 60 semester hours in courses numbered 1000 or above with a cumulative grade point average of 2.00 or better.
3. No more than six hours in courses numbered 1490, 1990, 2490, or 2990 will apply toward the degree. In addition, no course offered under the Developmental Studies Department may be applied toward the degree.
4. Completion of at least 15 semester hours applicable towards graduation from Eastern Wyoming College.
5. Completion of the appropriate reading course or an appropriate score on the reading exam. See ACCUPLACER and ACT Course Placement Guide on pages 14-15.
6. Completion of the college-wide exit assessment and the outcomes assessment requirements specific to the major.
7. File graduation application with the Student Services Office. The application is due mid-November for December graduation or mid-March for May or July graduation.
8. Students who have an incomplete and plan to graduate have one semester or the Summer session (whichever comes first) in which to finish the incomplete. If they do not finish the incomplete, the graduation date moves to the semester in which they finish the incomplete. A new graduation application must be submitted to the Student Services Office.
9. A grade of either "S" or "C" or better must be received in each course used to satisfy the general transfer requirements below. A grade of "S" may be earned through institutional challenge, CLEP, or advanced placement examinations.
10. All students are required to meet the constitutional requirement by taking one of the following: HIST 1211 U.S. to 1865, HIST 1221 U.S. from 1865, HIST 1251 History of Wyoming, POLS 1000 American & Wyoming Government.

The process of assigning specific courses that fulfill each of the general transfer categories listed below is continually being updated. Students are advised to contact their advisors for updated listings to ensure meeting the appropriate requirements for graduation or transfer.

Minimum Hours Required	General Transfer Categories
1	Freshman Foundations
3	Communication 1
3	Communication 2
3	Mathematics (Quantitative)
4	Lab Science
3	Arts & Humanities
3	Social & Cultural Awareness
3	Constitutional Requirements
<u>1</u>	Physical Education Activity
24	

# Programs of Instruction

## B. Associate of Science Degree

The Associate of Science Degree will be awarded students in transfer programs who complete the following requirements:

1. Completion of the program requirements in which the student is enrolled.
2. Completion of a minimum of 60 semester hours in courses numbered 1000 or above with a cumulative grade point average of 2.00 or better.
3. No more than six hours in courses numbered 1490, 1990, 2490, or 2990 will apply toward the degree. In addition, no course offered under the Developmental Studies Department may be applied toward the degree.
4. Completion of at least 15 semester hours applicable towards graduation from Eastern Wyoming College.
5. Completion of the appropriate reading course or an appropriate score on the reading exam. See ACCUPLACER and ACT Course Placement Guide on pages 14-15.
6. Completion of the college-wide exit assessment and the outcomes assessment requirements specific to the major.
7. File graduation application with the Student Services Office. The application is due mid-November for December graduation or mid-March for May or July graduation.
8. Students who have an incomplete and plan to graduate have one semester or the Summer session (whichever comes first) in which to finish the incomplete. If they do not finish the incomplete, the graduation date moves to the semester in which they finish the incomplete. A new graduation application must be submitted to the Student Services Office.
9. A grade of either "S" or "C" or better must be received in each course used to satisfy the general transfer requirements below. A grade of "S" may be earned through institutional challenge, CLEP, or advanced placement examinations.
10. All students are required to meet the constitutional requirement by taking one of the following: HIST 1211 U.S. to 1865, HIST 1221 U.S. from 1865, HIST 1251 History of Wyoming, POLS 1000 American & Wyoming Government.

The process of assigning specific courses that fulfill each of the general transfer categories listed below is continually being updated. Students are advised to contact their advisors for updated listings to ensure meeting the appropriate requirements for graduation or transfer.

Minimum Hours Required	General Transfer Categories
1	Freshman Foundations
3	Communication 1
3	Communication 2
3	Mathematics (Quantitative)
4	Lab Science
3	Arts & Humanities
3	Social & Cultural Awareness
3	Constitutional Requirements
<u>1</u>	Physical Education Activity
24	

# Programs of Instruction

## C. Associate of Applied Science Degree

The Associate of Applied Science Degree will be awarded students in technical programs who complete the following requirements:

1. Completion of the curriculum requirements and approved electives for the program in which the student is enrolled.
2. Completion of at least 15 semester hours applicable towards graduation from Eastern Wyoming College.
3. Completion of a minimum of 60 semester hours with a cumulative grade point average of 2.00 or better.
4. Students must complete all program requirements, including electives, with a grade of "C" or better.
5. Completion of the appropriate reading course or an appropriate score on the reading exam. See ACCUPLACER and ACT Course Placement Guide on pages 14-15.
6. File graduation application with the Student Services Office. The application is due mid-November for December graduation or mid-March for May or July graduation.
7. Students who have an incomplete and plan to graduate have one semester or the Summer session (whichever comes first) in which to finish the incomplete. If they do not finish the incomplete, the graduation date moves to the semester in which they finish the incomplete. A new graduation application must be submitted to the Student Services Office.
8. A grade of either "S" or "C" or better must be received in any course used to satisfy the general education requirements. A grade of "S" may be earned through institutional challenge, CLEP, or advanced placement examinations.
9. Completion of the college-wide exit assessment and the outcomes assessment requirements specific to the major.
10. All students are required to meet the constitutional requirement by taking one of the following: HIST 1211 U.S. to 1865, HIST 1221 U.S. from 1865, HIST 1251 History of Wyoming, POLS 1000 American & Wyoming Government, POLS 1050 Basics in United States and Wyoming Government.

Minimum Hours Required	General Transfer Categories
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1	Freshman Foundations
3	Communications 1
3	Mathematics (Quantitative)
2-3	*Constitutional Requirements
5-6	From within the following categories: Social & Cultural Awareness Arts & Humanities Lab Science Physical Education Activity

15 hours

\*Students must take POLS 1000, HIST 1211, HIST 1221, HIST 1251, or POLS 1050. Students should consult with their advisors concerning transferability.

# Programs of Instruction

## D. Certificate

Certificates will be awarded to students in certificate programs who complete the following requirements:

1. Completion of the curriculum requirements specified for the respective programs, with a cumulative grade point average of 2.00 or better.
2. Completion of the appropriate reading course or an appropriate score on the reading exam. See ACCUPLACER and ACT Course Placement Guide on pages 14-15.
3. File graduation application with the Student Services Office. The application is due mid-November for December graduation or mid-March for May or July graduation.
4. Students who have an incomplete and plan to graduate have one semester or the Summer session (whichever comes first) in which to finish the incomplete. If they do not finish the incomplete, the graduation date moves to the semester in which they finish the incomplete. A new certificate application must be submitted to the Student Services Office.
5. Completion of the outcomes assessment appropriate to the program.

## E. Distance Learning

Eastern Wyoming College offers complete Distance Learning Programs:

- Interdisciplinary Studies AA
- Interdisciplinary Studies AS
- Criminal Justice AA
- Business Administration AAS
- Early Childhood Education AA
- Elementary Education AA
- Child Development C
- Corrections C

The primary mode of delivery is internet. Please see the website, [ewc.wy.edu](http://ewc.wy.edu), for a complete listing of courses each semester. All previously listed degree requirements still pertain to distance degrees.

Veterans educational benefits may be adjusted when a student enrolls in all distance education courses.

## F. Self-Directed Studies

Self-Directed Studies classes are hands-on performance based courses in which there are no regularly scheduled meeting times. Each student is responsible for setting their own study schedule in

order to complete the required coursework in the allotted time.

While students are allowed to do their work when and where they like, all assignments are due on (or before) the final regular day of the semester. Students are encouraged to get to work early and be finished with the course as soon as possible. It's not realistic to think you can get all the work done in less than 5 weeks.

These classes include approximately 20 hands-on activities from the textbook - averaging out to about 3 exercises per week over 7-weeks. Coursework is submitted digitally through the EWC "LancerNet" learning management system.

For students wanting (or needing) individual assistance, the instructor will be available in the Community Training Center Computer Lab 5-days a week -- including extended evening hours on Tuesdays and Thursdays. Students are welcomed to use this lab for any coursework requiring network connectivity. Students should meet with the instructor the first week of the semester to outline their study plan.

## PROGRAMS OF INSTRUCTION

The following are suggested programs of instruction available at Eastern Wyoming College. Each program lists the degree offered; the various options, if any, within the program; the criteria for the degree; and program requirements.

Program electives are designated by asterisks (\*) and are generally listed immediately following suggested programs of instruction. In recognition that all student goals are not met with a single academic plan, the student, with his/her advisor's sign-off approval, may include substitute courses for those indicated by an asterisk. Students will be responsible to confer with their advisors in planning their schedules.

The suggested courses to fulfill the general education requirements are incorporated into each program of study. Students should consult with their advisors to ensure that all general education requirements are satisfied.

# Programs of Instruction

## ACCOUNTING

<b>DEGREE:</b>	<b>CREDITS</b>
ASSOCIATE OF SCIENCE	60

The suggested accounting/business administrative program allows the student to earn an Associate of Science Degree while completing the first two years of college work toward a bachelor's degree. Those majoring in accounting, marketing, management, finance or other specific areas of business generally take the same courses during the first two years.

Students must complete all program requirements, including approved electives, with a "C" or better.

### FRESHMAN YEAR

Fall Semester		Credit
ACCT 1010	Principles of Accounting I	3
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
	Constitutional Requirements	3
MATH 1400	Pre-Calculus Algebra	4
<b>Total</b>		<b>14</b>

Spring Semester		Credit
ACCT 1020	Principles of Accounting II	3
STAT 2050	Fundamentals of Statistics	4
	Arts & Humanities	3
	Physical Education Activity	1
	Lab Science	4
<b>Total</b>		<b>15</b>

### SOPHOMORE YEAR

Fall Semester		Credit
ECON 1010	Macroeconomics	3
MATH 2350	Business Calculus	4
CO/M 2010	Public Speaking	3
or ENGL 2020	Introduction to Literature	
ACCT 2450	Cost Accounting	3
MKT 2100	Principles of Marketing	3
<b>Total</b>		<b>16</b>

Spring Semester		Credit
ECON 1020	Microeconomics	3
BADM 2010	Business Law I	3
MATH 2355	Mathematical Applications for Business	4
MGT 2100	Principles of Management	3
	*Approved Elective	2
	Outcomes Assessment:	
	Departmental Exam and Core Competency Evaluation	
<b>Total</b>		<b>15</b>

## AGRICULTURE

<b>DEGREE:</b>	<b>CREDITS</b>
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ASSOCIATE OF SCIENCE –	
AGRI BUSINESS AND SCIENCES	60
RANGELAND ECOLOGY AND	
WATERSHED MANAGEMENT	61

ASSOCIATE OF APPLIED SCIENCE –	
FARM AND RANCH MANAGEMENT	60-63

CERTIFICATE –	
BEEF PRODUCTION	32

### FARM AND RANCH MANAGEMENT

The Associate of Applied Science Degree in Farm and Ranch Management provides the basic subject matter and training for successful students to compete for employment.

Students must complete all program requirements, including approved electives, with a "C" or better.

### FRESHMAN YEAR

Fall Semester		Credit
AGRI 1010	Computers: Agriculture	3-4
or CMAP 1765	Spreadsheet Application II: Microsoft Excel	
and CMAP 1800	Database Applications I: Access	
ANSC 1010	Livestock Production I	4
or Lab Science		
AGRI 1000	Issues in Agriculture	1
MATH 1000	Problem Solving	3
or MATH 1515	Applied Technical Math	
TECH 1005	Applied Technical Writing	3
or ENGL 1010	English I: Composition	
<b>Total</b>		<b>14-15</b>

Spring Semester		Credit
AGEC 2010	Farm-Ranch Business Records	3
AGTK 1910	Equipment Maintenance and Repair	2
REWM 2000	Principles of Range Mgmt	3
ANSC 1010	Livestock Production I	4
or Lab Science		
AGEC 1970	Agriculture Internship	2
	*Approved Electives	3
<b>Total</b>		<b>17</b>

\*Approved Electives: Any course at the 1000 or above level.



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## SOPHOMORE YEAR

Fall Semester		Credit
AGEC 1010	Agricultural Economics	3
AGEC 2020	Farm & Ranch Business Management	3
AGEC 2350	Agricultural Commodities in Marketing	2
ANSC 2030	Principles of Livestock Feeding	4-3
or CROP 2200	Forage Crops	
	*Approved Electives	3-4
<b>Total</b>		<b>14-16</b>

Spring Semester		Credit
AGEC 2150	Agri-Business Finance	3
ANSC 1550	Livestock Health	
or SOIL 2200	Applied Soils	3
	Constitutional Requirement	3
AGEC 2395	AG Capstone Project	2
	*Approved Electives	4
<b>Total</b>		<b>15</b>

### \*Approved Agricultural Electives:

AGEC 1200	Economics & Management of Agricultural Equipment	2
AGEC 2300	Agricultural Marketing	2
AGRI 2000	Agriculture Chemicals	2
AGTK 1810	Beginning Hydraulics	3
ANSC 1035	Horse Production	3
ANSC 1070	Beginning Livestock Fitting and Showing	1
ANSC 1100	Management of Reproduction	4
ANSC 1210	Beginning Livestock Judging I	2
ANSC 1550	Livestock Health	3
ANSC 2110	Beef Production and Management	3
ANSC 2900	Nutrition in Veterinary Medicine	3
CROP 1150	Pesticide Safety and Application	3
CROP 2200	Forage Crop Science	3
ELTR 1515	Electrical Concepts	2
EQST 1570	Horseshoeing I	1
EQST 1580	Horseshoeing II	1
EQST 1725	Rodeo Rough Stock I	2
or EQST 1740	Rodeo Timed Events I	2
MCHT 1500	General Machine Shop	2
or MCHT 1610	Machine Tool Technology I	2
REWM 2500	Rangeland Plant Identification	2
SOIL 2111	Introduction to Precision Agriculture	3
SOIL 2200	Applied Soils	3
SOIL 2300	Soil Science & Fertilizer Technology	2
WELD 1700	General Welding	3

## CERTIFICATE-BEEF PRODUCTION

The Beef Production Certificate program is an intensive curriculum designed to train the student for an entry level management position in the Production Livestock Industry. The program emphasizes hands-on learning through labs and practicum experience. New technologies used include: computer assisted ration formulation and record keeping, ultrasound equipment, software for cowherd management and farm management, and GPS.

Students must complete all program requirements with a "C" grade or better.

## FRESHMAN YEAR

Fall Semester		Credit
AECL 1000	Agroecology	4
or BIOL 1000	Principles of Biology	
or BIOL 1010	General Biology	
AGRI 1010	Computers: Agriculture	3
ANSC 1210	Beg. Livestock Judging	2
ANSC 2030	Principles of Livestock Feeding	4
ANSC 2110	Beef Production and Management	3
AGRI 1000	Issues in Agriculture	1
<b>Total</b>		<b>17</b>

Spring Semester		Credit
AGEC 1970	Ag Internship	2
AGEC 2010	Farm-Ranch Business Records	3
ANSC 1550	Livestock Health	3
ANSC 1100	Mgmt of Reproduction	4
REWM 2000	Princ. of Range Mgmt Written Exam (Outcomes Assessment)	3
<b>Total</b>		<b>15</b>

### Course substitutions with advisor approval:

AGEC 2020	Farm-Ranch Business Management	3
AGEC 2150	Agri-Business Finance	3
AGEC 2300	Agricultural Marketing	2
AGEC 2350	Agricultural Commodities in Marketing	2
ANSC 1010	Livestock Production I	4
CROP 2200	Forage Crop Science	3

For more information about this certificate program, links to occupational information, estimated program cost, normal time for program completion, median debt at program completion (if available), please visit EWC's website at: <http://ewc.wy.edu/future-students/financial-aid/career/>.

