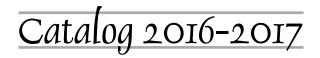


Laramie County Community College



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Serving Southeast Wyoming

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Laramie County Community College is committed to providing a safe and nondiscriminatory educational and employment environment. The college does not discriminate on the basis of race, color, national origin, sex, disability, religion, age, veteran status, political affiliation, sexual orientation or other status protected by law. Sexual harassment, including sexual violence, is a form of sex discrimination prohibited by Title IX of the Education Amendments of 1972. The college does not discriminate on the basis of sex in its educational, extracurricular, athletic or other programs or in the context of employment.

The College has a designated person to monitor compliance and to answer any questions regarding the college's non-discrimination policies. Please contact: Title IX and ADA Coordinator, Room 205B, Clay Pathfinder Building, 1400 E College Drive, Cheyenne, WY 82007, 307.778.1217, TitleIX_ADA.Coordinator@lccc.wy.edu. 3/2016

The Disability Support Services provides this publication in an alternative format upon request.

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Dec. 25-jan. 2 winter Break (college Closed)		
	Dec. 23-Jan. 2	winter Break (college closed)

Spring Semester 2017

Spring St	
Jan. 3	Spring Tuition Payments Due (after this date, payment is due upon registration)
Jan. 9	Administrative Drop for Nonpayment
Jan. 9–13	College In-Service
Jan. 16	Martin Luther King/Equality Day (college closed)
Jan. 16	Last Day to Register A Block (A16, A8)
Jan. 17	Spring Semester A Block (A16, A8) Classes Begin
Jan. 23	Last Day to Drop Without Receiving a W on
	Transcripts and to receive a 100% refund (A8)
Jan. 29	Last Day to Register B Block (B14)
Jan. 30	First Day of Classes B Block (B14)
Jan. 30	Last Day to Drop Without Receiving a W on
	Transcripts and to receive a 100% refund (A16)
Jan. 30	End of 50% Refund Period (A8)
Jan. 31	First Financial Aid Disbursement
Feb. 6	End of 50% Refund Period (A16)
Feb. 9	Last Day to Drop Without Receiving a W on Transcripts and to receive a 100% refund (B14)
Feb. 10	Midterm (A8)
Feb. 10	2017 Spring Graduation Applications Due
Feb. 12	Last Day to Register B Block (B12)
Feb. 13	First Day of Classes (B12)
Feb. 16	End of 50% Refund Period (B14)
Feb. 20	Last Day to Withdraw (A8)
Feb. 21	Last Day to Drop Without Receiving a W on Transcripts and to receive a 100% refund (B12)
Feb. 28	End of 50% Refund Period (B12)
March 10	Midterm (A16)
March 10	Last Day of Classes (A8)
March 11-12	Saturday and Sunday Classes Meet this Weekend
March 13-19	Spring Break No Classes (college services available Monday through Thursday)
March 17	College Closed
March 19	Last Day to Register B Block (B8)
March 20	Classes Resume
March 20	First Day of Classes (B8)
March 24	Midterm (B14)
March 24	Last Day to Drop Without Receiving a W on Transcripts and to receive a 100% refund (B8)
March 31	Midterm (B12)
March 31	End of 50% Refund Period (B8)
April 3	Last Day to Withdraw (A16)
April 4	Student and Faculty Planning Day – No Classes
April 10	Last Day to Withdraw (B14)
April 11	Summer and Fall Registration Begins for Currently Enrolled Students
April 14	Midterm (B8)
April 17	Last Day to Withdraw (B12)
April 18	Summer and Fall Registration Open for All Students
April 24	Last Day to Withdraw (B8)
May 12	Last Day for Spring Semester (A16, B14, B12, B8)
May 13	Commencement
May 15	Grading Day (Grades Due by noon)

Summer Semester 2017 (May 30-August 4)

April 11	Summer Financial Aid Applications Available
May 8	Summer Tuition Payments Due (after this date,
	payment is due upon registration)
May 29	Memorial Day (college closed)
May 29	Last Day to Register for A Block (A10, A8, A5)
May 30	Summer Semester A Block (A10, A8, A5)
	Classes Begin
June l	2017 Summer Graduation Applications Due
June 2	Last Day to Drop Without Receiving a W on
× •	Transcripts and to receive a 100% refund (A5)
June 2	College Closed 12:00 – 5:00/
Inc. 5	No Classes, afternoon only
June 5	Last Day to Drop Without Receiving a W on Transcripts and to receive a 100% refund (A8)
June 6	Last Day to Drop Without Receiving a W on
June o	Transcripts and to receive a 100% refund (A10)
June 9	End of 50% Refund Period (A5)
June 11	Last Day to Register for B Block (B8)
June 12	End of 50% Refund Period (A8)
June 12	First Day of Classes B Block (B8)
June 13	First Financial Aid Disbursement
June 13	End of 50% Refund Period (A10)
June 14	Midterm (A5)
June 16	Last Day to Drop Without Receiving a W on
	Transcripts and to receive a 100% refund (B8)
June 19	Last Day to Withdraw (A5)
June 23	Midterm (A8)
June 23	End of 50% Refund Period (B8)
June 30	Midterm (A10)
June 30	Last Day of Classes (A5)
July 2	Last Day to Register B Block (B5)
July 3	First Day of Classes (B5)
July 3	Last Day to Withdraw (A8)
July 4	Independence Day (college closed)
July 7	Midterm (B8)
July 7	Last Day to Drop Without Receiving a W on
	Transcripts and to receive a 100% refund (B5)
July 10	Last Day to Withdraw (A10)
July 14	Laramie Jubilee Day (no classes/Albany County
Terber 1.4	Campus Closed)
July 14	End of 50% Refund Period (B5)
July 17 July 19	Last Day to Withdraw (B8) Midterm (B5)
	Last Day of Classes (A8)
July 21 July 25	Last Day to Withdraw (B5)
July 25	Cheyenne Day (no classes/
July 26	Cheyenne Campus Closed)
Aug. 4	Last Day of Summer Classes (A10, B8, B5)
Aug. 7	Grades Due by 9 a.m.

Calendar Blocks — Fall 2016

A16 – August 29 to December 16
Aug. 28 Last Day to Register A Block (A16)
Aug. 29 Fall Semester A Block (A16)
Classes Begin
Sept. 3-4 Saturday and Sunday Classes Do Not Meet This Weekend Prior to Labor Day
Sept. 5 Labor Day (college closed)
Sept. 12 Last Day to Drop Without Receiving a
W on Transcripts and to receive a 100% refund (A16)
Sept. 13 First Financial Aid Disbursement
Sept. 19 End of 50% Refund Period (A16)
Sept. 30 Fall 2016 Graduation Applications Due
Oct. 21 Midterm (A16)
Nov. 1 Student and Faculty Planning Day –
No Classes
Nov. 4 Last Day to Withdraw (A16)
Nov. 8 Spring Registration Begins for
Currently Enrolled Students
Nov. 15 Spring Registration Open for All Students
Nov. 23-27 Thanksgiving Holiday (college closed)
Nov. 28 Classes Resume
Dec. 16 Last Day of Fall Semester (A16)
Dec. 19 Grading Day (Grades Due by noon)
Dec. 23-Jan. 2 . Winter Break (college closed)

A8 – August 29 to October 21

Aug. 28 Last Day to Register A Block (A8)
Aug. 29 Fall Semester A Block (A8) Classes Begin
Sept. 2 Last Day to Drop Without Receiving a
W on Transcripts and to receive a 100% refund (A8)
Sept. 3-4 Saturday and Sunday Classes Do Not Meet
This Weekend Prior to Labor Day
Sept. 5 Labor Day (college closed)
Sept. 12 End of 50% Refund Period (A8)
Sept. 13 First Financial Aid Disbursement
Sept. 23 Midterm (A8)
Sept. 30 Fall 2016 Graduation Applications Due
Oct. 3 Last Day to Withdraw (A8)
Oct. 21 Last Day of Classes (A8)