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## AGRI BUSINESS AND SCIENCES

This degree will prepare students who plan to transfer to a four-year college or university. The courses have been designed to transfer to the University of Wyoming College of Agriculture. Other colleges or universities may have other requirements and students should work with their EWC advisors to plan for other college requirements. This degree presents the student with four options: a General Agriculture option for those that are not sure in what specific area in agriculture they would like to major, an Agricultural Business option, an Agroecology/ Agronomy option, and an Animal Science option.

Students must complete all program requirements, including approved electives, with a "C" or better.

### FRESHMAN YEAR

Fall Semester		Credit
ENGL 1010	English I: Composition	3
MATH 1400	Pre-Calculus Algebra	4
AGRI 1000	Issue in Agriculture	1
AECL 1000	Agroecology	4
AGRI 1010	Computers: Agriculture	3
<b>Total 15</b>		

Spring Semester		Credit
BIOL 1010	General Biology I	4
	Communication 2	3
	Physical Education Activity	1
	*Approved Electives	7
<b>Total 15</b>		

### SOPHOMORE YEAR

Fall Semester		Credit
AGEC 1010	Agricultural Economics	3
	Constitutional Requirements	3
	*Approved Electives	9
<b>Total 15</b>		

Spring Semester		Credit
AGEC 2395	Ag Capstone Project	2
STAT 2050	Fundamentals of Statistics	4
	Arts & Humanities	3
	*Approved Electives	6
<b>Total 15</b>		

## GENERAL AGRICULTURE OPTION

Students pursuing the General Ag option must take an additional **22 credit hours** of approved Ag electives. Encouraged are electives with the following prefixes: AGECE, AGRI, AGTK, ANSC, CROP, ELTR, EQST, MCHT, REWM, and WELD. This option is for students who are not sure what area they would like to specialize in and would like basic training in a number of agricultural subjects. It is recommended for training for professions which involve a broad knowledge of agriculture—operators and managers of general farms, county agricultural agents, agricultural writers, and many other types of commercial agricultural positions.

## AGRICULTURAL BUSINESS OPTION

Students pursuing the Ag Business option must take the following courses as electives:

ACCT 1010	Principles of Accounting I	3
ACCT 1020	Principles of Accounting II	3
ECON 1020	Microeconomics	3
MATH 2350	Business Calculus	4
<b>Total 13</b>		

Students must take an additional **9 credit hours** of approved Ag electives. Encouraged are electives with the following prefixes: AGECE, ANSC, CROP, and REWM. This option is designed to provide advanced training for individuals with a desire to broaden their scope of career opportunities with marketing firms, agricultural supply installations, equipment and fertilizer companies, and other businesses serving agriculture.

## AGROECOLOGY/AGRONOMY OPTION

Students pursuing the Agroecology/ Agronomy option must take the following courses as electives:

SOIL 2200	Applied Soils	3
CHEM 1000	Introductory Chemistry	4
CHEM 2300	Introductory Organic Chemistry	4
<b>Total 11</b>		

Students must take an additional **11 credit hours** of approved Ag electives. Encouraged are electives with the following prefixes: AGECE, AGRI, AGTK, ANSC, CROP, ELTR, MCHT, REWM, and WELD. This option is designed for students that are interested in further study dealing with crops and agronomy. Career opportunities include equipment and fertilizer companies, seed and chemical companies, and other companies dealing with the crop areas of agriculture.

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## ANIMAL SCIENCE OPTION

Students pursuing the Animal Science option must take the following courses as electives:

ANSC 1010	Livestock Production I	4
CHEM 1000	Introductory Chemistry	4
		Total 8

Students must take an additional **14 credit hours** of approved Ag electives. Encouraged are electives with the following prefixes: AGECE, AGRI, AGTK, ANSC, CROP, ELTR, EQST, MCHT, REWM, and WELD. This option is designed for students interested in career opportunities in agriculture that involve livestock, such as feed and supplement dealers, veterinarians, livestock feeding operations, and ranches.

### Additional requirements/electives for Animal Science majors choosing the Production Option at the University of Wyoming:

AGEC 2020	Farm-Ranch Business Management	3
ANSC 2030	Principles of Livestock Feeding	4
BIOL 2020	General Biology II	4
ECON 1020	Microeconomics	3
REWM 2000	Principles of Range Management	3

### \*Approved Agriculture Electives

AGEC 1200	Economics & Management of Agricultural Equipment	2
AGEC 1510	Farm/Ranch Application & Review of Management	3
AGEC 1970	Ag Internship	2
AGEC 2010	Farm-Ranch Business Records	3
AGEC 2150	Agri-Business Finance	3
AGEC 2020	Farm-Ranch Business Management	3
AGEC 2300	Agricultural Marketing	2
AGEC 2350	Agricultural Commodities in Marketing	2
AGRI 2000	Agricultural Chemicals	2
AGTK 1810	Beginning Hydraulics	3
AGTK 1910	Equipment Maintenance and Repair	2
ANSC 1010	Livestock Production I	4
ANSC 1035	Horse Production	3
ANSC 1070	Beginning Livestock Fitting and Showing	1
ANSC 1100	Management of Reproduction	4
ANSC 1210	Beginning Livestock Judging I	2
ANSC 1220	Techniques of Livestock Judging II	1

ANSC 1550	Livestock Health	3
ANSC 2030	Principles of Livestock Feeding	4
ANSC 2110	Beef Production and Management	3
ANSC 2230	Advanced Techniques of Livestock Judging III	1
ANSC 2240	Advanced Techniques of Livestock Judging IV	1
ANSC 2615	Anatomy & Physiology of Domestic Animals I/II	3
ANSC 2900	Nutrition in Veterinary Medicine	3
CHEM 2300	Introductory Organic Chemistry	4
CROP 1150	Pesticide Safety and Application	3
CROP 2200	Forage Crop Science	3
ECON 1020	Microeconomics	3
ELTR 1515	Electrical Concepts	2
ENTR 1500	Successful Entrepreneurship	2
EQST 1570	Horseshoeing I	1
EQST 1580	Horseshoeing II	1
EQST 1725	Rodeo Rough Stock I	2
EQST 1740	Rodeo Timed Events I	2
MCHT 1500	General Machine Shop	2
MCHT 1610	Machine Tool Technology I	2
REWM 2000	Principles of Range Management	3
REWM 2500	Rangeland Plant Identification	2
SOIL 2111	Introduction to Precision Agriculture	3
SOIL 2300	Soil Science and Fertilizer Technology	2
WELD 1700	General Welding	3

## RANGELAND ECOLOGY AND WATERSHED MANAGEMENT

Rangeland is a fundamental, renewable natural resource. Throughout the western U.S., it offers a wide-range of opportunities for the multiple uses of livestock and wildlife grazing, recreation, water production and natural beauty. The rangeland ecology and watershed management curriculum is designed for students wishing to study ecology, utilization and management of rangelands and wildland watersheds, and related resources including forestry, recreation, wildlife management, soil science, botany and zoology. The curriculum is designed so that students can transfer to four-year institutions and prepare for careers in natural resource management as Range

## Programs of Instruction

Conservationists, Soil Conservationists, and Range or Forest Hydrologists.

Students must complete all program requirements, including approved electives, with a “C” or better.

### FRESHMAN YEAR

Fall Semester		Credit
BIOL 1010	General Biology I	4
CHEM 1000	Introductory Chemistry	4
ENGL 1010	English I: Composition	3
MATH 1400	Pre-Calculus Algebra	4
	Freshman Foundations	1
<b>Total</b>		<b>16</b>

Spring Semester		Credit
REWM 2000	Principles of Range Management	3
	Constitutional Requirements	3
BIOL 2020	General Biology II	4
	Arts & Humanities	3
	Physical Education Activity	1
<b>Total</b>		<b>14</b>

### SOPHOMORE YEAR

Fall Semester		Credit
AECL 1000	Agroecology	4
AGEC 1010	Agricultural Economics I	3
ZOO 2450	Principles of Fish and Wildlife Management	3
	Social & Cultural Awareness	3
AGRI 1010	Computers: Agriculture	3
<b>Total</b>		<b>16</b>

Spring Semester		Credit
CO/M 2010	Public Speaking	3
STAT 2050	Fundamentals of Statistics	4
RNEW 2100	Forest Management	3
SOIL 2200	Applied Soils	3
AGEC 2395	AG Capstone Project (Outcomes Assessment)	2
<b>Total</b>		<b>15</b>

## CERTIFICATE - AQUACULTURE TECHNICIAN

<b>DEGREE:</b>	<b>CREDITS</b>
CERTIFICATE	12

This program will enable a student to meet entry level requirements for employment as an aquaculture technician. Students completing the program will have a basic understanding of aquaculture production methods and fish management techniques. This program is offered only at the Wyoming Women’s Center in Lusk.

Students must complete all program requirements including approved electives with a “C” or better.

### FRESHMAN YEAR

Fall Semester		Credit
AQTK 1500	Introduction to Aquaculture	3
AQTK 1520	Aquaculture Systems	3
AQTK 1550	Fish Health Management	3
AQTK 1600	Hatchery Management	3
<b>Total</b>		<b>12</b>

Federal Financial Aid is not available for this certificate program.

### ART

<b>DEGREE:</b>	<b>CREDITS</b>
ASSOCIATE OF ARTS	60

The Associate of Arts in Art provides freshman and sophomore level courses required by most colleges for a Bachelor of Arts or a Bachelor of Fine Arts degree in the visual arts. This program is ideal for students interested in a career in the fine or applied arts. The outcomes assessment requirement for this program will be an exhibition of art completed during the student’s time in the program. This exhibition must be accompanied by an Artist’s Statement, a written explanation of the work on display.

Students must complete all program requirements, including approved electives, with a grade of “C” or better.

## Programs of Instruction

### FRESHMAN YEAR

Fall Semester		Credit
ART 1005	Beginning Drawing	3
ART 1110	Foundation: Two-Dimensional	3
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
	Constitutional Requirements	3
	Physical Education Activity	1
<b>Total</b>		<b>14</b>

Spring Semester		Credit
ART 1130	Foundation: Color Theory	3
ART 1310	Introduction to Sculpture	3
ENGL 2020	Introduction to Literature	3
	Lab Science	4
	*Art Elective	3
<b>Total</b>		<b>16</b>

### SOPHOMORE YEAR

Fall Semester		Credit
ART 1120	Foundations: Three-Dimensional	3
ART 2410	Ceramics I	3
ART 2010	Art History I	3
MATH 1000	Problem Solving	3
	**Approved Elective	3
<b>Total</b>		<b>15</b>

Spring Semester		Credit
ART 2210	Painting I	3
ART 2020	Art History II	3
	Social & Cultural Awareness	3
	*Art Elective	3
	**Approved Elective	3
	Outcomes Assessment: Exhibition and Artist Statement	3
<b>Total</b>		<b>15</b>

#### \*Art Electives:

ART 1179	Adobe Photoshop I	3
ART 1250	Water Based Media I	3
ART 2005	Drawing II	3
ART 2145	Digital Photography	3
ART 2220	Painting II	3
ART 2420	Ceramics II	3

#### \*\*Approved Electives:

CO/M 2010	Public Speaking	3
ENGL 2440	Literary Genres: Short Story	3
INET 1590	Web Page Design	3
INET 1610	Dynamic Web Graphics: Flash Web Design	3
LIBS 2280	Introduction to Children's Literature	3
MUSC 1000	Introduction to Music	3

MUSC 2015	Introduction to the Music of the World's People	3
PHIL 1000	Introduction to Philosophy	3
RELI 1100 or SOSOC 1100	Introduction to Religion	3
SOC 1000	Sociological Principles	3
THEA 1000	Introduction to Theatre	3
WELD 1700	General Welding	3

### BIOLOGY

<b>DEGREE:</b>	<b>CREDITS</b>
ASSOCIATE OF SCIENCE	
BIOLOGY	60

### BIOLOGY

The Biology major is a transfer program designed for students interested in training in the biological sciences. It enables students to combine courses in biology, botany, zoology, and molecular biology to meet specific interests.

Students must complete all program requirements including approved electives with a "C" or better.

### FRESHMAN YEAR

Fall Semester		Credit
BIOL 1010	General Biology I	4
CHEM 1020	General Chemistry I	4
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
MATH 1400	Pre-Calculus Algebra	4
<b>Total</b>		<b>16</b>

Spring Semester		Credit
BIOL 2020	General Biology II	4
CHEM 1030	General Chemistry II	4
ENGL 2020	Introduction to Literature	3
MATH 1405	Pre-Calculus Trigonometry	3
<b>Total</b>		<b>14</b>

### SOPHOMORE YEAR

Fall Semester		Credit
CHEM 2300 or CHEM 2320	Introduction to Organic Chemistry Organic Chemistry I	4
MATH 2200	Calculus I	4
PHYS 1110	General Physics I	4
	Physical Education Activity	1
	Social & Cultural Awareness	3
<b>Total</b>		<b>16</b>

# Programs of Instruction

Spring Semester	Credit
MOLB 2220 Pathogenic Microbiology or CHEM 2340 Organic Chemistry II	4
STAT 2050 Fundamentals of Statistics	4
Arts & Humanities	3
Constitutional Requirements	3
Outcomes Assessment: Portfolio/ Rubrics Based Assessment	
<b>Total</b>	<b>14</b>

## BUSINESS ADMINISTRATION

DEGREES:	CREDITS
ASSOCIATE OF SCIENCE	60
ASSOCIATE OF APPLIED SCIENCE	60

## ASSOCIATE OF SCIENCE

The suggested program in accounting/business administration allows the student to earn an Associate of Science Degree while completing the first two years of college work toward a bachelor's degree. Those majoring in accounting, marketing, management, finance or other specific areas of business generally take the same courses during the first two years.

Students must complete all program requirements, including approved electives, with a "C" or better.