B14 – September 12 to December 16 Sept. 11. Last Day to Register B Block (B14) Sept. 12. First Day of Classes (B14) Sept. 13..... First Financial Aid Disbursement Sept. 22. Last Day to Drop Without Receiving a W on Transcripts and to receive a 100% refund (B14) Sept. 29. End of 50% Refund Period (B14) Sept. 30. Fall 2016 Graduation Applications Due Oct. 28 Midterm (B14) Nov. 1 Student and Faculty Planning Day – No Classes Nov. 8 Spring Registration Begins for **Currently Enrolled Students** Nov. 9 Last Day to Withdraw (B14) Nov. 15 Spring Registration Open for All Students Nov. 23-27.... Thanksgiving Holiday (college closed) Nov. 28 Classes Resume

Dec. 16 Last Day of Fall Semester (**B14**) Dec. 19 Grading Day (Grades Due by noon) Dec. 23-Jan. 2 . Winter Break (college closed)

B12 – September 26 to December 16

Sept. 25 Last Day to Register B Block (B12)
Sept. 26 First Day of Classes (B12)
Sept. 30 Fall 2016 Graduation Applications Due
Oct. 4 Last Day to Drop Without Receiving a
W on Transcripts and to receive a 100%
refund (B12)
Oct. 11 End of 50% Refund Period (B12)
Nov. 1 Student and Faculty Planning Day –
No Classes
Nov. 4 Midterm (B12)
Nov. 8 Spring Registration Begins for
Currently Enrolled Students
Nov. 15 Last Day to Withdraw (B12)
Nov. 15 Spring Registration Open for All Students
Nov. 23-27 Thanksgiving Holiday (college closed)
Nov. 28 Classes Resume
Dec. 16 Last Day of Fall Semester (B12)
Dec. 19 Grading Day (Grades Due by noon)
Dec. 23-Jan. 2. Winter Break (college closed)

B8 – October 24 to December 16

Oct. 23 Last Day to Register B Block (B8)
Oct. 24 First Day of Classes (B8)
Oct. 28 Last Day to Drop Without Receiving a W on
Transcripts and to receive a 100% refund (B8)
Nov. 1 Student and Faculty Planning Day –
No Classes
Nov. 4 End of 50% Refund Period (B8)
Nov. 8 Spring Registration Begins for
Currently Enrolled Students
Nov. 15 Spring Registration Open for All Students
Nov. 18 Midterm (B8)
Nov. 23-27 Thanksgiving Holiday (college closed)
Nov. 28 Classes Resume
Nov. 28 Last Day to Withdraw (B8)
Dec. 16 Last Day of Fall Semester (B8)
Dec. 19 Grading Day (Grades Due by noon)
Dec. 23-Jan. 2 . Winter Break (college closed)
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Calendar Blocks — Spring 2017

A16 – January 17 to May 12 Jan. 16 Last Day to Register A Block (A16) Jan. 17 Spring Semester A Block (A16) Classes Begin
Jan. 17 Spring Semester A Block (A16) Classes Begin
Jan. 30 Last Day to Drop Without Receiving a W on
Transcripts and to receive a 100% refund (A16)
Jan. 31 First Financial Aid Disbursement
Feb. 6 End of 50% Refund Period (A16)
Feb. 10 2017 Spring Graduation Applications Due
March 10 Midterm (A16)
March 11-12 Saturday and Sunday Classes Meet this
Weekend
March 13-19 Spring Break No Classes (college services
available Monday through Thursday)
March 17 College Closed
March 20 Classes Resume
April 3 Last Day to Withdraw (A16)
April 4 Student and Faculty Planning Day – No Classes
April 11 Summer and Fall Registration Begins for
Currently Enrolled Students
April 18 Summer and Fall Registration
Open for All Students
May 12 Last Day for Spring Semester (A16)
May 13 Commencement
May 15 Grading Day (Grades Due by noon)

A8 – January 17 to March 10

Jan. 16 Last Day to Register A Block (A8)
Jan. 17 Spring Semester A Block (A8) Classes Begin
Jan. 23 Last Day to Drop Without Receiving a W on
Transcripts and to receive a 100% refund (A8)
Jan. 30 End of 50% Refund Period (A8)
Jan. 31 First Financial Aid Disbursement
Feb. 10 Midterm (A8)
Feb. 10 2017 Spring Graduation Applications Due
Feb. 20 Last Day to Withdraw (A8)
March 10 Last Day of Classes (A8)

B14 – January 30 to May 12

Jan. 29 Last Day to Register B Block (B14)
Jan. 30 First Day of Classes B Block (B14)
Jan. 31 First Financial Aid Disbursement
Feb. 9 Last Day to Drop Without Receiving a W on
Transcripts and to receive a 100% refund (B14)
Feb. 10 2017 Spring Graduation Applications Due
Feb. 16 End of 50% Refund Period (B14)
March 11-12 Saturday and Sunday
Classes Meet this Weekend
March 13-19 Spring Break No Classes (college services
available Monday through Thursday)
March 17 College Closed
March 20 Classes Resume
March 24 Midterm (B14)
April 4 Student and Faculty Planning Day – No Classes
April 10 Last Day to Withdraw (B14)
April 11 Summer and Fall Registration Begins for
Currently Enrolled Students
April 18 Summer and Fall Registration
Open for All Students
May 12 Last Day for Spring Semester (B14)
May 13 Commencement
May 15 Grading Day (Grades Due by noon)

B12 – February 13 to May 12
Jan. 31 First Financial Aid Disbursement
Feb. 10 2017 Spring Graduation Applications Due
Feb. 12 Last Day to Register B Block (B12)
Feb. 13 First Day of Classes (B12)
Feb. 21 Last Day to Drop Without Receiving a W on
Transcripts and to receive a 100% refund (B12)
Feb. 28 End of 50% Refund Period (B12)
March 11-12 Saturday and Sunday Classes Meet this Weekend
Weekend
March 13-19 Spring Break No Classes (college services
available Monday through Thursday)
March 17 College Closed
March 20 Classes Resume
March 31 Midterm (B12)
April 4 Student and Faculty Planning Day – No Classes
April 11 Summer and Fall Registration Begins for
Currently Enrolled Students
April 17 Last Day to Withdraw (B12)
April 18 Summer and Fall Registration
Open for All Students
May 12 Last Day for Spring Semester (B12)
May 13 Commencement
May 15 Grading Day (Grades Due by noon)

B8 – March 20 to May 12

Jan. 31 First Financial Aid Disbursement
Feb. 10 2017 Spring Graduation Applications Due
March 11-12 Saturday and Sunday
Classes Meet this Weekend
March 13-19 Spring Break No Classes (college services
available Monday through Thursday)
March 17 College Closed
March 19 Last Day to Register B Block (B8)
March 20 Classes Resume
March 20 First Day of Classes (B8)
March 24 Last Day to Drop Without Receiving a W on
Transcripts and to receive a 100% refund (B8)
March 31 End of 50% Refund Period (B8)
April 4 Student and Faculty Planning Day – No Classes
April 11 Summer and Fall Registration Begins for
Currently Enrolled Students
April 14 Midterm (B8)
April 18 Summer and Fall Registration
Open for All Students
April 24 Last Day to Withdraw (B8)
May 12 Last Day for Spring Semester (B8)
May 13 Commencement
May 15 Grading Day (Grades Due by noon)

Calendar Blocks — Summer 2017 (May 30-August 4)

A10 – May 30 to August 4
May 29 Last Day to Register for A Block (A10)
May 30 Summer Semester A Block (A10) Classes Begin
June 1 2017 Summer Graduation Applications Due
June 2 College Closed 12:00 – 5:00/No Classes,
afternoon only
June 6 Last Day to Drop Without Receiving a W on
Transcripts and to receive a 100% refund (A10)
June 13 First Financial Aid Disbursement
June 13 End of 50% Refund Period (A10)
June 30 Midterm (A10)
July 4 Independence Day (college closed)
July 10 Last Day to Withdraw (A10)
July 14 Laramie Jubilee Day (no classes/
Albany County Campus Closed)
July 27 Cheyenne Day
(no classes/Cheyenne Campus Closed)
Aug. 4 Last Day of Summer Classes (A10)
Aug. 7 Grades Due by 9 a.m.

A5 – May 30 to June 30

	May 29 Last Day to Register for A Block (A5)
	May 30 Summer Semester A Block (A5) Classes Begin
	June 1 2017 Summer Graduation Applications Due
	June 2 Last Day to Drop Without Receiving a W on
	Transcripts and to receive a 100% refund (A5)
	June 2 College Closed 12:00 – 5:00/
	No Classes, afternoon only
	June 9 End of 50% Refund Period (A5)
	June 13 First Financial Aid Disbursement
	June 14 Midterm (A5)
	June 19 Last Day to Withdraw (A5)
	June 30 Last Day of Classes (A5)
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A8 – May 30 to July 21

May 29 Last Day to Register for A Block (A8)
May 30 Summer Semester A Block (A8) Classes Begin
June 1 2017 Summer Graduation Applications Due
June 2 College Closed 12:00 – 5:00/No Classes, afternoon only
June 5 Last Day to Drop Without Receiving a W on Transcripts and to receive a 100% refund (A8)
June 12 End of 50% Refund Period (A8)
June 13 First Financial Aid Disbursement
June 23 Midterm (A8)
July 3 Last Day to Withdraw (A8)
July 4 Independence Day (college closed)
July 14 Laramie Jubilee Day (no classes/ Albany County Campus Closed)
July 21 Last Day of Classes (A8)

B8 – June 12 to August 4

June 11 Last Day to Register for B Block (B8)
June 12 First Day of Classes B Block (B8)
June 13 First Financial Aid Disbursement
June 16 Last Day to Drop Without Receiving a W on
Transcripts and to receive a 100% refund (B8)
June 23 End of 50% Refund Period (B8)
July 4 Independence Day (college closed)
July 7 Midterm (B8)
July 14 Laramie Jubilee Day (no classes/
Albany County Campus Closed)
July 17 Last Day to Withdraw (B8)
July 27 Cheyenne Day (no classes/
Cheyenne Campus Closed)
Aug. 4 Last Day of Summer Classes (B8)
Aug. 7 Grades Due by 9 a.m.

B5 – July 3 to August 4

by July 5 to August 4
July 2 Last Day to Register B Block (B5)
July 3 First Day of Classes (B5)
July 4 Independence Day (college closed)
July 7 Last Day to Drop Without Receiving a W on
Transcripts and to receive a 100% refund (B5)
July 14 Laramie Jubilee Day (no classes/
Albany County Campus Closed)
July 14 End of 50% Refund Period (B5)
July 19 Midterm (B5)
July 25 Last Day to Withdraw (B5)
July 26 Cheyenne Day (no classes/
Cheyenne Campus Closed)
Aug. 4 Last Day of Summer Classes (B5)
Aug. 7 Grades Due by 9 a.m.

Laramie County Community College

Mission Statement

The Mission of Laramie County Community College is to transform our students' lives through the power of inspired learning.

We are all bound by a basic understanding that our students, regardless of how they arrive at LCCC, yearn for a better life by engaging in the process of acquiring knowledge. Thus, we are compelled to aid this transformation by offering diverse educational experiences designed to be inspirational for all those involved in the learning process. While we recognize our work is diverse, the entirety of the work we do is grounded in the four foundational elements of the comprehensive community college mission:

- 1. To prepare people to succeed academically in college-level learning (academic preparation);
- 2. To engage our students in learning activities that will prepare and advance them through the pursuit of a baccalaureate degree (transfer preparation);
- To develop individuals to enter or advance in productive, life-fulfilling occupations and professions (workforce development);
- 4. To enrich the communities we serve through activities that stimulate and sustain a healthy society and economy (community development).

Our Values

Core Values – We believe these values are inherent in the cultural fabric of the College and could not be extracted in any way.

- 1. **Passion** Our institution is wholly dedicated to engaging in our work, sharing our beliefs, and debating the merits of any course of action as we strive to transform our students' lives through inspired learning.
- 2. **Authenticity** True to our Western heritage, we are genuine to a fault, without pretense, and steadfast in our dedication to delivering on a promise, product, or need.
- 3. **Desire to Make a Difference** We engage in and pursue our goals for the opportunity to create better lives, better communities, and a better world for those who are here today and the generations that follow.

Aspirational Values – We readily admit to a mismatch between our desire for these values and their existence at the College. However, our strong commitment to these ideals will shape the actions we take to ensure their universal presence at LCCC into the future.

1. **Commitment to Quality** – Quality is found at the intersection of hard work and high standards that are consistently met. We are committed to promoting a culture

of evidence that compels us to continuously strive for greater competence and productivity while always seeking to transform students' lives through inspired learning.

- 2. **Entrepreneurship** In an uncertain era, endless opportunities await those institutions willing to take risks. Grabbing these opportunities requires informed risk-taking and innovation fostered in a safe, yet demanding, environment.
- 3. **Tolerance** As an institution, we must engage in wide-ranging, open-minded discourse with civility and objectivity grounded in what is best for our students as well as ourselves.

A Vision for LCCC

The Big Goal

Our over-arching goal is that our accomplishments as a community college will distinguish LCCC from others in the nation, in turn benefiting our communities and bringing pride to the Great State of Wyoming.

Vision Statement

In the future we are individuals united for a single purpose to transform our students' lives. Our nationally recognized, entrepreneurial, and innovative programs and services help students become the most sought after individuals. We develop world-class instructors. We are relentless in the use of evidence to make decisions that responsibly and efficiently allocate resources, drive instruction, and create an environment of adaptability and productivity. Every individual has the freedom to innovate and take informed risks based on promising practices and creative ideas. We fail fast, and learn from that failure as much as from our success. Clear academic pathways, high-touch services, and engaged employees are the bedrock of our students' success. We drive collaboration throughout the community to ensure the success of all students who come to LCCC. We are changing the world of higher education facing seemingly impossible challenges head on.

Academic Freedom Statement

One of the most fundamental values at Laramie County Community College is academic freedom, which may be defined as the freedom to learn, teach, speak, research, and publish, subject to the norms and standards of scholarly inquiry, without interference or penalty, wherever the search for truth and understanding may lead. (Adapted from Oxford University)

Board of Trustees

Formulation of the policies for Laramie County Community College is entrusted, by Wyoming law, to a seven-member Board of Trustees. The trustees are elected for terms of four years. The board meets on the third Wednesday of each month for its regular business meeting, with study sessions on the first Wednesday of each month. The expiration year for the term of office of each trustee is shown in parentheses. The Board of Trustees maintains membership in the Association of Community College Trustees and the American Association of Community Colleges.

Ed Mosher, Chairman (2016) William R. "Bill" Dubois, Vice Chairman (2016) Christine Lummis, Secretary (2016) Don Erickson, Treasurer (2016) Bradley S. Barker, III, Trustee (2018) Brenda Lyttle, Trustee (2018) Carol Merrell, Trustee (2018)

President of the College

Joe Schaffer

Laramie County Community College Foundation

Mission

The Foundation was established in 1968 to develop and sustain support for Laramie County Community College through solicitation, management, and recognition of donations. The Foundation is dedicated to providing services and assistance to students, faculty, staff and the community, thereby enhancing a sense of tradition and pride that will assist in advancing the college.

2016 LCCC Foundation Board of Directors

Anna Marie Hales, President Stig Hallingbye, Vice President Jeff Collins, Secretary Kathy Mawford, Treasurer Ron Rabou, Past President Joe Schaffer, LCCC President Billie Addleman Tom Bass Kari Brown-Herbst **Rolfe Burgess** Bill Dubois, Trustee Dan Furphy Melissa Gallant Don Heiduck Sharon Keizer Brenda Lyttle, Trustee Carol Merrell, Trustee Cindy Pomerov Edward Prosser Ann Esquibel Redman Sandra Surbrugg Lee Wagner **Bob Womack** Molly Williams

LCCC Foundation Staff

Lisa Murphy, Associate Vice President of Institutional Advancement Diane Germond, Accounting and Finance Specialist Ann Nelson, Director of Corporate Development and Major Gifts Jawnie Sanders, Administrative Assistant Lisa Trimble, Director of Alumni Affairs and Event Planning Inquiries concerning the Foundation should be directed to: LCCC Foundation

1400 East College Drive Cheyenne, Wyoming 82007 307.778.1285 Icccfoundation.edu

General Information

The College

Laramie County Community College was created by the voters on May 21, 1968, to help fill the need for academic, career and community service/continuing education in the county. Courses are offered that reflect the skills and knowledge required to function in a world that makes ever increasing demands upon the individual. The college is dedicated to helping individuals prepare for careers, enjoy community life, and enrich leisure time by providing continuing educational experiences.