### FRESHMAN YEAR

Fall Semester	Credit
ACCT 1010 Principles of Accounting I	3
ENGL 1010 English I: Composition	3
Freshman Foundations	1
Constitutional Requirements	3
MATH 1400 Pre-Calculus Algebra	4
<b>Total</b>	<b>14</b>

Spring Semester	Credit
ACCT 1020 Principles of Accounting II	3
STAT 2050 Fundamentals of Statistics	4
Arts & Humanities	3
Physical Education Activity	1
Lab Science	4
<b>Total</b>	<b>15</b>

### SOPHOMORE YEAR

Fall Semester	Credit
ECON 1010 Macroeconomics	3
MATH 2350 Business Calculus	4
CO/M 2010 Public Speaking	3
or ENGL 2020 Introduction to Literature	
ACCT 2450 Cost Accounting	3
MKT 2100 Principles of Marketing	3
<b>Total</b>	<b>16</b>

Spring Semester	Credit
ECON 1020 Microeconomics	3
BADM 2010 Business Law I	3
MATH 2355 Mathematical Applications for Business	4
MGT 2100 Principles of Management	3
*Approved Electives	2
Outcomes Assessment: Departmental Exam and Core Competency Evaluation	
<b>Total</b>	<b>15</b>

<b>*Approved Electives:</b> Any course at the 1000 or above level.
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## ASSOCIATE OF APPLIED SCIENCE

The purpose of this flexible program is to provide an individual with entry level business skills. It emphasizes the accounting, office management, and computer areas. It is designed for the student who does not intend to transfer to another college to earn a bachelor's degree. In addition to fulfilling the requirements for the Associate of Applied Science Degree, a grade of "C" or better must be received in each of the required courses, including electives.

### FRESHMAN YEAR

Fall Semester	Credit
BADM 1030 Personal Finance	3
ACCT 1010 Principles of Accounting I	3
Freshman Foundations	1
Communication I	3
*Approved Electives	5
<b>Total</b>	<b>15</b>

Spring Semester	Credit
BADM 1000 Introduction to Business	3
BADM 1005 Business Mathematics I	3
COSC 1200 Computer Information Systems	3
Constitutional Requirement	3
*Approved Electives	3
<b>Total</b>	<b>15</b>

### SOPHOMORE YEAR

Fall Semester	Credit
BADM 1020 Business Communications	3
MKT 2100 Principles of Marketing	3
ECON 1010 Macroeconomics	3
*Approved Electives	6
<b>Total</b>	<b>15</b>

# Programs of Instruction

Spring Semester	Credit
ACCT 2110 Microcomputer Accounting I	2
BADM 2395 Business Office Capstone	3
MGT 2100 Principles of Management	3
*Approved Electives	7
Outcomes Assessment: Electronic Portfolio	
<b>Total</b>	<b>15</b>

**\*For Associate of Applied Science in Business (non-transfer)**—Seven (7) credits must be taken from approved business electives. Approved business electives may be from Accounting (ACCT), Business Administration (BADM), Management (MGT), Economics (ECON), Entrepreneurship (ENTR), Information Management (IMGT), Computer Science (COSC), Internet (INET), or Marketing (MKT). Five-six (5-6) credits must be taken from the following categories: Social & Cultural Awareness, Arts & Humanities, Lab Science, or Physical Education Activity. The balance of electives may be taken from any course 1000 or above.

## ASSOCIATE OF APPLIED SCIENCE (Distance)

The purpose of this flexible program is to provide an individual with entry level business skills. It emphasizes the accounting, office management, and computer areas. It is designed for the student who does not intend to transfer to another college to earn a bachelor's degree. In addition to fulfilling the requirements for the Associate of Applied Science Degree, a grade of "C" or better must be received in each of the required courses, including electives.

FRESHMAN YEAR	
Fall Semester	Credit
BADM 1030 Personal Finance	3
BADM 1005 Business Mathematics	3
MKT 2100 Principles of Marketing	3
Freshman Foundations	1
Communication I	3
*Approved Electives	2
<b>Total</b>	<b>15</b>

Spring Semester	Credit
ACCT 1010 Principles of Accounting I	3
BADM 1020 Business Communications	3
MGT 2100 Principles of Management	3
Constitutional Requirement	3
*Approved Electives	3
<b>Total</b>	<b>15</b>

SOPHOMORE YEAR	
Fall Semester	Credit
COSC 1200 Computer Information Systems	3
ECON 1010 Macroeconomics	3
*Approved Electives	9
<b>Total</b>	<b>15</b>

Spring Semester	Credit
ACCT 2110 Microcomputer Accounting I	2
BADM 1000 Introduction to Business	3
BADM 2395 Business Office Capstone	3
*Approved Electives	7
Outcomes Assessment: Electronic Portfolio	
<b>Total</b>	<b>15</b>

**\*For Associate of Applied Science in Business (non-transfer)**—Seven (7) credits must be taken from approved business electives. Approved business electives may be from Accounting (ACCT), Business Administration (BADM), Management (MGT), Economics (ECON), Entrepreneurship (ENTR), Information Management (IMGT), Computer Science (COSC), Internet (INET), or Marketing (MKT). Five-six (5-6) credits must be taken from the following categories: Social & Cultural Awareness, Arts & Humanities, Lab Science, or Physical Education Activity. The balance of electives may be taken from any course 1000 or above.

# Programs of Instruction

## BUSINESS EDUCATION

DEGREE	CREDITS
ASSOCIATE OF SCIENCE	63-64

This program offers many of the education courses required for business education majors as well as office and computer skills necessary for employment in a business office. The program is designed for the student wishing to transfer after two years to complete a teaching degree in business education at a four-year institution. Education programs vary greatly at four-year institutions, so students should consult the catalog of the college or university of their choice for information on the specific requirements of that institution.

Students must complete all program requirements, including approved electives, with a "C" or better.

### FRESHMAN YEAR

Fall Semester		Credit
ECON 1010	Macroeconomics	3
EDFD 2020	Foundations of Education	3
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
MATH 1400	Pre-Calculus Algebra	4
PSYC 1000	General Psychology	3
		<b>Total 17</b>

Spring Semester		Credit
EDFD 2100	Educational Psychology	3
ITEC 2360	Teaching with Technology	3
EDUC 2100	Practicum in Teaching	2-3
	Physical Education Activity	1
	Social & Cultural Awareness	3
	Arts & Humanities	3
		<b>Total 15-16</b>

### SOPHOMORE YEAR

Fall Semester		Credit
ACCT 1010	Principles of Accounting I	3
	Constitutional Requirements	3
MKT 2100	Principles of Marketing	3
	Lab Science	4
	*Approved Electives	4
		<b>Total 17</b>

Spring Semester		Credit
ACCT 1020	Principles of Accounting II	3
HLED 1221	Standard First Aid & Safety	2
BADM 2010	Business Law I	3
ENGL 2020	Introduction to Literature Arts & Humanities	3
	Outcomes Assessment: Portfolio	3
		<b>Total 14</b>

\*Approved Electives: Any course at the 1000 or above level.

## COMPUTER APPLICATIONS

DEGREE	CREDITS
COMPUTER APPLICATIONS CERTIFICATE	12

### CERTIFICATE - COMPUTER APPLICATIONS

This program will enable a student to meet the entry level requirements for jobs that require computer software uses. It will provide a solid background in current software uses and a foundation to learn new software programs. It will provide a solid foundation for beginning employment skills in computer software related employment.

Students must complete all program requirements, including approved electives, with a "C" or better.

	Freshman Foundations	1
CMAP 1500	Computer Keyboarding	1
CMAP 1610	Windows:	1
CMAP 1715	Word Processing: MSWord	2
CMAP 1765	Spreadsheet Applications I: MS Excel	2
CMAP 1900	Integrated Applications I: MS Office	2
CMAP 1915	MS Office-Advanced Concepts & Techniques	2
CMAP 2630	Presentation Graphics: PowerPoint	1
	Outcome Assessment: Portfolio	
		<b>Total 12</b>

Federal Financial Aid is not available for this certificate program.



# Programs of Instruction

## COMMUNICATION

DEGREE: CREDITS  
 ASSOCIATE OF ARTS 60-61

Because there are so many possible majors within the field of communication, individual programs of study should be tailored to the student's specific interest and to the requirements of the college or university to which the student plans to transfer. General programs that are available for concentration include Interpersonal Communication, Public Address, and Speech Pathology. Students who plan to become teachers should also consult the program for Secondary Education. While this is not a degree in journalism, students wishing to major in journalism should consult transfer programs and advisors for appropriate additional courses. The program shown below is particularly appropriate for liberal arts students planning to transfer to the University of Wyoming.

Students must complete all program requirements, including electives, with a grade of "C" or better.

### FRESHMAN YEAR

Fall Semester		Credit
ENGL 1010	English I: Composition	3
	Physical Education Activity	1
	Freshman Foundations	1
MATH 1000	Problem Solving	3-4
or MATH 1400	Pre-Calculus Algebra	
SOC 1000	Sociological Principles	3
	*Approved Elective	4
<b>Total</b>		<b>15-16</b>

Spring Semester		Credit
CO/M 1040	Intro to Human Communication	3
	Communication 2	3
	*Approved Elective	2
	Constitutional Requirements	3
	Lab Science	4
<b>Total</b>		<b>15</b>

### SOPHOMORE YEAR

Fall Semester		Credit
CO/M 1030	Interpersonal Communication	3
COSC	Computer Elective	3
or CMAP		
PSYC 1000	General Psychology	3
	*Approved Electives	6
<b>Total</b>		<b>15</b>

Spring Semester		Credit
	*Approved Electives	9
	Social & Cultural Awareness	3
	Arts & Humanities	3
SOSC 2395	Social Science Capstone Experience	
<b>Total</b>		<b>15</b>

#### \*Approved CO/M Electives:

ANTH 1100	Introduction to Physical Anthropology	3
ANTH 1200	Introduction to Cultural Anthropology	3
ART 2010	Art History I	3
ART 2020	Art History II	3
CO/M 2100	Reporting and Newswriting I	3
ENGL 2425	Literatures in English I	3
ENGL 2430	Literatures in English II	3
ENGL 2435	Literatures in English III	3
HIST 1110	Western Civilization I	3
HIST 1120	Western Civilization II	3
JOUR 1010	Publication Production I	3
MUSC 1000	Introduction to Music	3
MUSC 2015	Introduction to the Music of the World's Peoples	3
PHIL 1000	Introduction to Philosophy	3
PSYC 2330	Psychology of Adjustment	3
RELI 1100	Introduction to Religion	3
or SOSC 1100	Foreign Language	

NOTE: Students should work closely with their faculty advisor to develop a course plan that includes communication electives appropriate for transfer to desired institution.

# Programs of Instruction

## COSMETOLOGY

DEGREE	CREDITS
ASSOCIATE OF APPLIED SCIENCE	74+
CERTIFICATES –	
BARBERING TECHNICIAN	30
HAIR TECHNICIAN	30
NAIL TECHNICIAN	18
SKIN TECHNICIAN	22

### ASSOCIATE OF APPLIED SCIENCE- COSMETOLOGY

The cosmetology program is an 1800 clock hour program that covers curriculum set by Wyoming law and includes additional studies to broaden the scope of opportunities in the field. Graduates of this program should possess a salable skill and be prepared to take the national examination for entry into the field of cosmetology. In addition to fulfilling the requirements for the Associate of Applied Degree, a grade of C or better must be received in all courses taken in cosmetology.

Students must complete all program requirements, including approved electives, with a “C” or better.

#### FRESHMAN YEAR

Fall Semester		Credit
CSMO 1000	Intro to Nail Technology	3
CSMO 1005	Nail Technology Lab	5
CSMO 1550	General Cosmetology Science	3
CSMO 1025	Hair Fundamentals	4
CMAP 1900	Integrated Applications I: Microsoft Office	2
	Freshman Foundations	1
ENTR 1500	Successful Entrepreneurship	2
or ENTR 1520	Creating a Business Plan	
or ENTR 2500	Small Business Operation Mgmt	
<b>Total 20</b>		

Spring Semester		Credit
CSMO 1020	Intro to Hair Technology	3
CSMO 1035	Hair Fundamentals II	2
CSMO 1010	Intro to Skin Technology	3
CSMO 1015	Skin Technology Lab	1
CSMO 1030	Intro to Hair Technology II	2
CSMO 1505	Clinical Applications II	3
CSMO 1210	Esthetic Concepts I	2
BADM 1005	Business Mathematics I	3
or MATH 1515	Applied Technical Math	
<b>Total 19</b>		

## SOPHOMORE YEAR

Fall Semester		Credit
CSMO 1400	Cosmetology Lab I	3
CSMO 1405	Cosmetology Lab II	3
CSMO 1510	Clinical Applications III	6
CSMO 1515	Clinical Applications IV	6
<b>Total 18</b>		

Spring Semester		Credit
CSMO 1420	Cosmetology Lab V	3
CSMO 1520	Clinical Applications V	6
CSMO 1525	Clinical Applications VI	2-6
CSMO 1575	Post Cosmetology Assessment 1	
	Communication I	3
	Constitutional Requirements	2-3
<b>Total 17+</b>		

#### Optional Summer Semester Courses

CSMO 1425	Techniques in Cosmetology	3
CSMO 1535	Clinical Applications VIII	1-6
<b>Total 4-9</b>		

Federal Financial Aid is awarded and disbursed according to clock hour regulations.

## CERTIFICATE - BARBERING TECHNICIAN

The Barbering Technician Certificate program (no chemicals) includes the 1000 hours of barbering course work as required by Wyoming Law. It combines theory classes, practical work and hands on clientele practice. Completion of this program prepares the student for national testing in barbering technology.

Students must complete all program requirements with a grade of “C” or better.

Fall Semester		Credit
BARB 1550	General Science of Barbering	3
BARB 1525	Barbering Hair Fundamentals I	4
<b>Total 7</b>		

Spring Semester		Credit
BARB 1530	Barbering Hair Fundamentals II	3
BARB 1500	Clinical Applications I	4
BARB 1520	Barbering Shop Management/ Business Methods	3
BARB 1505	Clinical Applications II	3
<b>Total 13</b>		

# Programs of Instruction

<b>Summer Semester</b>		<b>Credit</b>
BARB 1625	Techniques in Barbering	3
BARB 1535	Clinical Applications VIII	6
BARB 1675	Barbering Assessment	1
<b>Total</b>		<b>10</b>

For more information about this certificate program, links to occupational information, estimated program cost, normal time for program completion, median debt at program completion (if available), please visit EWC's website at: <http://ewc.wy.edu/futurestudents/financial-aid/career/>.

Federal Financial Aid is awarded and disbursed according to clock hour regulations.

## CERTIFICATE - HAIR TECHNICIAN

The Hair Technology Certificate is designed for the student who only desires education/training in the area of hair design. This program begins in the SECOND HALF of the fall semester, and ends in the summer semester. Completion of this program prepares the student for national testing in the area of hair technology. Students must complete all program requirements with a grade of "C" or better.

<b>Fall Semester</b>		<b>Credit</b>
CSMO 1550	General Cosmetology Science	3
CSMO 1025	Hair Fundamentals	4
<b>Total</b>		<b>7</b>

<b>Spring Semester</b>		<b>Credit</b>
CSMO 1020	Intro to Hair Technology	3
CSMO 1035	Hair Fundamentals II	2
CSMO 1500	Clinical Applications I	3
CSMO 1030	Intro to Hair Technology II	2
CSMO 1505	Clinical Applications II	3
<b>Total</b>		<b>13</b>

<b>Summer Semester</b>		<b>Credit</b>
CSMO 1425	Techniques in Cosmetology	3
CSMO 1535	Clinical Applications VIII	1-6
CSMO 1375	Hair Technician Assessment	1
<b>Total</b>		<b>10</b>

For more information about this certificate program, links to occupational information, estimated program cost, normal time for program completion, median debt at program completion (if available), please visit EWC's website at: <http://ewc.wy.edu/futurestudents/financial-aid/career/>.

Federal Financial Aid is awarded and disbursed according to clock hour regulations.

## CERTIFICATE - NAIL TECHNICIAN

The Nail Technician Certificate is designed to train the student for an entry-level job in a high demand area of Cosmetology. It will also prepare the student for national testing in the area of nail technology. Students must complete all program requirements with a grade of "C" or better.

<b>Fall Semester</b>		<b>Credit</b>
CSMO 1000	Intro to Nail Technology	3
CSMO 1005	Nail Technology Lab	5
CSMO 1550	General Cosmetology Science	3
CSMO 1515	Clinical Applications IV	6
CSMO 1175	Nail Technician Assessment	1
<b>Total</b>		<b>18</b>

Federal Financial Aid is not available for this certificate program.

## CERTIFICATE - SKIN TECHNICIAN

This course will prepare the student for a career in the diversified area of skin care. This program begins in the spring semester **only** and is completed during the summer semester. The extensive training will also prepare the student for national testing in the area of skin care.

Students must complete all program requirements with a grade of "C" or better.

<b>Spring Semester</b>		<b>Credit</b>
CSMO 1010	Intro to Skin Technology	3
CSMO 1015	Skin Technology Lab	1
CSMO 1515	Clinical Applications IV	6
CSMO 1210	Esthetic Concepts I	2
<b>Total</b>		<b>12</b>

<b>Summer Semester</b>		<b>Credit</b>
CSMO 1555	General Cosmetology Science II	3
CSMO 1535	Clinical Applications VIII	1-6
CSMO 1275	Esthetics Assessment	1
<b>Total</b>		<b>10</b>

For more information about this certificate program, links to occupational information, estimated program cost, normal time for program completion, median debt at program completion (if available), please visit EWC's website at: <http://ewc.wy.edu/futurestudents/financial-aid/career/>.

Federal Financial Aid is awarded and disbursed according to clock hour regulations.

# Programs of Instruction

## CRIMINAL JUSTICE

DEGREE	CREDITS
ASSOCIATE OF ARTS- LAW ENFORCEMENT EMPHASIS	60-61
ASSOCIATE OF ARTS- CORRECTIONS EMPHASIS	60-61
ASSOCIATE OF APPLIED SCIENCE	60-62
CORRECTIONS CERTIFICATE	31-33

- 
- Those considering a career in a criminal justice
- field should be aware of strict admissions criteria
- employed by state standards and criminal justice
- agencies. Factors that may disqualify candidates
- for employment in the profession include
- conviction of a crime, history of drug abuse,
- psychological problems, and various physical
- conditions. Certain classes in the Eastern
- Wyoming College criminal justice program may
- also be restricted to individuals for the same
- reasons. Please consult with a department faculty
- advisor if you have any concerns in this area.
- 

### ASSOCIATE OF ARTS- CRIMINAL JUSTICE LAW ENFORCEMENT EMPHASIS

This program option is designed for the criminal justice student who is seeking a career in law enforcement. It may be used as a terminal degree or taken as preparation for transfer to a four-year program. Employment may be found in local, county, state, and federal law enforcement agencies.

Students must complete all program requirements, including approved electives, with a grade of "C" or better.

#### FRESHMAN YEAR

Fall Semester		Credit
CRMJ 2120	Intro to Criminal Justice	3
CRMJ 2350	Introduction to Corrections II/I	3
	Physical Education Activity	1
	Lab Science	4
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
<b>Total</b>		<b>15</b>

Spring Semester		Credit
CRMJ 2550	Criminal Investigation I	3
CRMJ 2420	Juvenile Justice	3
CRMJ 2210	Criminal Law I	3
CO/M 2010	Public Speaking	3
MATH 1000	Problem Solving	3

**Total 15**

#### SOPHOMORE YEAR

Fall Semester		Credit
CRMJ 1510	Law Enforcement Procedures	3
PSYC 1000	General Psychology	3
POLS 1000	American & Wyoming Government	3
SOC 1000	Sociological Principles	3
	*Approved Criminal Justice Elective	3

**Total 15**

Spring Semester		Credit
CRMJ 2690	Supervised Lab Experience	2-3
	*Approved Criminal Justice Electives	6
	Social & Cultural Awareness	3
	Arts & Humanities	3
CRMJ 2895	Criminal Justice Capstone Project	1

**Total 15-16**

### ASSOCIATE OF ARTS- CRIMINAL JUSTICE CORRECTIONS EMPHASIS

This program option is designed for the criminal justice student who is seeking a career in corrections. It may be used as a terminal degree or taken as preparation for transfer to a four-year program. Employment may be found in correctional institutions, probation and parole, juvenile probation, detention facilities, and community programs.

Student must complete all program requirements, including approved electives, with a "C" or better.

#### FRESHMAN YEAR

Fall Semester		Credit
CRMJ 2120	Intro to Criminal Justice	3
CRMJ 2350	Intro to Corrections II/I	3
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
	Lab Science	4
	Physical Education Activity	1
<b>Total</b>		<b>15</b>

# Programs of Instruction

<b>Spring Semester</b>		<b>Credit</b>
CRMJ 2210	Criminal Law I	3
CRMJ 2420	Juvenile Justice	3
MATH 1000	Problem Solving	3
PSYC 1000	General Psychology	3
SOC 1000	Sociological Principles	3
<b>Total 15</b>		

## SOPHOMORE YEAR

<b>Fall Semester</b>		<b>Credit</b>
CRMJ 2400	Criminology	3
CRMJ 2590	Drugs & Criminal Justice	3
POLS 1000	American & Wyoming Government	3
	Social & Cultural Awareness	3
	*Approved Criminal Justice Elective	3
<b>Total 15</b>		

<b>Spring Semester</b>		<b>Credit</b>
CO/M 2010	Public Speaking	3
CRMJ/PSYC 2125	Forensic Psychology	3
CRMJ 2370	Institutional Corrections	3
CRMJ 2690	Supervised Lab Experience	2-3
	Arts & Humanities	3
CRMJ 2895	Criminal Justice Capstone Project	1
<b>Total 15-16</b>		

<b>*Approved Criminal Justice Electives:</b>		
CRMJ 1510	Law Enforcement Procedures	3
CRMJ 2125	Forensic Psychology	3
CRMJ 2250	Criminal Justice Administration	3
CRMJ 2280	Criminal Procedures	3
CRMJ 2550	Criminal Investigation I	3
CRMJ 2570	Criminalistics (Forensics)	3
CRMJ 2590	Drugs & Criminal Justice	3
CRMJ/SOC 2400	Criminology	3
PSYC 2000	Research Psychological Methods	4

## ASSOCIATE OF APPLIED SCIENCE- CRIMINAL JUSTICE

Students must complete all program requirements, including approved electives, with a "C" or better.

### FRESHMAN YEAR

<b>Fall Semester</b>		<b>Credit</b>
CRMJ 1510	Law Enforcement Procedures	3
CRMJ 2120	Intro to Criminal Justice	3
CRMJ 2350	Introduction to Corrections II/I	3
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
	Constitutional Requirements	2-3
<b>Total 15-16</b>		

<b>Spring Semester</b>		<b>Credit</b>
CRMJ 1520	Law Enforcement Operations	3
CRMJ 2420	Juvenile Justice	3
CRMJ 2550	Criminal Investigation I	3
MATH 1515	Applied Technical Mathematics	3
	or higher level math	
CO/M 2010	Public Speaking	3
or CO/M 1030	Interpersonal Communication Physical Education Activity	1
<b>Total 16</b>		

## SOPHOMORE YEAR

<b>Fall Semester</b>		<b>Credit</b>
CRMJ 2781	Use of Force I	3
CRMJ 2560	Criminal Investigation II	3
PSYC 1000	General Psychology	3
CRMJ 2280	Criminal Procedures	3
CRMJ 2590	Drugs & Criminal Justice	3
<b>Total 15</b>		

<b>Spring Semester</b>		<b>Credit</b>
CRMJ 2791	Use of Force II	3
HLED 1221	Standard First Aid & Safety	2
CRMJ 2125	Forensic Psychology	3
CRMJ 2570	Criminalistics (Forensics)	3
CRMJ 2690	Supervised Lab Experience	2-3
CRMJ 2895	Criminal Justice Capstone Project	1
<b>Total 14-15</b>		

## CERTIFICATE-CORRECTIONS

The Corrections Certificate program is designed for both the pre-service student and current correctional employee. The program provides the academic background for an understanding of the criminal justice system and the role of corrections within it. It also provides the necessary foundation courses towards the pursuit of the Associate of Arts Degree in Criminal Justice.

Students must complete all program requirements, including approved electives, with a "C" or better.

### FRESHMAN YEAR

<b>Fall Semester</b>		<b>Credit</b>
PSYC 1000	General Psychology	3
CRMJ 2120	Intro to Criminal Justice	3
CRMJ 2350	Intro to Corrections II/I Freshman Foundations	1
MATH 1515	Applied Technical Math or higher level math course	3
	Constitutional Requirements	2-3
<b>Total 15-16</b>		

## Programs of Instruction

<b>Spring Semester</b>		<b>Credit</b>
ENGL 1010	English Composition I	3
CRMJ 2210	Criminal Law I	3
CRMJ 2370	Institutional Corrections	3
CO/M 1030	Interpersonal Communications	3
CRMJ 2125	Forensic Psychology	3
	Physical Education Activity	1
	Outcomes Assessment: Departmental Paper	
<b>Total</b>		<b>16</b>

For more information about this certificate program, links to occupational information, estimated program cost, normal time for program completion, median debt at program completion (if available), please visit EWC's website at: <http://ewc.wy.edu/future-students/financial-aid/career/>.

### ECONOMICS

<b>DEGREE</b>	<b>CREDITS</b>
ASSOCIATE OF SCIENCE	60

Students must complete all program requirements, including approved electives, with a "C" or better.

### FRESHMAN YEAR

<b>Fall Semester</b>		<b>Credit</b>
CO/M 2010	Public Speaking	3
ECON 1010	Macroeconomics	3
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
	Constitutional Requirements	3
	*Approved Elective	2
<b>Total</b>		<b>15</b>

<b>Spring Semester</b>		<b>Credit</b>
ECON 1020	Microeconomics	3
ENGL 2020	Introduction to Literature	3
MATH 1400	Pre-Calculus Algebra	4
PSYC 1000	General Psychology	3
	Lab Science	4
<b>Total</b>		<b>17</b>

### SOPHOMORE YEAR

<b>Fall Semester</b>		<b>Credit</b>
ACCT 1010	Principles of Accounting I	3
STAT 2050	Fundamentals of Statistics	4
MATH 2350	Business Calculus	4
	Physical Education Activity	1
	Arts & Humanities	3
<b>Total</b>		<b>15</b>

<b>Spring Semester</b>		<b>Credit</b>
ACCT 1020	Principles of Accounting II	3
BADM 2010	Business Law I	3
MATH 2355	Mathematical Applications for Business	4
IMGT 2400	Introduction to Information Management	3
	Social & Cultural Awareness	3
	Outcomes Assessment: Departmental Paper	
<b>Total</b>		<b>13</b>

\*Approved Electives: Any course at the 1000 or above level.

### EDUCATION

<b>DEGREE</b>	<b>CREDITS</b>
ASSOCIATE OF ARTS—	
EARLY CHILDHOOD EDUCATION	60-61
ELEMENTARY EDUCATION	60
SECONDARY EDUCATION	60
SECONDARY EDUCATION—	
AGRICULTURE OPTION	60
CERTIFICATE-	
CHILD DEVELOPMENT	24

Criminal background checks are required for certain courses in this area. The background check will cover sexual offender information, general criminal history, and adult and child neglect information. Student financial aid may be used to cover the cost.

The Associate of Arts Degree in Education provides freshman and sophomore level courses required for most students majoring in education. Education programs vary greatly at four-year institutions, so the student should consult the catalog of the college or university of his/her choice for information on specific program requirements.

The following courses are required for students majoring in elementary education and planning to transfer to the University of Wyoming: Educational Foundations 2451, Life Span: Adulthood (in addition to Psychology 2300, Developmental Psychology). Elementary Education majors must complete 3 specific science courses and seminars; please consult your advisor for more information.

Education majors planning to transfer to Chadron State College are well-advised to complete an

## Programs of Instruction

Associate of Arts Degree at Eastern Wyoming College. Our articulation agreement with Chadron specifies that students with an A.A. Degree will have met all of their General Studies requirements except the 6 hours at the upper division level.

Middle school education requirements vary from state to state. In some states, students may add a middle school endorsement to an elementary or a secondary education program. Specific courses for this endorsement are not currently available at this community college.

Students must complete all program requirements, including approved electives, with a grade of "C" or better.

### ELEMENTARY EDUCATION

#### FRESHMAN YEAR

Fall Semester		Credit
ENGL 1010	English I: Composition	3
EDFD 2020	Foundations of Education	3
MATH 1100	Math for Elementary Teachers I	3
EDEL 1410	Elementary School Math Seminar I	1
	Physical Education Activity	1
	Freshmen Foundations	1
	Constitutional Requirement	3
<b>Total 15</b>		

Spring Semester		Credit
	Communication 2	3
EDUC 2100	Practicum in Teaching	2
MATH 2120	Math for Elementary Teachers II	3
EDEL 2410	Elementary School Math Seminar II	1
LIBS 2280	Literature for Children	3
	*Approved Program Electives	3
<b>Total 15</b>		

#### SOPHOMORE YEAR

Fall Semester		Credit
ITEC 2360	Teaching with Technology	3
EDFD 2100	Educational Psychology	3
	Social & Cultural Awareness	3
	Lab Science	4
	*Approved Program Electives	3
<b>Total 16</b>		

Spring Semester		Credit
EDEX 2484	Introduction to Special Education	3
EDFD 2450	Lifespan Human Development	3
	*Approved Program Electives	7
EDUC 2800	Education Capstone	1
<b>Total 14</b>		

#### \*Approved Program Electives

Any course at the 1000 or above level with the following prefixes:  
 ANTH, ART, BIOL, CHEM, EDUC, EDEC, EDEL, ENGL, FCSC, FREN, GEOG, GEOL, GERM, HLED, HIST, MATH, MOLB, MUSC, PHIL, PEAC, PEPR, PHYS, POLS, PSYC, RELI, SOSOC, SPAN, STAT, THEA, WMST or ZOO

### EARLY CHILDHOOD EDUCATION

The Early Childhood Education Associate of Arts degree is a four-semester program designed to prepare students for employment as teachers or aides in early childhood programs, preschools, and Head Start Programs. Students will gain background in child development as well as planning and administering early childhood educational programs. The courses will combine lecture activities with observation and participation activities in early childhood settings. The associate's degree will allow students to enter the workforce or further their education as early childhood professionals.