To achieve these ends, Laramie County Community College provides programs in the following instructional areas: academic, preparing students for transfer to four-year institutions; career education, training students in programs up to two years in length to enter the world of work; and community education, consisting of noncredit courses and offering courses of general information, cultural opportunities, and professional and personal growth.

Laramie County Community College strives to be an educational institution for all people—whether they want to gain personal enrichment through a program of general education, to obtain a certificate of high school equivalency, to develop skills in a technical program, or to begin a college career leading to a bachelor's or higher degree.

Accreditation/Professional Associations

Laramie County Community College and its programs are accredited or approved by the following organizations:

- The Higher Learning Commission of the North Central Association of Colleges and Schools, 230 South LaSalle Street, Suite 7-500, Chicago, IL 60604-1411, 800.621.7440, info@hlcommision.org.
- American Bar Association (ABA), Standing Committee on Legal Assistants, 750 North Lake Shore Drive, Chicago, IL 60611, 312.988.5677.
- American Dental Association Commission on Dental Accreditation, 211 East Chicago Avenue, Chicago, IL 60611 2678, 312.440.4653.
- The Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 2850, Chicago, IL 60606-3182, 312.704.5300.
- National Institute for Automotive Service Excellence (ASE), 13505 Dulles Technology Drive, Herndon, VA 22071-3415, 703.742.3800.
- Accrediting Commission for Education in Nursing (ACEN). The address is the same except for the suite number which needs to be 850, 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, 404.975.5000.
- Wyoming State Board of Nursing, 1810 Pioneer Avenue, Cheyenne, WY 82001, 307.777.7601.
- Commission on Accreditation of Allied Health Education Programs (CAAHEP), 25400 U.S. Highway 19 North, Ste 158, Clearwater, FL 33763, 727.210.2350 (Emergency Medical Services–Paramedics and Surgical Technology programs).

- Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon recommendation of Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS), 2025 Woodland Drive, St Paul, MN 55125, 651.731.1582, www.jrcdms.org
- American Wind Energy Association, 1501 M Street, NW, Suite 1000, Washington D.C. 20005
- Commission on Accreditation in Physical Therapy Education (CAPTE), 111 North Fairfax Street, Alexandria, VA 22314-1488, 703.706.3245.
- The National Certified Public Manager® Consortium, 2516 Wertherson Lane, Raleigh, NC 27613-1700, 919.306.1787.

Laramie County Community College is a Cisco Academy as well as an Asymetrix Authorized Training Center. In order to provide complete services for students, the college also is a member of the following:

- North Central Association of Colleges and Schools,
- Council of North Central Community and Junior Colleges,
- American Association of Community Colleges,
- National Association for Student Personnel Administrators,
- Mountain States Association of Community Colleges,
- Rocky Mountain Association of Collegiate Registrars and Admissions Officers,
- American Association of Collegiate Registrars and Admissions Officers,
- Wyoming Admissions Officers,
- Association of College Unions-International,
- National Association for Campus Activities,
- American Association of College and University Housing Officers,
- National Academic Advising Association,
- National Association of Colleges and Employers,
- National Association of Student Financial Aid Administrators,
- Rocky Mountain Association of Student Financial Aid Administrators,
- Wyoming Association of Student Financial Aid Administrators.

College Facilities and Resources

Cheyenne Campus

1400 East College Drive, Cheyenne, WY 82007 307.778.5222 or 800.522.2993 (toll free)

Laramie County Community College occupies facilities situated on a 271-acre campus. The site is immediately southeast of Cheyenne. Primary access routes to the college are College Drive, connecting to Interstate 25 west of LCCC, and South College Drive, connecting to Interstate 80 northeast of LCCC. Numerous off-campus facilities are also utilized. The main campus consists of 23 buildings. Built with financing provided by bond issues approved in 1971, 1979, 1989, 2006, and 2013, along with state and federal mineral funds and supplemented by revenue bonds issued through the LCCC Foundation, new facilities have allowed the college to expand many programs and activities.

Albany County Campus

1125 Boulder Drive, Laramie, Wyoming 307.721.5138 or 800.522.2993, Ext. 4250 (toll free)

The Albany County Campus (ACC) of LCCC is a full-service campus – extending the lifelong educational opportunities of a community college to the residents of Albany County. Numerous degree programs, both career/technical and academic/transfer, are available through the ACC. In addition to degree programs, the ACC offers a wide variety of credit courses to help students prepare for college, complete general education requirements, or enrich their personal lives.

The Albany County Campus provides its students with support services similar to those available to the Cheyenne campus students. Academic advising, career guidance, adult re-entry assistance, and financial aid information are available. On-site High School Equivalency Certification and placement testing are provided. Student groups are active and plan several activities each semester for students and their families.

The ACC Library services are the same as those on the main campus and promote information literacy by offering library research instruction, individualized assistance with online databases and other internet applications, and interlibrary loan. The ACC Library offers a comfortable space for study and research with easy access to print and online library collections, daily newspapers, popular magazines, the student computer lab, and tutoring services from the Student Success Center. The ACC Library has a rotating McNaughton collection of bestselling fiction and nonfiction books. These popular leased books offer variety and interest without requiring permanent shelf space in the library.

The Student Computing Lab is open and staffed during the same hours as the ACC Library. In addition to 29 computer workstations, a scanner and printer are available. Two more workstations are located in the library study area.

The Student Success Center provides LCCC credit students with tutors and resources in the areas of English, math, business, language, and the sciences. Tutoring is provided on either a one-to-one or small group basis.

The Teaching and Learning Center, which is housed within the Student Success Center, provides noncredit day and evening instruction in Adult Education (AE), High School Equivalency Certification (HSEC), English Language Acquisition (ELA), Compass preparation, Career Readiness Certificate preparation, citizenship preparation, literacy, and functional academic skills. Students may register and begin classes on a 8-week rotation. Programs at the Teaching and Learning Center are designed to help students improve their functional skills in reading, writing, mathematics, English, social studies, science, and computer literacy.

F. E. Warren Air Force Base Outreach Center

Building 841, 307.773.2113

The mission of Laramie County Community College at F.E. Warren Air Force Base is to be an active partner that directly links our comprehensive community college strategic plan with the USAF Mission Support Education function. This partnership is designed to provide all Department of Defense personnel (civilian, active and Guard), along with their family members, the opportunity to attain educational objectives and enhance their job skills training. This is made possible through flexible class scheduling, offering of general education classes, and computerized testing. Testing for eCLEP and eDSST is typically offered on Tuesday and Friday mornings.

Military students may register at the Outreach Office Base Education Services, 1205 Ziemann Blvd., and Bldg #841, Office #2, from 8 a.m. to 4 p.m. daily or call 307.773.2113 for an appointment. All Air Force Base classes are also open to residents of the community.

Eastern Laramie County Outreach Center

607 Elm Street, P. O. Box 580, Pine Bluffs, WY 307.245.3595

LCCC is committed to serving Eastern Laramie County residents with classes and programs. Course offerings vary from semester to semester. Offerings include credit, continuing education, personal and professional improvement, life enrichment courses, and ELA, AE, and HSEC preparation.

Residence Halls

1340 East College Drive, Cheyenne, WY 82007 307.637.2498

Living on campus can be one of the most rewarding and enjoyable aspects of a student's college experience. It provides the best opportunity to get to know the campus, get involved in campus events and organizations, meet new people, and make new friends. There are many fun and rewarding activities in the residence halls, plus the convenience of being close to classes and other campus resources.

LCCC's residence halls offer four-person suites; two- and four-person private bedroom suites; and one-person, private, super-single rooms. These halls have an overall capacity of 276 students.

The four-person suites in the east and north halls are similar to the west residence hall, with two bedrooms in each suite as well as a shared common area. Each bedroom houses two students and includes a private bathroom. Private bedroom suites are available in two-person and four-person units. Each student has a private bedroom with closet, desk and dresser, and shares a bathroom with one suitemate. Private bedroom suites also have a shared common area with a living room and kitchenette.

A few private, super-single rooms are available in the east residence halls. These rooms have all the amenities of the larger suites, including single bed, desk, dresser, and seating area, as well as a kitchenette area and private bathroom. All rooms in these halls are air conditioned.

Direct internet access and cable TV access are included in all residence hall bedrooms. If students would like telephone lines set up in the rooms, they need to contact the Director of Residential Living.

The commons, serving students living on campus, is a gathering place for residents of all halls to enjoy. The commons offers a computer lab, TV lounge, study areas, fireplace, lounge, laundry facilities, serving room, classroom, vending machines, and mail delivery services.

The LCCC Residential Living and Learning Office is located in the community center, serving all halls.

Ludden Library & Learning Commons

307.778.1205 (circulation desk); 307.778.1206 (information desk); libref@lccc.wy.edu (email)

The Ludden Library & Learning Commons integrates print and electronic resources, technology, services and a knowledgeable staff to support student learning. With a physical collection of almost 60,000 items and electronic subscriptions more than 200 research databases, the library strives to meet the research needs of LCCC students. The online catalog provides access to the Ludden Library & Learning Commons collection and library collections throughout the state. Students are encouraged to ask the library staff how to order books from other libraries (interlibrary loan). Online databases provide immediate access to full-text articles, e-books, streaming video and music for on-campus and remote users.

The library offers an inviting atmosphere, including computer workstations, study rooms, media viewing areas, anatomy models and laptops for checkout. Copying, scanning, faxing, and laminating capabilities are also available. Formal library instruction is provided in classes, and knowledgeable and welcoming library staff members are always ready to offer one-on-one assistance to students. Contact the staff with any questions regarding how to access materials remotely, how to find quality research sources and how to correctly cite and use those resources in assignments. To take advantage of library resources, call or visit the library to activate your library card barcode on the back of your student ID.

Physical Education Complex

Recreation & Athletics Center, 307.778.1315

The college has a physical education facility that is fully equipped to provide a variety of physical education courses and recreational opportunities for LCCC students and the residents of Laramie County. The physical education recreational facilities include a training room, a climbing wall, weight room, strength center, aerobic center, swimming pool, two-lane indoor running track, indoor tennis courts, racquetball courts, and basketball and volleyball courts.

Albany County Campus students have access to the recreational center in Laramie. For information, call 307.721.5138.

Student Computer Center

Fine Arts Building, Room 171, 307.778.HELP (4357)

The Student Computer Center is equipped with 40 Pentium 3.06 Ghz computers and 19-inch flat panel monitors for student use. A color laser printer and two black-and-white laser printers also are available to students free of charge. The center is open seven days a week, and the hours are posted outside the main door.

COMPUTER COPYRIGHT

LCCC owns the computer software used in all college-wide computer activities. Unauthorized copying of this software violates LCCC policy as well as state and federal copyright laws.

Unauthorized access to college accounts, passwords, or other computer resources is illegal.

Not only may violators face college disciplinary action, including possible expulsion, but they may also be subject to misdemeanor or felony punishment, which includes imprisonment.

Multimedia Classrooms

LCCC has created a number of high tech classrooms containing SMARTboard interactive white boards, 2000-lumen projectors, DVD, VCR, sound system, wireless lapel microphones, cassette recorder/player, document projector, computer, laptop station, and a remote wireless touch screen control panel. From this portable panel, the instructor can control all technology, including the lighting, creating a more flexible learning environment.

Disability Support Services

Education and Enrichment Center, Rooms 222-223

The Disability Support Services (DSS) provides services and resources intended to facilitate equal access for students with disabilities to participate in courses, programs, activities, and services. The DSS office provides a variety of accommodations on a case-by-case bases for students who have documented disabilities.

Students who have questions or want to set up accommodations should call 307.778.1359 or email DSS@lccc.wy.edu for an appointment with a DSS staff member. For students who are deaf or hard of hearing, the TTY number is 307.778.1266.

Albany County Campus students who have questions or need an appointment should call 307.721.5138.

Admission

Laramie County Community College maintains an open admission policy and serves as an equal-access institution to all those who are high school graduates, High School Equivalency Certification (HSEC) recipients, or are over the age of 18 and who can demonstrate the ability to benefit from instruction provided. Others may be admitted as non-degreeseeking students at the discretion of the College. Admission to the College is required for students taking courses offered for credit.

Laramie County Community College does not discriminate on the basis of race, color, national origin, sex, age, religion, political affiliation, or disability in admission or access to, or treatment or employment in, its educational programs or activities.

Inquiries concerning Title VI, Title VII, Title IX, Section 504, and the Americans with Disabilities Act may be referred to Vice President of Student Services, Room 117, Student Services Building, 307.778.1217 or Executive Director of Human Resources, Room 148, Administration Building, 307.778.1258. Inquiries also may be made to the Office for Civil Rights, U.S. Department of Education, 1244 Speer Boulevard, Suite 310, Denver, CO 80204, or Equal Employment Opportunity Commission, 303 East 17th Avenue, Suite 510, Denver, CO 80203. The Nondiscrimination and Anti-Harassment Procedure is available at lccc.wy.edu/nds.

Title IX of the Education Amendments 1972 (20 U.S.C. § 1681 et seq.) and its implementing regulations, 34 C.F.R. Part 106, prohibit discrimination on the basis of sex in education programs or activities operated by recipients of federal financial assistance. Sexual harassment of student or employee, which includes acts of sexual violence, is a form of sex discrimination prohibited by Title IX. For further information, go to the LCCC website at lccc.wy.edu, or contact the Title IX and ADA Coordinator, Room 205B, Clay Pathfinder Building, 1400 E College Drive, Cheyenne, WY 82007, 307.778.1217, TitleIX_ADA.Coordinator@lccc.wy.edu.

Admissions Definitions

- A. Ability to benefit Students may demonstrate the ability to benefit from college-level work based on the COMPASS or WorkKeys test. Score requirements are available from the Admissions Office.
- B. Accredited Accredited by one of the regional accrediting bodies.
- C. Degree-seeking student A student who intends to complete a degree or certificate at Laramie County Community College.
- D. Admission An admission status that indicates that a student has submitted all necessary paperwork and meets the admission requirements.
- E. New Students Individuals who have successfully completed fewer than 12 semester hours of college-level work at another college or have never attended a postsecondary institution.
- F. Transfer Students Individuals who have successfully completed college classes at another regionally accredited postsecondary institution and provided official transcripts as documentation.

Admissions Categories

LCCC admits the following categories of students:

- A. All applicants who are new to Laramie County Community College or transferring from another college may be admitted if they hold a high school diploma from an accredited high school, or successfully completed a AA, AS, AAS degree, or are HSEC recipients.
- B. Applicants who are new to Laramie County Community College and are graduates of a non-accredited high school or home school may be admitted following a review of the applicant's transcript on an individual basis determining that the student has graduated from a legitimate high school or home-school program.
- C. Applicants over the age of 18 who do not meet the criteria in Sections A or B may be admitted as non-degree-seeking students. These applicants may be admitted as special degree-seeking students if they can demonstrate the ability to benefit from college-level work.
- D. Students under the age of 18 who are enrolled in secondary school courses may enroll in credit courses concurrently at LCCC.

Admissions Process

- A. Students Seeking a Degree or Certificate
 - New students To be admitted as degree seeking students, all new students are required to submit an application for admission two weeks prior to the semester/start date, and official high school or HSEC transcripts showing successful graduation or completion.
 - 2. Transfer students To be admitted as degree seeking students, transfer students are required to submit an application for admission two weeks prior to the semester/start date, official high school transcripts, and official transcripts from all previous colleges attended.
 - 3. Students who have earned an associate's or higher level degree from a regionally accredited college are not

required to submit high school transcripts; they need only to submit an application for admission two weeks prior to the semester/start date and official college transcripts showing completion of the degree.

- B. Students Not Seeking a Degree or Certificate
 - 1. Individuals who are pursuing courses for personal enrichment or professional development and not seeking a degree or certificate will be required to submit an application for admission but will not be required to submit official transcripts.
 - 2. These individuals will be provided with enrollment privileges and must still provide documentation of meeting course prerequisites via official or unofficial transcripts prior to registration.
 - 3. Non-degree seeking students will be limited to 6 credits of enrollment per semester unless they complete the full admissions requirements in A above.
- C. LCCC Students Returning after an Absence
 - 1. Students who have attended LCCC in the past but have been absent for one or more semesters, not including summer, must submit a new application.
 - 2. Returning students must resubmit transcripts if they have been away from LCCC for five or more years or if they have taken courses at another postsecondary institution since their last enrollment at LCCC.
- D. Students Changing to Degree-Seeking Status
 - 1. Students who determine that they would like to change their status to degree- or certificate-seeking will be required to submit a formal change of program form, official high school or HSEC transcripts and official transcripts from each college attended.
- E. Admission to Selective Programs
 - 1. All students must apply for general admission to LCCC prior to applying to selective programs. See Section A above for procedure.
 - Selective programs may require additional admission materials and have additional criteria for admission. Refer to the individual program website for specific admissions requirements.
- F. Revoking Admission
 - 1. Admission to LCCC may be revoked for Code of Conduct violations prior to enrollment at the discretion of the Vice President of Student Services.