#### FRESHMAN YEAR

Fall Semester		Credit
ENGL 1010	English I: Composition	3
EDEC 1020	Intro to Early Childhood Education	3
	Social & Cultural Awareness	3
	Physical Education Activity	1
	Freshman Foundations	1
	Constitutional Requirements	3
<b>Total 14</b>		

Spring Semester		Credit
HLED 1221	Standard First Aid & Safety	2
MATH 1000	Problem Solving	3
or BADM 1005	Business Mathematics I	
FCSC 2121	Child Development	4
	Communication 2	3
	Program/Additional Electives	3
<b>Total 15</b>		

# Programs of Instruction

## SOPHOMORE YEAR

### Fall Semester Credit

ITEC 2360	Teaching with Technology	3
EDEC 2000	Engaging Families in Early Childhood Setting	3
LIBS 2280	Literature for Children	3
	Lab Science	4
	Program/Additional Electives	3

**Total 16**

### Spring Semester Credit

EDUC 2800	Education Capstone Program/Additional Electives	1 14-15
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**Total 15-16**

### Program Notes:

**Program Electives:** Students should take a minimum of 4 courses from the following list (11-12 credit hours).

EDEC 1100	Observation and Guidance of Young Children	2
EDEC 1105	Observation and Guidance of Young Children Lab	1
EDEC 1300	Curriculum Planning and Development for Young Children	2
EDEC 1305	Curriculum Planning and Development for Young Children Lab	1
EDEC 1200	Administration in Early Childhood Programs	3
EDFD 2020	Foundations of Education	3
EDUC 2100	Practicum in Teaching	2

**Additional Electives:** Students may take 8 or more credit hours from the following list of courses.

ART 2074	Art for the Elementary/Middle School Teacher	3
BADM 1000	Introduction to Business	3
BADM 1020	Business Communications	3
BADM 1030	Personal Finance	3
CO/M 2010	Public Speaking	3
CO/M 1040	Introduction to Human Communication	3
EDEX 2484	Introduction to Special Education	3
FCSC 1140	Nutrition	3
or FCSC 1141	Principles of Nutrition	3
MUSC 2018	Music for Elementary Classroom Teachers	3
PEPR 1052	Prevention of Athletic Injuries/Illness	3
PSYC 1000	General Psychology	3
SOC 1000	Sociological Principles	3

## CERTIFICATE - CHILD DEVELOPMENT

This cohort program will enable students to meet the entry level requirements for employment in an early childhood care and education setting. Students will gain basic knowledge of child development and acquire the fundamental skills necessary to effectively educate and care for young children. In addition to entry level competencies, this program will also serve as partial completion for Elementary Education majors seeking a minor in Early Childhood Education, or an endorsement. The certificate provides professional training through a combination of coursework and applied experiences working with children. This cohort will be offered on a rotating basis only which will include odd fall semesters and even spring semesters only.

### Odd Fall Semester Credit

EDEC 1020	Introduction to Early Childhood Education	3
EDEC 2000	Engaging Families in Early Childhood Settings	3
EDEC 1100	Observation and Guidance of Young Children	2
EDEC 1105	Observation and Guidance of Young Children Lab	1
LIBS 2280	Literature for Children	3

**Total 12**

### Even Spring Semester Credit

FCSC 2121	Child Development*	4
EDEC 1200	Administration in Early Childhood Programs	3
EDEC 1300	Curriculum Planning and Development for Young Children	2
EDEC 1305	Curriculum Planning and Development for Young Children Lab	1
HLED 1221	Standard First Aid & Safety (Infant/Child CPR)(This course can be waived for students with a current Infant/Child & Adult CPR card)	2

\*Child Development course will include development of portfolio.

\*\*Students seeking Child Development Associate (CDA) completion should note that FCSC 2121, EDEC 1100 & 1105, and EDEC 1300 & 1305 include a combined total of 90 hours of early childhood classroom experience as partial fulfillment to meet the CDA credential. (Child Development Associate



# Programs of Instruction

credential is recognized nationwide for entry-level employment into the childcare profession.)

\*\*\*Elementary Education Majors: Successful completion of this program will enable students to meet the entry-level requirements for employment in an early childhood care and education setting.

Elementary Education majors completing all 12 hours of required courses with a "C" or better and at least one elective course will receive transfer credit at the University of Wyoming toward a minor in Early Childhood Education. Students transferring to Chadron State, Black Hills State, or Valley City State should consult with their advisor regarding transferability of this certificate/courses.

## SECONDARY EDUCATION

### FRESHMAN YEAR

Fall Semester		Credit
ENGL 1010	English I: Composition	3
EDFD 2020	Foundations of Education	3
PYSC 1000	General Psychology	3
	Foundations	1
MATH 1000	Problem Solving or higher level math	3
	Physical Education Activity	1
<b>Total</b>		<b>14</b>

Spring Semester		Credit
	Communication 2	3
	Constitutional Requirement	3
EDUC 2100	Practicum in Teaching	2
	Area of Concentration/ Approved Electives	7
<b>Total</b>		<b>15</b>

### SOPHOMORE YEAR

Fall Semester		Credit
ITEC 2360	Teaching With Technology	3
EDFD 2100	Educational Psychology	3
	Arts & Humanities	3
	Area of Concentration/ Approved Electives	3
	Lab Science	4
<b>Total</b>		<b>16</b>

Spring Semester		Credit
EDEX 2484	Introduction to Special Education	3
EDUC 2800	Capstone: Education	1
	Area of Concentration/ Approved Electives	11
<b>Total</b>		<b>15</b>

### \*Approved electives for secondary education majors:

*CO/M 2010	Public Speaking	3
**EDFD 2450	Lifespan Human Development	3

### Area of Concentration / Approved Electives: Take any courses with the following prefixes:

ACCT, AGECE, AGRI, AGTK, AECL, AMST, ANSC, ANTH, ART, BIOL, BADM, CHEM, CO/M, ECON, EDEC, EDEL, EDFD, ELTR, ENTK, ENGL, EQST, FCSC, FREN, GEOG, GEOL, GERM, HLED, HIST, JOUR, MCHT, MGT, MKT, MATH, MINE, MOLB, MUSC, PHIL, PEAC, PEAT, PEPR, PHYS, POLS, PSYC, REWM, RELI, RNEW, SAFE, SOSOC, SOWK, SOC, SOIL, SPAN, STAT, THEA, WELD, WMST, ZOO

NOTE: Most coaching endorsements require HLED 1221

\*Suggested Elective

\*\*EDFD 2450 Lifespan Human Development must be taken if you are planning to transfer to the University of Wyoming.

## SECONDARY EDUCATION AGRICULTURE OPTION

The agriculture education curriculum provides the student with a good preparation for transferring to a bachelor completion program at a four-year institution. It is designed for those students interested in teaching in high schools, technical schools, and community colleges. This program emphasizes animal science and general agricultural courses. Education programs vary greatly at four-year institutions so the student should consult the catalog of the college or university of his/her choice for information on specific program requirements.

Students must complete all program requirements including approved electives with a "C" or better.

### FRESHMAN YEAR

Fall Semester		Credit
ENGL 1010	English I: Composition	3
EDFD 2020	Foundations of Education	3
MATH 1400	Pre-Calculus Algebra	4
AECL 1000	Agroecology	4
	Freshman Foundations	1
	Physical Education Activity	1
<b>Total</b>		<b>16</b>

# Programs of Instruction

<b>Spring Semester</b>		<b>Credit</b>
ANSC 1010	Livestock Production	4
EDUC 2100	Practicum in Teaching	2
	Communication 2	3
	Constitutional Requirements	3
	Social & Cultural Awareness	3
<b>Total</b>		<b>15</b>

## SOPHOMORE YEAR

<b>Fall Semester</b>		<b>Credit</b>
ITEC 2360	Teaching With Technology	3
EDFD 2100	Educational Psychology	3
AGEC 1010	Macroeconomics	3
ANSC 2030	Feeds and Feeding	4
	Elective	1
<b>Total</b>		<b>14</b>

<b>Spring Semester</b>		<b>Credit</b>
EDEX 2484	Introduction to Special Ed	3
CHEM 1000	Introductory Chemistry	4
REWM 2000	Rangeland Management	3
	Arts & Humanities	3
AGEC 2395	Ag Capstone Project	2
<b>Total</b>		<b>15</b>

### Additional requirements/electives for Secondary Agriculture Education majors:

#### University of Wyoming:

CO/M 1040	Introduction to Human Communication
BIOL 1010	General Biology I
*EDFD 2450	Lifespan Human Development

(\*EDFD 2450 Lifespan Human Development must be taken if the student is planning to transfer to the University of Wyoming.)

#### Chadron:

ENGL 2020	Introduction to Literature
CO/M 2010	Public Speaking

**Note: Most coaching endorsements require  
HLED 1221 and PEPR 1052**

**It is important for students to consult  
with their advisor to validate that transfer  
requirements are met.**

## ENGLISH

<b>DEGREE</b>	<b>CREDITS</b>
ASSOCIATE OF ARTS	60-61

The program in English is designed to provide freshman- and sophomore-level courses required of most students majoring in English or English education. The student should consult the catalog of the college or university of his/her choice for information on the specific requirements of that institution. Students planning to major in English can benefit from any additional study in writing, language, and other areas of the humanities and fine arts.

Students must complete all program requirements, including approved electives, with a grade of "C" or better.

## FRESHMAN YEAR

<b>Fall Semester</b>		<b>Credit</b>
ENGL 1010	English I:Composition	3
FREN 1010	1st Year French I	4
or SPAN 1010	1st Year Spanish I	
	Freshman Foundations	1
MATH 1000	Problem Solving	3-4
or MATH 1400	Pre-Calculus Algebra	
	Constitutional Requirements	3
<b>Total</b>		<b>14-15</b>

<b>Spring Semester</b>		<b>Credit</b>
	Social & Cultural Awareness	3
ENGL 2020	Introduction to Literature	3
FREN 1020	1st Year French II	4
or SPAN 1020	1st Year Spanish II	
	Physical Education Activity	1
	Lab Science	4
<b>Total</b>		<b>15</b>

## SOPHOMORE YEAR

<b>Fall Semester</b>		<b>Credit</b>
ENGL 2425	Literatures in English I	3
or ENGL 2430	Literatures in English II	
or ENGL 2435	Literatures in English III	
	Arts & Humanities	3
	Arts & Humanities or Social & Cultural Awareness	3
	*Approved Electives	6
<b>Total</b>		<b>15</b>

## Programs of Instruction

Spring Semester	Credit
ENGL 2425 Literatures in English I or ENGL 2430 Literatures in English II or ENGL 2435 Literatures in English III	3
PSYC 1000 General Psychology	3
*Approved Electives	10
Outcomes Assessment: Choice of Research Project, Journal, or Essay	
<b>Total 16</b>	

**\*Approved electives include:**

ART 2010 Art History I	3
ART 2020 Art History II	3
ENGL 2050 Creative Writing - Introduction to Fiction	3
ENGL 2370 Western American Literature	3
ENGL 2440 Literary Genres: Short Story	3
HIST 1110 Western Civilization I	3
HIST 1120 Western Civilization II	3
PHIL 1000 Introduction to Philosophy	3
SOSC 2300 Ethics in Practice	3
Computer Applications	

**NOTE: Students must consult with their academic advisors to make sure they meet program requirements.**

### ENGLISH AS A SECOND/FOREIGN LANGUAGE TEACHING CERTIFICATE PROGRAM

DEGREE	CREDITS
CERTIFICATE	16

The ESL/EFL Teaching Certificate program is intended for individuals wanting to teach English as a Second Language and/or English as a Foreign Language. The program is designed to provide students with a brief overview of the major concepts involved in teaching in these fields as well as practical experience in the development of lessons in the four major content areas of listening, speaking, reading, and writing.

The program is designed as a skill certificate program for those seeking certification to teach English as a Foreign Language and/or for Adult Basic Education instructors qualified to teach in other content areas with and ESL certification.

Students must complete all program requirements, including approved electives, with a grade of "C" or better.

FRESHMAN YEAR		
Fall Semester		Credit
EDUC 2225 Introduction to Teaching English as a Foreign/ Second Language	3	
EDUC 2220 Multicultural Education	1	
<b>Total</b>		<b>4</b>

Spring Semester		Credit
EDUC 2230 Second Language Acquisition	3	
ITEC 2360 Teaching with Technology	3	
<b>Total</b>		<b>6</b>

SOPHOMORE YEAR		
Fall Semester		Credit
EDUC 2235 Teaching ESL/EFL Reading & Writing	3	
EDUC 2240 Teaching ESL/EFL Listening & Speaking	3	
<b>Total</b>		<b>6</b>

Federal Financial Aid is not available for this certificate program.

### CERTIFICATE - ENTREPRENEURSHIP

DEGREE	CREDITS
CERTIFICATE	18

The Entrepreneurship Certificate program provides students who have the desire to start a business with an understanding of the concepts to chart a successful course toward business ownership. Emphasis is placed on identifying and evaluating entrepreneurial potential to successfully start a business.

Students must complete all program requirements, including approved electives, with a grade of "C" or better.

FRESHMAN YEAR		
Fall Semester		Credit
ENTR 1500 Successful Entrepreneurship	2	
ENTR 1520 Creating a Business Plan	2	
ENTR 2500 Small Business Operations Management	2	
ENTR 2520 Legal Issues for Entrepreneurs	2	
ACCT 1050 Practical Accounting I	2	
CMAP 1685 Computer Applications: Quick Books	1	
MKT 1000 Sales	3	
MKT 2100 Principles of Marketing Electives	3	
<b>Total 18</b>		

For more information about this certificate program, links to occupational information, estimated program

# Programs of Instruction

cost, normal time for program completion, median debt at program completion (if available), please visit EWC's website at: <http://ewc.wy.edu/future-students/financial-aid/career/>.

## INTERDISCIPLINARY STUDIES

DEGREE	CREDITS
ASSOCIATE OF ARTS	60-62
ASSOCIATE OF SCIENCE	60-63

The purpose of this program is to offer a student an opportunity for a broad-based degree rather than focusing on any one major area. Specific courses listed meet the general education requirements for EWC. It is suggested that you work with your advisor to select other electives. Degree requirements vary greatly at four-year institutions, so the student should consult the catalog of the college or university of his/her choice for information on specific program requirements. Also, the student should be aware that the Associate of Arts degree is considered the traditional "transfer" degree, so it may be a better choice for students.

Students must complete all program requirements, including approved electives, with a "C" or better.

## ASSOCIATE OF ARTS INTERDISCIPLINARY STUDIES

FRESHMAN YEAR		
Fall Semester		Credit
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
MATH 1000	Problem Solving	3-4
or MATH 1400	Pre-Calculus Algebra	
	Physical Education Activity	1
	*Approved Electives	7
	<b>Total</b>	<b>15-16</b>
Spring Semester		Credit
	Computer Electives (CO5C/CMAP/ITEC/ INET courses)	2-3
	Communication 2	3
	Social & Cultural Awareness	3
	*Approved Electives	7
	<b>Total</b>	<b>15-16</b>

## SOPHOMORE YEAR

Fall Semester		Credit
	Constitutional Requirements	3
	Lab Science	4
	Arts & Humanities	3
	*Approved Electives	5
	<b>Total</b>	<b>15</b>
Spring Semester		Credit
	Arts & Humanities	3
	*Approved Electives	9
**ENGL 2001	Sophomore Project Interdisciplinary Writing	3
	<b>Total</b>	<b>15</b>

\*Approved Elective: Any course at the 1000 or above level.