Admission of International Students

All foreign nationals except Temporary Workers or Intracompany Transferees will be classified as nonresident students unless the United States Citizenship and Immigration Services changes their status to permanent resident or they earn United States citizenship, in which case the residence policies apply.

Individuals applying for admission under F-1 student visa status must also fulfill the following requirements:

- A. File a financial statement with the Student Records Office declaring means and source of support while attending school in the United States, as required by the United States Citizenship and Immigration Services.
- B. Individuals must complete one of the following assessments with the indicated minimum score/level and have the results sent to Laramie County Community College prior to admission:

- 1. Test of English as a Foreign Language (TOEFL) with a minimum score of 500 on the paper version or 173 on the computer version.
- 2. iBt (internet-based test of the TOEFL) with minimum score of 61.
- 3. International English Language Testing System (IELTS) at level 6.0.

Forms are available at lccc.wy.edu/admissions/international.

Orientation

Orientation is required for all degree- and certificate-seeking students. Orientation promotes student success and allows students to:

- Connect with fellow students
- Explore resources available both on campus and online
- Be introduced to the holistic advising system
- Access and understand their student portal, EaglesEye

Orientation sessions are offered throughout the year to correspond to the various term and block start-dates. Sessions are available on the Cheyenne campus, on the Albany County Campus, and online.

For more information, visit: lccc.wy.edu/admissions/orientation.

Residence Classification

The following regulations govern the classification of students as resident or nonresident for the purpose of fee assessment at the seven Wyoming community colleges.

The following students are Wyoming residents:

- A. Residing in Wyoming primarily as a student will not support a claim for resident status.
 - 1. Individuals who are financial dependents or under the age of 24 with a parent, guardian or spouse who lives in the State of Wyoming.
 - 2. Graduates of a Wyoming high school who attend the University or a Wyoming community college within one year of graduation and maintain continuous enrollment
 - 3. Recipients of a high school equivalency in Wyoming who also qualify for a Hathaway Scholarship.
 - 4. Active Wyoming National Guard members and U.S. Armed Forces members stationed in Wyoming, and their dependents.
 - Individuals with a permanent home in Wyoming and who have resided in the State for at least one full year. To determine if a permanent Wyoming home has been established, the following factors are considered:
 - Evidence that any former home has been abandoned
 - Full-time employment in Wyoming for one continuous year
 - Ownership of home or property in Wyoming
 - One year of continual presence in Wyoming
 - Former Wyoming residency and maintaining state ties
 - Reliance on Wyoming resources for full financial support
 - Wyoming vehicle registration
 - Wyoming address on most recent federal income tax return
 - A valid Wyoming driver's license
 - Wyoming voter registration

- 6. Wyoming residents temporarily absent from the State due to military service, attendance at an educational institution, or other type of documented temporary sojourn.
- 7. A resident student who is correctly classified as a resident by any Wyoming community college or by the University of Wyoming shall be classified a resident at all Wyoming community colleges.
- 8. The spouse or financial dependent of an individual who is determined to be a Wyoming resident pursuant to these Guidelines.
- 9. Effective for the 2015 summer school session and each semester thereafter, an applicant for resident tuition who is a veteran or eligible individual, as described in 38 U.S. C. 3679(c)(2), shall qualify as a resident for purposes of tuition at a Wyoming Community College if the applicant enrolls at one of the Wyoming community colleges within three (3) years of his/her discharge and provides:
 - A certificate or other evidence of the veteran's qualifying service in the uniformed services of the United States;
 - b. Documented evidence at the time of enrollment that:
 - i. The applicant for resident tuition intends to live in Wyoming during the term of enrollment;
 - ii. The veteran was discharged or released from a qualifying period of service in the active military, naval or air service before the date of enrollment;
 - iii. If the applicant is a spouse or a child of the veteran, the applicant is a transferee pursuant to 38 U.S.C. 3311(b)(9) or 3319 of the veteran's eligibility for educational benefits.
 - c. A person who has qualified for resident tuition pursuant to the above requirements of this section, shall remain qualified in subsequent years if the person pursues one or more courses of education while remaining continuously enrolled, other than during regularly scheduled breaks, lives in the state during the term of enrollment, and, if the person is eligible through a transfer of eligibility pursuant to 38 U.S.C. 3319, the transfer has not been validly revoked.
- B. The following students are non-residents:
 - 1. Individuals who do not qualify under Section A above;
 - 2. Individuals who are not U.S. citizens or permanent residents except as provided by Section 1b. above.
 - 3. Individuals holding a valid Nonimmigrant status in the following categories: F-1 and F2, H-3 and H-4, J-1 and J-2, M-1 and M-2.

No reclassification will be retroactive to previous terms; questions regarding residency reclassification should be directed to the Office of the Registrar.

Academic Skills Assessment and Placement

Academic skills assessment and subsequent placement for initial levels of Math and English courses are essential to assist students in making choices that will enable them to attain their educational goals. To assure appropriate advising, LCCC adheres to the following assessment and placement protocols:

A. Students who have either an acceptable ACT or SAT score in the previous five years OR students who have graduated from high school within five years of applying to LCCC and whose high school cumulate grade point average (GPA) is 3.0 or higher are considered ready for initial college-level math and college-level English courses (ENG 1010, Math 1010, Math 1400). High school transcripts provided through Admissions process and/or official ACT/SAT scores.

- B. Students without either of those measures will be directed to prepare for and take the tests provided in the Testing Center for placement into the correct levels of math and English: ALEKS PPL for math, and McCann College Success for English.
- C. Students who hold a college degree from a regionally accredited college or university, as evidenced by provision of official transcripts to the Student Records Office, are considered ready for college-level math and college-level English courses (listed above); see page 20 for information regarding transferability of courses from other institutions.
- D. Students auditing courses do not need to provide proof of academic eligibility (see page 17).
- E. Students who doubt their own readiness for collegelevel courses, regardless of their high school GPA or ACT/ SAT scores, are welcomed to take the ALEKS and/or the McCann exams for better advice.

Additional information regarding placement scores for math and English are available at http://www.lccc.wy.edu/ academics/services/testingCenters/testingCenter/placement/ placementscores/.

Exemptions

Students must take the placement tests in order to show proof of meeting course prerequisites. The placement test may be waived if the following applies:

- A. The Student Records Office will evaluate transcripts to determine if courses taken will meet college prerequisites. Students transferring from a regionally accredited college/ university who present official transcripts indicating successful completion of course work may be exempted as follows:
 - 1. Exemption from math placement exam: Completion of a college-level mathematics course with a grade of C or higher. It is highly recommended that those students who still need to enroll in MATH 1010 or 1400 take the math placement exam to ensure appropriate math course selection.
 - 2. Exemption from English placement exam: Completion of a college English course equivalent to ENGL 1010 with a grade of C or higher.
 - 3. Exemption from reading placement exam: Completion of 12 credits of college-level courses, with a grade of C or higher, that are transferable to a program of study at LCCC.
- B. Students who audit courses.

Registration

Students may register and pay for classes online through EaglesEye. Degree-seeking students may register after completing Orientation and meeting with their assigned advisor.

Course Load

Twelve hours constitute a minimum full-time course load, but the normal load for one semester is 15-18 credit hours. The maximum load is 19 hours. Students desiring to take more than 19 hours must receive permission from the dean of the declared major. STUDENTS WORKING MORE THAN 15 HOURS A WEEK ARE STRONGLY ADVISED TO REDUCE THEIR COURSE LOADS ACCORDINGLY.

Course or Class Schedule Changes

In order to make changes to his/her class schedule, the student must do the following:

- 1. Add/drop via EaglesEye or obtain a drop/add form from the Student Records Office.
- 2. List courses to be dropped or added. The instructor's and dean's signatures are required for adding a course after the first day of class. The school dean's signature is required for dropping a course after the withdrawal date.
- 3. Return the completed form to the Student Records Office.

NOTE: A VETERAN MUST CONTACT THE CAMPUS VETERANS OFFICE WHEN ANY CHANGE OF SCHEDULE IS MADE.

FINANCIAL AID RECIPIENTS SHOULD BE AWARE THAT CHANGES IN ENROLLMENT MAY AFFECT THE FINANCIAL AID AWARDS FOR THE SEMESTER IN WHICH THE CHANGE OCCURS AND/OR THE STUDENT'S FUTURE ELIGIBILITY UNDER THE ACADEMIC PROGRESS REQUIREMENTS.

Withdrawal Procedures

If a student must withdraw from a course, that student should initiate the process by obtaining and completing a withdrawal form from the Student Records Office. For a 16-week course, a student may withdraw any time prior to the last day to withdraw listed in the Academic Calendar. A grade of "W" will be noted on the transcript for any course from which the student withdraws after the 10th business day of the semester for 16 week course. All courses that are less than a full semester in length will have the "drop period" and the grade of "W" adjusted accordingly.

Students completely withdrawing from the College are required to see an academic advisor prior to the withdrawal. Students receiving federal financial aid are also strongly encouraged to meet with a financial aid representative prior to the withdrawal. Any exception to this withdrawal policy must be presented by the student or the instructor to the appropriate school dean.

Students seeking a retroactive withdrawal must seek approval from Registrar prior to the withdrawal.

Administrative Holds

Registration may be restricted due to the following conditions:

- 1. Unmet financial obligation with the college.
- 2. Unreturned college equipment or materials.
- 3. Disciplinary sanctions.
- 4. Failure to maintain good academic standing.
- 5. To enforce advising for students for whom it is mandatory.

Administrative Withdrawals

Laramie County Community College retains the right to administratively withdraw students from courses under

circumstances related to financial obligation, academic standing, individual hardship, and discipline or campus safety. Administrative withdrawals may be initiated if the student:

- 1. Has a delinquent financial account at the college.
- 2. Registered for courses while under suspension or expulsion.
- 3. Is physically or emotionally unable to withdraw personally, and it is determined that the student would have withdrawn if given the opportunity.
- 4. Is required to withdraw due to a disciplinary action.
- 5. Fails to meet academic progress requirements in a selective admission program, the program coordinator may recommend an administrative withdrawal.

Effect of Enrollment Changes on Financial Aid

Dropping or withdrawing from a course or courses during the semester may impact student financial aid eligibility. Students who drop or withdraw from courses while receiving federal financial assistance may have financial aid already awarded reduced or cancelled or may be subject to a Return to Title IV calculation. Title IV (federal) financial aid includes, but is not limited to, the following: Pell Grant, SEOG, Work Study, and student/parent Direct Loans. Before dropping or withdrawing from courses, contact the Office of Scholarships and Financial Aid. For more details, refer to the section titled "Return to Title IV Calculation for Federal Financial Aid Recipients."

Tuition and Fees

Tuition and student fees are for the academic year 2016-2017. Tuition and fees are subject to change. Please check the website for current rates.

Wyoming Resident (12 or more hours)

Tuition	\$1,068.00 a semester
Student Fees	\$ 585.00 a semester
Total	\$1,653.00 a semester

Out-of-State Student (12 or more hours)*

Tuition	\$3,204.00 a semester
Student Fees	\$ 585.00 a semester
Total	\$3,789.00 a semester

WUE (Western Undergraduate Exchange)

(12 or more nours)*	
Tuition	\$1,596.00 a semester
Student Fees	\$ 585.00 a semester
Total	\$2,181.00 a semester
10tu1	

For a student attending the college less than full-time, the following fees apply:

Wyoming Resident	(1-11 credit hours)
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Tuition\$	89.00 a credit hour/semester
Student Fees\$	48.75 a credit hour/semester
Total\$	137.75 a credit hour/semester

Out-of-State Student (1-11 credit hours)

Tuition\$	267.00 a credit hour/semester
Student Fees\$	48.75 a credit hour/semester
Total\$	315.75 a credit hour/semester

WUE (Western Undergraduate Exchange) (1-11 credit hours)Tuition133.00 a credit hour/semesterStudent Fees48.75 a credit hour/semesterTotal181.75 a credit hour/semester

LCCC Catalog 2016-2017

The following fees and expenses apply to all students:

Credit by Examination Fee

CLEP Subject Examination Fee	
,	
(subject to change)	\$80.00
plus administrative fee to LCCC	\$20.00
Departmental Examination Fee	
(per credit hour)	\$25.00
DSST Subject Examination Fee	
(subject to change)	\$80.00
plus administrative fee to LCCC	\$20.00
Initial Diacoment Test Fee	NTl
Initial Placement Test Fee	. No charge
Retake Placement Test Fee	-
	\$ 5.00
Retake Placement Test Fee	\$ 5.00 \$ 5.00
Retake Placement Test Fee Non-LCCC Placement Test Fee (per subject)	\$ 5.00 \$ 5.00 \$ 5.00
Retake Placement Test Fee Non-LCCC Placement Test Fee (per subject) Transcript Fee (official copy)	\$ 5.00 \$ 5.00 \$ 5.00 \$ 5.00 \$ 20.00
Retake Placement Test Fee Non-LCCC Placement Test Fee (per subject) Transcript Fee (official copy) Graduation Fee (nonrefundable)	\$ 5.00 \$ 5.00 \$ 5.00 \$ 20.00 \$35.00
Retake Placement Test Fee Non-LCCC Placement Test Fee (per subject) Transcript Fee (official copy) Graduation Fee (nonrefundable) Cap and Gown Fee, estimated	\$ 5.00 \$ 5.00 \$ 5.00 \$ 20.00 \$35.00

Tuition and Fee Automatic Payment Plan

Students may elect to pay their tuition and fees through LCCC's Automatic Payment Plan. LCCC has contracted with Nelnet Business Solutions (NBS) to provide an automatic payment plan that is an easy, convenient, and interest-free alternative for payment of tuition and fees. A student must pay a nonrefundable \$25 processing fee to NBS and agree to automated withdrawal payments by NBS to participate in the plan. The automated withdrawal payments can be from checking or savings accounts or major credit card accounts. Plan details are available on LCCC's website under payment options for your student account or at the Student Records, Financial Aid, or Accounting Offices. See schedule below for deadlines, required down payments, and number of payments for remaining balance.

Students enrolled in 11- to 16-week courses will be allowed two installment time periods for the balance due.

Direct Deposit for Student Refunds

Students may elect to receive their student financial aid refund checks directly into their bank accounts (checking or savings) through direct deposit. Setting up the direct deposit is easy and free. Students need to log into their EaglesEye account, click on the Student tab, and select financial profile. On the left navigation bar, select "banking information" and complete the form.

	Last Day to Enroll Online	Required Down Payment	Number of Payments	Months of Payments
Fall 2016	* July 27 * August 12 * August 29 B Block Only	15% 25% 35%	4 3 2	Aug-Nov Sept-Nov Oct & Nov
Spring 2017	 * December 20 * January 3 * January 17 B Block Only 	15% 25% 35%	4 3 2	Jan-Apr Feb-Apr Mar & Apr
Summer 2017	* May 9 * May 30 B Block Only	25% 50%	2 1	June & July July Only

*Dates are subject to change. Please check Eagles Eye for exact dates.

e-Cashier Availability

Availability of e-Cashier is determined by LCCC. The college may elect not to have e-Cashier available during specific times and dates during registration.

Students should not assume balances will automatically be adjusted if financial aid is received or a course is dropped or added. Consult catalog for class withdrawal policy and refund dates. Students can review agreement balances online through My FACTS Account or call the LCCC Accounting Office at 307.778.1203 to confirm the change.

Residence Hall Automatic Payment Plan

Students may elect to pay their residence hall fees in full or through LCCC's Automatic Payment Plan. LCCC has contracted with Nelnet Business Solutions (NBS) to provide an automatic payment plan that is an easy, convenient, and interest-free alternative for payment of tuition and fees. A student must pay a nonrefundable \$25 processing fee to NBS and agree to automated withdrawal payments by NBS to participate in the plan. The automated withdrawal payments can be from checking or savings accounts or major credit card accounts. Plan details are available on LCCC's website under payment options for your student account or at the Student Records, Financial Aid, or Accounting Offices.