**\*\*Note:** If a student has completed 24-28 credit hours of program requirements in Business Administration, AA Degree; Pre-professional, AS Degrees; or Education, AA & AS Degrees; he/she may be eligible to take those program Outcomes Assessment activities instead of ENGL 2001. This requires the permission of one of the Division Chairs.

## ASSOCIATE OF SCIENCE INTERDISCIPLINARY STUDIES

### FRESHMAN YEAR

Fall Semester		Credit
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
MATH 1000	Problem Solving	3-4
or MATH 1400	Pre-Calculus Algebra	
	Physical Education Activity	1
	*Approved Electives	7
	<b>Total</b>	<b>15-16</b>

Spring Semester		Credit
	Computer Electives (CO5C/CMAP/ITEC/ INET courses)	2-3
	Communication 2	3
	Social & Cultural Awareness	3
	*Approved Electives	7
	<b>Total</b>	<b>15-16</b>

### SOPHOMORE YEAR

Fall Semester		Credit
	Arts & Humanities	3
	Constitutional Requirements	3
	Lab Science	4
	*Approved Electives	5
	<b>Total</b>	<b>15</b>

# Programs of Instruction

Spring Semester	Credit
Lab Science or Mathematics	3-4
*Approved Electives	9
**ENGL 2001 Sophomore Project	3
Interdisciplinary Writing	
<b>Total</b>	<b>15-16</b>

\*Approved Electives: Any course at the 1000 or above level.

**\*\*Note:** If a student has completed 24-28 credit hours of program requirements in Business Administration, AA Degree; Pre-professional, AS Degrees; or Education, AA & AS Degrees; he/she may be eligible to take those program Outcomes Assessment activities instead of ENGL 2001. This requires the permission of one of the Division Chairs.

## LANGUAGES (FOREIGN)

DEGREE	CREDITS
ASSOCIATE OF ARTS	60-61

Eastern Wyoming College students desiring a major in French or in Spanish should concentrate on fulfilling the general requirements for a transfer program. Those students interested in earning a teaching credential should add courses in education and in psychology.

Language courses offered are 1010, 1020, 2030, and 2475 in French and Spanish. College credit may be obtained by means of an examination. (For regulations governing credit by examination, check that section in the catalog.)

Students must complete all program requirements, including approved electives, with a "C" or better.

FRESHMAN YEAR		
Fall Semester		Credit
ENGL 1010	English I:Composition	3
FREN 1010	1st Year French I	4
or SPAN 1010	1st Year Spanish I	
	Freshman Foundations	1
	Constitutional Requirements	3
	Lab Science	4
	<b>Total</b>	<b>15</b>

Spring Semester		
		Credit
ENGL 2020	Introduction to Literature	3
FREN 1020	1st Year French II	4
or SPAN 1020	1st Year Spanish II	
MATH 1000	Problem Solving	3-4
or MATH 1400	Pre-Calculus Algebra	
	Arts & Humanities	3
	Physical Education Activity	1
	<b>Total</b>	<b>14-15</b>

## SOPHOMORE YEAR

Fall Semester		Credit
FREN 2030	2nd Year French I	4
or SPAN 2030	2nd Year Spanish I	
PSYC 1000	General Psychology	3
	Arts & Humanities	3
	*Approved Elective	6
	<b>Total</b>	<b>16</b>

Spring Semester		Credit
	Social & Cultural Awareness	3
	*Approved Electives	6
	**General Electives	6
	Outcomes Assessment: Choice of Research Project, Journal, or Essay	
	<b>Total</b>	<b>15</b>

*Approved electives:		
ART 2010	Art History I	3
ART 2020	Art History II	3
ENGL 2425	Literatures in English I	3
ENGL 2430	Literatures in English II	3
ENGL 2435	Literatures in English III	3
ENGL 2440	Literary Genres: Short Story	3
GEOG 1000	World Regional Geography	3
GEOG 1020	Human Geography	3
HIST 2290	North American Indians	3
MUSC 2050	Music History Survey I	3
PHIL 1000	Introduction to Philosophy	3
SOSC 2300	Ethics in Practice	3

\*\*General Electives: Any course at the 1000 level or above.

## MATHEMATICS

DEGREE	CREDITS
ASSOCIATE OF SCIENCE	62
ASSOCIATE OF ARTS—	
SECONDARY EDUCATION	61-63

It is impossible to overemphasize the value of mathematics as a tool in other fields, notably engineering, physical science, and statistics. Recent developments in the biological, behavioral, and social sciences have drawn attention to the power of mathematics in these fields also. Along with the teaching of mathematics and research into pure mathematics, students majoring in mathematics also have many other options open to them. The courses listed below provide a strong background for specialization during the student's junior and senior years.

# Programs of Instruction

Students must complete all program requirements, including approved electives, with a grade of "C" or better.

## ASSOCIATE OF SCIENCE- MATHEMATICS

### FRESHMAN YEAR

Fall Semester		Credit
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
	Physical Education Activity	1
MATH 2200	Calculus I	4
	*Approved Electives	3
	Lab Science	4
<b>Total</b>		<b>16</b>

Spring Semester		Credit
ENGL 2020	Introduction to Literature	3
MATH 2205	Calculus II	5
STAT 2050	Fundamentals of Statistics	4
	Lab Science	4
<b>Total</b>		<b>16</b>

### SOPHOMORE YEAR

Fall Semester		Credit
MATH 2210	Calculus III	5
	Lab Science	4
	Social & Cultural Awareness	6
<b>Total</b>		<b>15</b>

Spring Semester		Credit
MATH 2250	Elementary Linear Algebra	3
	*Approved Electives	7
	Constitutional Requirements	3
	Arts & Humanities	3
	Outcomes Assessment:	
	Departmental Exam	
<b>Total</b>		<b>16</b>

*Approved Electives: Any course at the 1000 level or above.
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## ASSOCIATE OF ARTS-SECONDARY EDUCATION, MATHEMATICS

### FRESHMAN YEAR

Fall Semester		Credit
EDFD 2020	Foundations of Education	3
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
MATH 2200	Calculus I	4
	Physical Education Activity	1
PSYC 1000	General Psychology	3
<b>Total</b>		<b>15</b>

Spring Semester		Credit
ENGL 2020	Introduction to Literature	3
MATH 2205	Calculus II	5
STAT 2050	Fundamentals of Statistics	4
EDEX 2484	Intro to Special Education	3
	Arts & Humanities	3
<b>Total</b>		<b>18</b>

### SOPHOMORE YEAR

Fall Semester		Credit
MATH 2210	Calculus III	5
	Lab Science	4
EDFD 2100	Educational Psychology	3
	Social & Cultural Awareness	3
<b>Total</b>		<b>15</b>

Spring Semester		Credit
MATH 2250	Elementary Linear Algebra	3
ITEC 2360	Teaching with Technology	3
	Constitutional Requirement	3
	Arts & Humanities	3
EDUC 2100	Practicum in Teaching	2-3
	Outcomes Assessment:	
	Departmental Exam	
<b>Total:</b>		<b>14-15</b>

**\*Note: Students planning to transfer to the University of Wyoming should take EDFD 2450 Lifespan Human Development.**

# Programs of Instruction

## MUSIC

DEGREE	CREDITS
ASSOCIATE OF ARTS—	
MUSIC (APPLIED)	60-61
MUSIC EDUCATION	62-63

### MUSIC (APPLIED)

The Associate of Arts in Music (Applied) provides the freshman and sophomore level courses required by most colleges and universities for a Bachelor's of Music. Although many of the basic courses are the same, students planning on transferring to a four-year institution should contact their chosen school for degree and transfer requirements during the beginning of their first year of instruction.

There are three possible outcomes assessments available to those seeking a Music (Applied) degree. One of the three assessments must be chosen during the first semester of the sophomore year in preparation for the work during the final semester. The three possible assessment projects in music are

1. Performance recital of at least 1/2 hour of music approved by applied music instructor, with a written critique by faculty and a non-departmental individual.
2. A lengthy scholarly paper and classroom presentation on a music theory or music history topic, chosen by the advisor. The paper will receive a written critique by faculty and a non-departmental individual.
3. A written musical composition, for solo instrument or duet of at least 20 minutes in length or a 5-10 minute large ensemble work, to be presented at a student recital. The composition will receive a written critique by faculty and a non-departmental individual.

Students must complete all program requirements, including approved electives, with a grade of "C" or better.

## FRESHMAN YEAR

Fall Semester		Credit
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
MUSC 1000	Introduction to Music	3
MUSC 1030	Written Theory I	3
MUSC 1035	Aural Theory I	1
MUSC 1415	Introduction to Music	
	Technology	2
MUSC	Applied Music Lessons	1
MUSC	Approved Music Ensemble	1
MUSC 2455	Convocation	0
	Physical Education Activity	1
<b>Total</b>		<b>16</b>

Spring Semester		Credit
	Communication 2	3
MUSC 1040	Written Theory II	3
MUSC 1045	Aural Theory II	1
MUSC 2015	Introduction to the Music	
	of the World's Peoples	3
MUSC	Applied Music Lessons	1
MUSC	Approved Music Ensemble	1
MUSC 2455	Convocation	0
	Constitutional Requirements	3
<b>Total</b>		<b>15</b>

## SOPHOMORE YEAR

Fall Semester		Credit
MATH 1000	Problem Solving	
or MATH 1400	Pre-Calculus Algebra	3-4
MUSC	Approved Music Ensemble	1
MUSC 2030	Written Theory III	3
MUSC 2035	Aural Theory III	1
MUSC 2050	Music History Survey I	3
MUSC	Applied Music Lessons	1
MUSC 2455	Convocation	0
	Lab Science	4
<b>Total</b>		<b>16-17</b>

Spring Semester		Credit
MUSC	Approved Music Ensemble	1
MUSC 2040	Written Theory IV	3
MUSC 2045	Aural Theory IV	1
MUSC 2055	Music History Survey II	3
MUSC	Applied Music Lessons	1
MUSC 2455	Convocation	0
ART 2020	Art History II	3
	Outcomes Assessment:	
	Recital Performance	
<b>Total</b>		<b>12</b>

# Programs of Instruction

## MUSIC EDUCATION

The Associate of Arts in Music Education provides the freshman and sophomore level courses required by most colleges and universities for a Bachelor's of Music in Music Education. Although many of the basic courses are the same, students planning on transferring to a four-year institution should contact their chosen school for degree and transfer requirements.

Students must complete all program requirements, including approved electives, with a "C" or better.

### FRESHMAN YEAR

Fall Semester		Credit
EDFD 2020	Foundations of Education	3
ENGL 1010	English I:Composition	3
MUSC 1030	Written Theory I	3
MUSC 1035	Aural Theory I	1
PSYC 1000	General Psychology	3
	Freshman Foundations	1
MUSC	**Applied Music Lessons	1
MUSC	***Music Ensemble	1
MUSC 2455	Convocation	0
<b>Total 16</b>		

Spring Semester		Credit
	Communication 2	3
EDFD 2450	Lifespan Human Development	3
MUSC 1040	Written Theory II	3
MUSC 1045	Aural Theory II	1
MUSC	**Applied Music Lessons	1
MUSC	***Music Ensemble	1
	Physical Education Activity	1
MUSC 2455	Convocation	0
	Constitutional Requirements	3
<b>Total 16</b>		

### SOPHOMORE YEAR

Fall Semester		Credit
MATH 1000	Problem Solving	
or MATH 1400	Pre-Calculus Algebra	3-4
EDUC 2100	Practicum in Teaching	2
EDFD 2100	Educational Psychology	3
MUSC 2030	Written Theory III	3
MUSC 2035	Aural Theory III	1
MUSC	**Applied Music Lessons	1
MUSC	***Music Ensemble	1
MUSC 2455	Convocation	0
<b>Total 14-15</b>		

Spring Semester		Credit
EDEX 2484	Introduction to Special Education	3
MUSC 2040	Written Theory IV	3
MUSC 2045	Aural Theory IV	1
MUSC 2018	Music for Elementary Classroom Teachers	3
MUSC	**Applied Music Lessons	1
MUSC	***Music Ensemble	1
	Lab Science	4
MUSC 2455	Convocation	0
	Outcomes Assessment: Recital Performance With Outside Critique	
<b>Total 16</b>		

\*Students seeking K-12 endorsement should take LIBS-2280 Children's Literature. This course will fulfill both the Humanities and Cultural Awareness requirements.

\*\*Music Education programs typically require students to engage in four to six semesters of applied individual lessons.

\*\*\*Music Ensemble participation is required for most transferring institutions. While the number of required credits varies from institution to institution, it is strongly recommended to be involved in ensembles every semester you are enrolled.

Convocation requirement: Convocation is a four-semester requirement for music majors. Convocation is a weekly meeting with students and staff to provide an opportunity to perform, listen, and critique a variety of different music styles and repertoire. Students will work with their advisor to ensure they meet satisfactory convocation requirements.

EWC strongly suggest that students work closely with their faculty advisor to create a schedule that will meet our graduation obligations while fulfilling transfer requirements, and to ensure student success while at EWC and further academic endeavors.



# Programs of Instruction

## NURSING (Available at Douglas Campus Only) ACEN Candidate

DEGREE	CREDITS
ASSOCIATE DEGREE OF NURSING	69

The nursing program prepares the graduate to function as a Registered Nurse in providing care to clients with complex health care needs. Upon successful completion of this program, students are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN) in any state. This program may require travel to surrounding communities. It is recommended that students contact the college regarding the program requirements. Students must complete all program requirements, including approved prerequisites with a grade of "C" or better and meet the minimum GPA of 2.5. **EWC will admit a cohort group students every two years.**

Please note that this program has strict admittance requirements. Please visit <https://ewc.wy.edu/learning-and-outreach/nursing/>. For more information contact **Suzey Delger (EWC Director of Nursing)** at 307.624.7000.

### Program Prerequisite:

- Test of Essential Academic Skills (TEAS) - V entrance test

FRESHMAN YEAR		
Spring Semester		Credit
ENGL 1010	English I: Composition	3
BIOL 1010	General Biology I	4
	Freshman Foundations	1
MATH 1400	Pre-Calculus Algebra	4
ZOO 2015	Human Anatomy	4
<b>Total 16</b>		

Fall Semester		Credit
NURS 1100	Nursing Care: Health Promotion	9
ZOO 2025	Human Physiology	4
<b>Total 13</b>		

Spring Semester		Credit
NURS 1200	Nursing Care: Chronic Illness	9
CO/M 2010	Public Speaking	3
PSYC 1000	General Psychology	3
<b>Total 15</b>		

## SOPHOMORE YEAR

Fall Semester		Credit
NURS 2300	Nursing Care: Acute Illness	9
MOLB 2220	Pathogenic Microbiology	4
<b>Total 13</b>		

Spring Semester		Credit
NURS 2400	Nursing Care: Complex Illness	9
POLS 1000	American & Wyoming Government Outcomes Assessment: NCLEX-RN Exam	3
<b>Total 12</b>		

This program is intended to articulate with the BSN program with the University of Wyoming. Please work closely with an advisor if you intend to pursue a bachelor's degree with the University of Wyoming.

## PHYSICAL EDUCATION, HEALTH AND RECREATION

DEGREE	CREDITS
ASSOCIATE OF ARTS	60-61

The physical education department has three principal functions: 1) provide general physical activity and recreation activity classes to fulfill degree requirements for graduation, 2) prepare teachers for professional physical education, and 3) conduct the college intramural program for all students. A minimum of 100 noncredit contact hours with youth age 16 and under in each of the freshman and sophomore years will be required prior to matriculation at most four-year institutions.

Students must complete all program requirements, including approved electives, with a "C" or better.

FRESHMAN YEAR		
Fall Semester		Credit
BIOL 1010	General Biology I	4
or BIOL 1000	Principles of Biology	
EDFD 2020	Foundations of Education	3
ENGL 1010	English I:Composition	3
	Freshman Foundations	1
PEAC 2000	Wellness:PE Concepts/ Fitness Course	1
PEPR 1005	Intro to Physical Education	2
<b>Total 14</b>		

# Programs of Instruction

Spring Semester		Credit
CO/M 2010	Public Speaking	3
COSC 1200	Computer Information Systems	3
	Physical Education Activity	1
PSYC 1000	General Psychology	3
	Constitutional Requirements	3
	Arts & Humanities	3
<b>Total 16</b>		

## SOPHOMORE YEAR

Fall Semester		Credit
FCSC 1141	Principles of Nutrition	3
MATH 1000	Problem Solving	3-4
or MATH 1400	Pre-Calculus Algebra	
ZOO 2015	Human Anatomy	4
HLED 1006	Personal Health	3
	Social & Cultural Awareness	3
<b>Total 16-17</b>		

Spring Semester		Credit
EDFD 2100	Educational Psychology	3
EDUC 2100	Practicum in Teaching	3
HLED 1221	Standard First Aid & Safety	2
ZOO 2025	Human Physiology	4
PEPR 2395	Physical Education	2
	Capstone Experience (Outcomes Assessment)	
<b>Total 14</b>		

Students planning to transfer to the University of Wyoming should take PSYC 2300 and EDFD 2451.

## PREPROFESSIONAL PROGRAMS

DEGREE	CREDITS
ASSOCIATE OF SCIENCE—	
PRE-DENTISTRY	
OR PRE-MEDICINE	60
PRE-VETERINARY MEDICINE	65
PRE-ALLIED HEALTH	60-61
PRE-NURSING	60-61
PRE-PHARMACY	61

The pre-professional curricula are designed to meet the requirements of the major institutions offering professional programs in these fields and can be varied if necessary to meet special requirements of specific professional schools. It is recommended that students contact the college to which they plan to transfer and secure direct information concerning their particular degree requirements.

Students must complete all program requirements, including approved electives, with a “C” or better.

\*\*The State of Wyoming has entered into a regional compact (Western Interstate Commission for Higher Education—WICHE) which provides education in disciplines not available in the state. Students who are residents of Wyoming desiring entrance to one of the colleges in the thirteen cooperating states should contact the WICHE certifying officer at the University of Wyoming for additional information.

## PRE-DENTISTRY OR PRE-MEDICINE

### FRESHMAN YEAR

Fall Semester		Credit
BIOL 1010	General Biology I	4
CHEM 1020	General Chemistry I	4
ENGL 1010	English I: Composition	3
MATH 2200	Calculus I	4
	Freshman Foundations	1
<b>Total 16</b>		

Spring Semester		Credit
BIOL 2020	General Biology II	4
CHEM 1030	General Chemistry II	4
ENGL 2020	Introduction to Literature	3
or CO/M 2010	Public Speaking	
PSYC 1000	General Psychology	3
<b>Total 14</b>		

### SOPHOMORE YEAR

Fall Semester		Credit
	Constitutional Requirements	3
ZOO 2015	Human Anatomy	4
CHEM 2320	Organic Chemistry I	4
or PHYS 1110	General Physics I	
	Physical Education Activity	1
AMST 2110	Cultural Diversity in America	3
<b>Total 15</b>		

Spring Semester		Credit
ZOO 2025	Human Physiology	4
CHEM 2340	Organic Chemistry II	4
or PHYS 1120	General Physics II	
MOLB 2220	Pathogenic Microbiology	4
SOSC 2300	Ethics in Practice	3
	Outcomes Assessment: Portfolio/Rubrics Based Assessment	
<b>Total 15</b>		

# Programs of Instruction

## PRE-VETERINARY MEDICINE

Students should plan their science/math elective choices to the requirements of their selected transfer institution.

### FRESHMAN YEAR

Fall Semester		Credit
BIOL 1010	General Biology I	4
CHEM 1020	General Chemistry I	4
ENGL 1010	English I:Composition	3
	Freshman Foundations	1
MATH 1400	Pre-Calculus Algebra	4
		<b>Total 16</b>

Spring Semester		Credit
ENGL 2020	Introduction to Literature	3
or CO/M 2010	Public Speaking	
	Constitutional Requirements	3
	Social & Cultural Awareness	3
	*Science/Math Electives	8
		<b>Total 17</b>

### SOPHOMORE YEAR

Fall Semester		Credit
	Physical Education Activity	1
	Arts & Humanities	3
	*Science/Math Electives	12
		<b>Total 16</b>

Spring Semester		Credit
	*Science/Math Electives	16
	Outcomes Assessment:	
	Portfolio/Rubrics	
	Based Assessment	
		<b>Total 16</b>

**\*Science/Math Electives must be selected from the following list:**

BIOL 2020	General Biology II	4
CHEM 1030	General Chemistry II	4
MATH 1405	Pre-Calculus Trigonometry	3
CHEM 2320	Organic Chemistry I	4
PHYS 1110	General Physics I	4
STAT 2050	Fundamentals of Statistics	4
CHEM 2340	Organic Chemistry II	4
PHYS 1120	General Physics II	4
MATH 2200	Calculus I	4

## PRE-ALLIED HEALTH

This program provides students with courses needed to meet the prerequisites for the areas of Dental Hygiene, Medical Lab Tech, and Radiology Tech Programs. Additional credit hours may be required to meet pre-requisite coursework requirements for a particular transfer institution's program.

Students must complete all program requirements including approved electives with a "C" or better.

### FRESHMAN YEAR

Fall Semester		Credit
BIOL 1000	Principles of Biology	4
or BIOL 1010	General Biology I	
CHEM 1000	Introductory Chemistry	4
or CHEM 1020	General Chemistry I	
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
MATH 1400	Pre-Calculus Algebra	3-4
or MATH 1000	Problem Solving	
		<b>Total 15-16</b>

Spring Semester		Credit
ENGL 2020	Introduction to Literature	3
or CO/M 2010	Public Speaking	
PSYC 1000	General Psychology	3
	Physical Education Activity	1
	Arts & Humanities	3
	*Approved Electives	6
		<b>Total 16</b>

### SOPHOMORE YEAR

Fall Semester		Credit
	Constitutional Requirements	3
ZOO 2015	Human Anatomy	4
	*Approved Electives	7
		<b>Total 14</b>

Spring Semester		Credit
BIOL 1050	Medical Terminology	3
ZOO 2025	Human Physiology	4
	*Approved Electives	8
	Outcomes Assessment:	
	Portfolio/Rubrics Based	
	Assessment	
		<b>Total 15</b>

## Programs of Instruction

### \*Approved Electives:

CHEM 2300	Introductory Organic Chemistry	4
CO/M 2010	Public Speaking	3
COSC 1200	Computer Information Systems	3
or CMAP		
FCSC 1141	Nutrition	3
HLED 1221	Standard First Aid & Safety	2
MATH 1405	Pre-Calculus Trigonometry	3
MOLB 2220	Pathogenic Microbiology	4
PHYS 1110	General Physics I	4
SOC 1000	Sociological Principles	3
SOSC 2300	Ethics in Practice	3
STAT 2050	Fundamentals of Statistics	4

### PRE-NURSING

This program provides students with the courses that meet the prerequisites for four-year (BSN) nursing programs at UW and UNMC. Those students preparing for a 2 year (ADN) program should consult with a pre-nursing advisor concerning courses that meet requirements for the school to which they intend to transfer.

Students must complete all program requirements including approved electives with a "C" or better.

#### FRESHMAN YEAR

Fall Semester		Credit
BIOL 1000	Principles of Biology	4
or BIOL 1010	General Biology I	
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
MATH 1000	Problem Solving	3-4
or MATH 1400	Pre-Calculus Algebra	
SOC 1000	Sociological Principles	3
	Physical Education Activity	1
<b>Total 15-16</b>		

Spring Semester		Credit
ENGL 2020	Introduction to Literature	3
or CO/M 2010	Public Speaking	
	Constitutional Requirements	3
CHEM 1000	Introductory Chemistry	4
PSYC 1000	General Psychology	3
	Social & Cultural Awareness	3
<b>Total 16</b>		

#### SOPHOMORE YEAR

Fall Semester		Credit
ZOO 2015	Human Anatomy	4
FCSC 1140	Nutrition	3
or FCSC 1141	Principles of Nutrition	
	Arts & Humanities	3
	*Approved Electives	3-4
<b>Total 13-14</b>		

Spring Semester		Credit
EDFD 2450	Lifetime Human Development	3
MOLB 2220	Pathogenic Microbiology	4
ZOO 2025	Human Physiology	4
STAT 2050	Fundamentals of Statistics	4
	Outcomes Assessment: Portfolio/Rubrics Based Assessment	
<b>Total 15</b>		

### \*Approved Electives:

SOSC 2300	Ethics in Practice	3
FCSC 2121	Child Development	4
BIOL 1050	Medical Terminology	3
CO/M 1030	Interpersonal Communication	3
COSC/CMAP(Computer Elective Courses)		
HLTK 1510	Nurse Assistant	4

### PRE-PHARMACY

This recommended program fulfills the first two years of a pharmacy curriculum. Students interested in transferring to a specific school of pharmacy should plan their second pre-professional year using the transfer institution's catalog.

Students must complete all program requirements, including approved electives, with a "C" or better.

#### FRESHMAN YEAR

Fall Semester		Credit
BIOL 1010	General Biology I	4
CHEM 1020	General Chemistry I	4
ENGL 1010	English I: Composition	3
	Freshman Foundation	1
	Physical Education Activity	1
<b>Total 13</b>		

# Programs of Instruction

Spring Semester		Credit
POLS 1000	American & Wyoming Government	3
BIOL 2020	General Biology II	4
CHEM 1030	General Chemistry II	4
ENGL 2020	Introduction to Literature	3
or CO/M 2010	Public Speaking	
	Social & Cultural Awareness	3
		<b>Total 17</b>

## SOPHOMORE YEAR

Fall Semester		Credit
MATH 2200	Calculus I	4
ZOO 2015	Human Anatomy	4
CHEM 2320	Organic Chemistry I	4
	Arts & Humanities	3
		<b>Total 15</b>

Spring Semester		Credit
ZOO 2025	Human Physiology	4
CHEM 2340	Organic Chemistry II	4
MOLB 2220	Pathogenic Microbiology	4
STAT 2050	Fundamentals of Statistics	4
	Outcomes Assessment: Portfolio/Rubrics Based Assessment	
		<b>Total 16</b>

## SOCIAL SCIENCE ASSOCIATE

DEGREE	CREDITS
ASSOCIATE OF ART	60

A major in Social Science offers a broad based degree that can lead to a variety of careers in government, law, education, business, social or counseling work, or international relations. The Social Science program at Eastern Wyoming College is designed to provide the student with core knowledge in such areas as History, Political Science, Psychology and Sociology.

Students must complete all program requirements, including approved electives, with a grade of "C" or better.

## FRESHMAN YEAR

Fall Semester		Credit
ENGL 1010	English I: Composition	3
PSYC 1000	General Psychology	3
or SOC 1000	Sociological Principles	
MATH 1000	Problem Solving	3-4
or MATH 1400	College Algebra	
	Freshman Foundations	1
	Physical Education Activity	1
	*Approved Electives	3
		<b>Total 14-15</b>

Spring Semester		Credit
	Communication 2	3
	Arts & Humanities	3
	*Approved Electives	9
		<b>Total 15</b>

## SOPHOMORE YEAR

Fall Semester		Credit
	Lab Science	4
	Constitutional Requirements	3
	Program Electives	8
		<b>Total 15</b>

Spring Semester		Credit
	Social & Cultural Awareness	3
	Program Electives	4
SOSC 2395	Social Science Capstone	
	Experience	1
	*Approved Electives	8
		<b>Total 16</b>

### Program Electives – Take any course with the following prefixes:

AMST, ANTH, CO/M, ECON, GEOG, HIST, INST, PHIL, POLS, PSYC, RELI, SOC, SOSC, SOWK, SPAN, WMST, STAT

\*Approved electives: Any course at the 1000 or above level.

Students interested in pursuing a degree in Psychology or Sociology at a transfer institution are advised to take at least 12 hours of either Psychology or Sociology and the following:

CO/M 2010 Public Speaking

2 Lab Science Electives

or 1 Lab Science and STAT 2050 or STAT 2070

Students interested in pursuing a degree in History at a transfer institution are advised to take at least 12 hours of History including some of the following electives: HIST 1110, HIST 1120, HIST 1211, HIST 1221, HIST 1290, HIST 2290, ECON 1010, ECON 1020, GEOG 1000 and STAT 2050 or STAT 2070.

Students interested in pursuing a degree in Political Science at a transfer institution are advised to take at least 12 hours of Political Science and History electives and STAT 2050 or STAT 2070.

# Programs of Instruction

## STATISTICS

DEGREE	CREDITS
ASSOCIATE OF SCIENCE	60

Students must complete all program requirements, including approved electives, with a grade of "C" or better.

### FRESHMAN YEAR

Fall Semester		Credit
ECON 1010	Macroeconomics	3
ENGL 1010	English I: Composition	3
	Freshman Foundations	1
MATH 2200	Calculus I	4
	Physical Education Activity	1
	Constitutional Requirements	3
	<b>Total</b>	<b>15</b>

Spring Semester		Credit
ECON 1020	Microeconomics	3
ENGL 2020	Introduction to Literature	3
MATH 2205	Calculus II	5
STAT 2050	Fundamentals of Statistics	4
	<b>Total</b>	<b>15</b>

### SOPHOMORE YEAR

Fall Semester		Credit
ACCT 1010	Principles of Accounting I	3
MATH 2210	Calculus III	5
	Arts & Humanities	3
	Lab Science	4
	<b>Total</b>	<b>15</b>

Spring Semester		Credit
ACCT 1020	Principles of Accounting II	3
BADM 2010	Business Law I	3
MATH 2250	Elementary Linear Algebra	3
or MATH 2310	Differential Equations	
IMGT 2400	Introduction to Information Management	3
CO/M 2010	Public Speaking	3
	Outcomes Assessment: Departmental Exam	
	<b>Total</b>	<b>15</b>

## VETERINARY TECHNOLOGY

DEGREE	CREDITS
ASSOCIATE OF APPLIED SCIENCE	62-63

CERTIFICATE - VETERINARY AIDE 30

All Veterinary Technology students will be required to take the HOAE exam prior to enrollment into the program. Students with scores falling below the categories identified on page 15 will be considered on an individual basis by the veterinary technology staff, which may include an interview.

It is preferred that students take the HOAE exam at Eastern Wyoming College. However, arrangements may be made for off-site testing on an individual basis. For more information about the HOAE, contact the Center for Testing and Career Services at (307)532.8288.

(HOAE -- Health Occupations Aptitude Exam)

Criminal background checks (VTTK 2005 Pre-Screen for Veterinary Technology) are required prior to entry into this program. The background check covers sexual offender information, general criminal history, and adult and child neglect information.

Many Veterinary Technology courses within the program require working with animals; therefore, completion of VTTK 0005 Pre-exposure Rabies Vaccination series is required.

Veterinary Technology comprises an aggregate of techniques and skills required in the practice of Veterinary Medicine. Professional veterinary technicians work under the direction of a licensed veterinarian. They do not diagnose, prognose, prescribe treatments or perform surgical operations.

Technicians work at veterinary hospitals, colleges, and laboratories. They may work for private individuals and institutions or they may be employed by federal or state agencies that are responsible for protecting animal health and welfare. The work may include cleaning and sterilizing equipment, performing diagnostic tests, feeding and caring for animals, restraining animals for treatment, administering anesthetics, assisting in surgery, monitoring anesthetized

## Programs of Instruction

patients, collecting of samples for diagnostic purposes, maintaining and repairing equipment, obtaining diagnostic images and assisting in office procedures. The technician may be employed to perform a single procedure in a specialized area or a broad spectrum of procedures in a generalized practice.

The primary objectives are to qualify students to perform those techniques required in the operation of a general veterinary practice exclusive of diagnosis, prognosis, prescription, and surgery and to pass examinations that may be required for licensing in certain states.

Students must complete all program requirements, including approved electives with a "C" or better.

### FRESHMAN YEAR

Fall Semester		Credit
VTTK 0005	Pre-Exposure Rabies Vaccination	0
VTTK 1001	Animal Care I Lab Science*	4
VTTK 1000	Issues in Veterinary Medicine	1
VTTK 1500	Orientation to Veterinary Technology	3
VTTK 1700	Medical Terminology	2
VTTK 1751	Pharmaceutical Calculations	3
VTTK 2005	Communication I	3
VTTK 2005	Prescreen for Veterinary Technology	0
<b>Total</b>		<b>16</b>

Spring Semester		Credit
VTTK 1002	Constitutional Requirement	2-3
VTTK 1002	Animal Care II	0
VTTK 1600	Clinical Procedures	3
VTTK 1630	Veterinary Hematology	3
VTTK 1750	Veterinary Pharmacology	4
VTTK 2615	Anatomy and Physiology of Domestic Animals I/II	3
VTTK 1625	Laboratory Analysis	1
<b>Total</b>		<b>16-17</b>

### SOPHOMORE YEAR

Fall Semester		Credit
VTTK 2001	Animal Care III	0
VTTK 2500	Veterinary Anesthesia	3
VTTK 2610	Veterinary Infectious Diseases and Applied Diagnostics	4
VTTK 1550	Practical Surgical & Medical Experience I	3
VTTK 1755	Veterinary Parasitology	2
VTTK 2700	Laboratory and Exotic Animals	3
<b>Total</b>		<b>15</b>

Spring Semester		Credit
VTTK 2002	Animal Care IV	0
VTTK 2505	Diagnostic Imaging	2
VTTK 2550	Practical Surgical & Medical Experience II	4
VTTK 2620	Noninfectious Diseases	3
VTTK 2750	Clinical Problems	4
	Program Electives**	2
<b>Total</b>		<b>15</b>

**VTTK 2510 (Clinical Experience I, 1 credit), VTTK 2520 (Clinical Experience II, 1 credit), and VTTK 2950 (Clinical Experience III, 3 credits) to be scheduled during Fall, Spring, or Summer as determined appropriate by the advisor and the student.**

\*Lab Science requirement must be selected from the following list:

VTTK 1950	Applied Principles of Chemistry for Veterinary Technology	2
BIOL 1000	Principles of Biology	4
BIOL 1010	General Biology I	4
VTTK 1925	Applied Principles of Biology for Veterinary Technology	2
CHEM 1000	Introductory Chemistry	4
CHEM 1020	General Chemistry I	4

\*\*Program Electives: Any course at the 1000 or above level.

# Programs of Instruction

## CERTIFICATE-VETERINARY AIDE

This program prepares students to assist veterinarians, veterinary technicians, laboratory animal technicians, and/or research scientists in supportive roles. Veterinary aides work under the direction of a licensed veterinarian or research scientist; they do not diagnose, prognose, prescribe, or perform surgery. The primary job responsibilities of veterinary aides include feeding/watering animals; cleaning and disinfecting treatment areas, animal housing areas, and surgery areas; patient restraint; collecting and processing samples for laboratory diagnostics; sterilizing surgical equipment; patient preparation for surgery; routine office procedures; and inventory control. This certificate program prepares students for employment in veterinary clinics, hospitals, research institutions, or laboratories as veterinary aides or to continue their education in pursuit of an Associate of Applied Science degree in Veterinary Technology, as most credits from the certificate program will transfer directly into the Veterinary Technology program. The certificate program includes a core of courses, 60 hours of observation and clinical experience at an approved clinic or clinics, and is designed to be completed in 2 semesters.

Students must complete all program requirements, including approved electives, with a "C" or better.

FRESHMAN YEAR		
Fall Semester		Credit
VTTK 0005	Pre-Exposure Rabies Vaccination	0
VTTK 1001	**Animal Care I	0
VTTK 1000	Introduction to Veterinary Science	1
VTTK 1500	Orientation to Veterinary Technology	3
VTTK 1700	Medical Terminology	2
TECH 1005	Applied Technical Writing	3
VTTK 1510	Clinical Techniques I	3
	*Approved Program Electives	3
	<b>Total</b>	<b>15</b>

Spring Semester		Credit
VTTK 1002	**Animal Care II	0
VTTK 1950	Introductory Cellular Biology	2
VTTK 2700	Laboratory and Exotic Animals	3
VTTK 2815	Large Animal Techniques	4
VTTK 1520	Clinical Techniques II	4
	*Approved Program Electives	2
	<b>Total</b>	<b>15</b>

\*Approved Program Electives: Any course at the 1000 or above level.

\*\*Students are responsible for the animal care of housed animals. Documentation of such responsibility is contained in these non-credit classes as required by the AVMA accreditation.

For more information about this certificate program, links to occupational information, estimated program cost, normal time for program completion, median debt at program completion (if available), please visit EWC's website at: <http://ewc.wy.edu/future-students/financial-aid/career/>.

## WELDING AND JOINING TECHNOLOGY

DEGREE	CREDITS
ASSOCIATE OF APPLIED SCIENCE	60
CERTIFICATE	30
CERTIFICATE - MACHINE TOOL	30-32
CERTIFICATE - PLATE WELDING	12

## ASSOCIATE OF APPLIED SCIENCE

Welders are skilled people who like to work with their hands. A welder can find work almost anywhere from the smallest shop down the street to the largest industrial complex in our major cities. All hard goods manufactured make extensive use of welding in building cars, trucks, buses, trains, ships, aircraft, space vehicles, farm implements, and jewelry.

A graduate welder is capable of welding ferrous and nonferrous metals in all positions and can operate shears, drills, and power tools. A welder is competent in layout, cutting, and forming metals and determining electrodes and filler metal to be used. They must know how to work from blueprints and written procedures and know welding symbols. The welding program at Eastern Wyoming College is centered in the Mechanical Arts Building and is set up as close to industry as is possible. Each student is



# Programs of Instruction

assigned a welding machine, table, and positioner. Discussion of safety rules, regulations, and safe use of equipment are included in the curriculum.

The objectives of the program are to enable the student to meet entry-level requirements for employment, build a basis for further study, and for lifelong learning in the metal working trades. Students will study both the theory and practice of shielded metal arc welding, oxyacetylene welding, gas tungsten arc welding, gas metal arc welding, and flux cored arc welding. Technical aspects of the above processes are taught with emphasis on plate and pipe welding of mild steel, stainless steel, and aluminum. Flat, horizontal, vertical, and overhead positions are covered in each area. The theory and practice of mechanical and manual cutting with oxyacetylene and air carbon arc cutting and gouging, joint design, preparation and layout of plate and pipe are also included in the program.

Students will be required to qualify in each of the processes listed above. Specimens completed will be examined and tested in the testing lab using one or more of the following test methods: dye penetrant, macroetch, guided bend, and tensile test. All testing will be done in accordance with the American Welding Society Structural Welding Code D1.1; The American Society of Mechanical Engineers, Section IX of Boiler and Pressure Vessel Code; and The American Petroleum Institute Standard for Welding Pipelines. Eastern Wyoming College is an AWS Accredited Test Center.

Students must complete all program requirements, including approved electives, with a "C" or better.

FRESHMAN YEAR		
Fall Semester		Credit
	Freshman Foundations	1
WELD 1700	General Welding	3
WELD 1755	Shielded Metal Arc Welding	5
WELD 1773	GMAW	2
WELD 2670	Welding Inspection	3
<b>Total</b>		<b>14</b>

Spring Semester		Credit
MCHT 1500	General Machine Shop	2
WELD 1650	Print Reading: Welding Symbols	3
WELD 1760	Advanced Shielded Metal Arc Welding	4
WELD 1772	FCAW	2
WELD 2680	Welding Metallurgy	3
ENTK 2501	Intro to Computer Aided Drafting	
or ENTK 1510	Drafting I	1
<b>Total</b>		<b>15</b>

SOPHOMORE YEAR		
Fall Semester		Credit
	Communication 1	3
MATH 1515	Applied Technical Mathematics or higher level math	3
POLS 1050	Basics in U.S. and WY Government	2
WELD 1780	GTAW-Plate	3
WELD 2500	Structural Welding	5
<b>Total</b>		<b>16</b>

Spring Semester		Credit
HLED 1221	Standard First Aid & Safety	2
MCHT 1610	Machine Tool Technology I	2
ELTR 1515	Electrical Concepts	2
WELD 2510	Pipe Welding I	4
WELD 2520	Pipe Welding II	5
Outcomes Assessment: National Competency Test in Welding		
<b>Total</b>		<b>15</b>

## CERTIFICATE-WELDING AND JOINING TECHNOLOGY

Students must complete all program requirements, including approved electives, with a "C" or better.

FRESHMAN YEAR		
Fall Semester		Credit
	Freshman Foundations	1
SAFE 1510	Industrial Safety	1
WELD 1700	General Welding	3
WELD 1755	Shielded Metal Arc Welding	5
WELD 1773	GMAW	2
WELD 2670	Welding Inspection	3
<b>Total</b>		<b>15</b>

## Programs of Instruction

<b>Spring Semester</b>		<b>Credit</b>
MCHT 1500	General Machine Shop	2
WELD 1650	Print Reading: Welding Symbols	3
WELD 1760	Advanced Shielded Metal Arc Welding	4
WELD 1772	FCAW	2
WELD 2680	Welding Metallurgy	3
ENTK 2501	Intro to Computer Aided Drafting I	
or ENTK 1510	Drafting I Outcomes Assessment: National Competency Test in Welding	1
<b>Total 15</b>		

For more information about this certificate program, links to occupational information, estimated program cost, normal time for program completion, median debt at program completion (if available), please visit EWC's website at: <http://ewc.wy.edu/future-students/financial-aid/career/>.

### CERTIFICATE - MACHINE TOOL TECHNOLOGY

Students must complete all program requirements including approved electives with a grade of "C" or better.

<b>FRESHMAN YEAR</b>		<b>Credit</b>
<b>Fall Semester</b>		
ENTK 2501	Freshman Foundations Intro to Computer Aided Drafting I	1
MCHT 1500	General Machine Shop	2
MCHT 1610	Machine Tool Technology	2
TECH 1005	Applied Technical Writing	3
SAFE 1510	Industrial Safety Constitutional Requirements	1
WELD 1700	General Welding	3
<b>Total 15-16</b>		

<b>Spring Semester</b>		<b>Credit</b>
MCHT 1620	Machine Tool Technology II	3
ENTK 2506	Intro to Computer Aided Drafting II	1
WELD 1650	Print Reading	3
MATH 1515	Applied Technical Math	3
AGTK 1810	Hydraulics Outcomes Assessment: Project Electives	3
<b>Total 15-16</b>		

For more information about this certificate program, links to occupational information, estimated program

cost, normal time for program completion, median debt at program completion (if available), please visit EWC's website at: <http://ewc.wy.edu/future-students/financial-aid/career/>.

### CERTIFICATE - PLATE WELDING

This program will enable a student to meet entry level requirements for employment as a plate welder and build a basis for further study and lifelong learning in the metal working trades.

Students must complete all program requirements, including approved electives, with a "C" or better.

<b>FRESHMAN YEAR</b>		<b>Credit</b>
<b>Fall Semester</b>		
WELD 1755	Shielded Metal Arc Welding	5
WELD 1773	Gas Metal Arc Welding	2
WELD 1772	Flux Core Arc Welding	2
WELD 1650	Print Reading & Welding Symbols	3
<b>Total 12</b>		

Federal Financial Aid is not available for this certificate program.

### WILDLIFE AND FISHERIES BIOLOGY AND MANAGEMENT

<b>DEGREE</b>	<b>CREDITS</b>
ASSOCIATE OF SCIENCE	61

The basic curriculum will give students a liberal education and serve as a broad foundation upon which they can build for positions in various state and federal agencies which are concerned with the utilization, investigation, and administration of the nation's wildlife resources.

Students must complete all program requirements, including approved electives, with a "C" or better.

<b>FRESHMAN YEAR</b>		<b>Credit</b>
<b>Fall Semester</b>		
BIOL 1010	General Biology I	4
CHEM 1020	General Chemistry I	4
ENGL 1010	English I:Composition Freshman Foundations	3
MATH 1400	Pre-Calculus Algebra	4
<b>Total 16</b>		

# Programs of Instruction

<b>Spring Semester</b>		<b>Credit</b>
CO/M 2010	Public Speaking	3
BIOL 2020	General Biology II	4
CHEM 2300	Introductory Organic Chemistry	4
MATH 1405	Pre-Calculus Trigonometry	3
<b>Total</b>		<b>14</b>

## **SOPHOMORE YEAR**

<b>Fall Semester</b>		<b>Credit</b>
MATH 2200	Calculus I	4
PHYS 1110	General Physics I	4
COSC 1200	Computer Information Systems	3
	Physical Education Activity	1
ZOO 2450	Principles of Fish and Wildlife Management	3
<b>Total</b>		<b>15</b>

<b>Spring Semester</b>		<b>Credit</b>
STAT 2050	Fundamentals of Statistics	4
REWM 2000	Principles of Range Management	3
	Arts & Humanities	3
	Social & Cultural Awareness	3
	Constitutional Requirements	3
	Outcomes Assessment: Portfolio/ Rubrics Based Assessment	
<b>Total</b>		<b>16</b>