The Golden Age Privilege

LCCC offers individuals 60 and older the privilege of enrolling for credit classes at a cost of \$10 per credit hour. However, other fees such as lab, records, etc., must be paid.

Western Undergraduate Exchange (WUE)

The Western Undergraduate Exchange (WUE) Program is a program through which students in participating states may enroll in designated institutions and programs in other participating states at a special, reduced tuition level. Under the terms of this program, students can be admitted at a cost of 150 percent of resident tuition.

Participating in the Western Undergraduate Exchange are Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming. WUE rates are extended to Nebraska students by Wyoming community colleges.

LCCC will admit students from the above states to enter with the WUE designation. Requirements for proof of residency will be the same as currently in place for all LCCC students.

Students from any participating state may enroll in any program of study at LCCC.

Refund Policy for Credit Courses

Dropping a course prior to the first class meeting will result in a 100 percent refund of tuition and fees. For a drop or withdrawal after the first class meeting, tuition and fees will be refunded based on the length of the course. The end of the 100 percent refund period aligns with the last day to drop a class without a "W" grade. The refund dates for each course block are listed in the Academic Calendar. Students must drop classes from EaglesEye or submit an add/drop form to the Student Records Office to officially drop or withdraw from any course. The effective date of the change is the date the form is received by the Student Records Office or the date the online transaction is processed. Graduation fees are nonrefundable.

Students may expect to receive refund checks approximately four to six weeks after the course is dropped. No cash refunds will be issued.

Return to Title IV Calculation for Federal Financial Aid Recipients.

This policy applies to any student awarded Title IV (federal) financial aid including the following: Pell Grant, SEOG, Work Study and student/ parent Direct Loans.

Students who drop or withdraw from all courses prior to the end date of the course mat be subject to a Return to Title IV calculation. Students who receive failing or incomplete grades may also be subject to this calculation. In some cases, this calculation results in a charge back of Title IV (federal) financial aid for which the student is responsible. When the Return to Title IV calculation results in a charge back of Title IV financial aid, the student will receive a letter to their home address indicating the amount charged back, the current account balance, and the students option for repayment. Questions about Return to Title IV calculations may be directed to the Office of Scholarships and Financial Aid.

Refund Policy for Noncredit Courses

There is a separate and different refund policy for all continuing education and life enrichment noncredit courses. Please see the current Life Enrichment class schedule.

Academic Policies and Regulations

Catalog Under Which a Student May Graduate

The current catalog at the time a student enrolls in credit classes or changes majors determines the degree or certificate requirements for graduation. Students who have a break in attendance of one (1) semester, excluding summer semester, must meet the degree or certificate requirements of the catalog in use at the time of readmission even if they are not changing majors.

The College reserves the right to substitute courses for those no longer offered or to substitute one course for another in any program or degree. Refresher classes may be required for some skills courses.

Specific allied health programs require students to meet graduation requirements of the class for which they are admitted or readmitted.

Prerequisites

A prerequisite is designed to help students be successful. Prerequisites also inform prospective students what body of knowledge is necessary to be successful in a particular course.

If a prerequisite course is listed for a subsequent course, the student must have completed satisfactorily (grade of C or better) the prerequisite course, scored at an equivalent level on the college placement test, or completed an equivalent course at a college/university with regional accreditation. Equivalent courses must be demonstrated by submitting an official transcript, and final determination will be made by the Student Records Office/Registrar. For additional information, please refer to the "Academic Skills Assessment and Placement Policy" on Page 13.

Class Attendance

Students are expected to attend all classes for which they enroll. Students are responsible for all class work missed during an absence. Satisfactory attendance is normally a condition precedent to successful completion of the course.

Grading System, Grade Reports, and Honors

The grading sequence at Laramie County Community College is A, B, C, D, F, S, U, I, W and Audit. A grade point scale is incorporated to maintain records that are consistent with neighboring institutions to ensure ease of transferability.

Grade Point Scale is:

Α	Excellent	4 points
В	Above Average	3 points
С	Average	2 points
D	Below Average	1 point
F	Failing	0 points
S	Satisfactory (equivalent of "C" or higher)	0 points
U	Unsatisfactory (equivalent of "D" or "F")	0 points
Ι	Incomplete	0 points
W	Withdrawal from class	0 points
Audit	Course taken for	
	informational purposes only	No credit
AF	Academic Forgiveness	No credit
TR	Transfer Credit or Credit by Exam	0 points

A student my repeat a course in an attempt to earn a higher grade. The higher grade for the repeated course is used in the GPA calculation.

Satisfactory/Unsatisfactory Grades

Subject to the provisions listed below, a student may request to be graded on a Satisfactory (S) credit basis rather than the A, B, C, D, F, I system:

- 1. The decision must be made before the end of the first week of the class and agreed upon by the instructor of the course.
- 2. Courses which will be graded only on a satisfactory (S) credit basis will be identified as such in the class schedule.
- 3. The (S) credit option may not transfer to some institutions; therefore, students are urged to consult with their advisors prior to registration.
- 4. An (S) grade is the equivalent of a "C" or higher. A (U) grade is the equivalent of a "D" or "F" grade.
- 5. The grades of "S," "U," "I," "W" and Audit are not calculated into the GPA.

Withdrawal

For any course that is officially dropped after the 10th business day of the semester, a grade of "W" will be noted on the transcript. All courses that are less than a full semester in length will have the "drop period" and the grade of "W" adjusted accordingly.

Incomplete Grades

The incomplete "I" grade is a temporary grade issued at the request of the student with the consent of the instructor for reasons beyond the student's control. To be eligible for requesting and receiving an "I," a student must have: a) a valid and justifiable reason for requesting the "I," b) attended more than 60 percent of the class sessions, c) satisfactorily met the

course requirements as defined by the instructor, d) completed approximately two-thirds of the course length, e) met with the instructor and completed and signed the necessary forms for the incomplete.

The "I" grade cannot be changed to an audit or withdrawal by the student. If the work for the incomplete is not completed within the time allowed, then the "I" will be automatically changed to an "F." The "I" must be made by the "date due" agreed to by both the instructor and the student in the written contract. The maximum allowable "date due" is one calendar year from the last day of finals. An extension of time may be granted by the instructor under extraordinary circumstances.

Auditing Courses

Students who want to enroll in a course for informational purposes only may do so by registering for audit. Students may repeat an audited course later for credit by registering for the course and paying tuition and any applicable fees. The tuition and any fees for an audited course are the same as if the course were taken for credit. The decision to audit a course should be made at registration; however, students may elect to change to audit if the following procedure is observed:

- 1. For a 16-week course, students may change a course from credit to audit at any time prior to the end of the ninth week of the semester following the standard procedure for a schedule change. Changing a course from credit to audit at any time during the semester may result in a reduction in financial aid. Please meet with a financial aid representative prior to changing a course from credit to audit.
- 2. For courses fewer than 16 weeks, including summer courses, the deadline for changing is the midpoint of the course.
- 3. Students may only change a course from audit to credit after the first class meeting with an instructor's signature. Often an audit student is not expected to take examinations, complete writing assignments, or complete other course requirements. However, because of the particular nature of some courses, the instructor may require that an audit student complete writing assignments, term papers, examinations or other course requirements. Any student enrolled in a course for audit should clarify the requirements with the instructor before enrolling or on the first day of class. If there are course requirements that an audit student is unprepared or unwilling to meet, he or she may drop the course immediately subsequent to the first class period and receive a full tuition refund. An audit student who is unwilling to meet the stated course requirements and does not drop the course immediately subsequent to the first class period, may be withdrawn from the class at any time by the instructor for failing to meet stated requirements.

Academic Honors

Students enrolled with a minimum of 12 credit hours in any semester who earn a grade point average of 3.75 or higher will be listed on the President's Honor Roll. Those earning a grade point average of 3.5 to 3.74 in any semester will be listed on the Vice President's Honor Roll.

Students with a cumulative average of 3.75 or above will graduate with the honor of HIGH DISTINCTION. Students with a cumulative average of 3.5 or above will graduate with the honor of DISTINCTION.

Academic Rights and Responsibilities

Each student is expected to display appropriate conduct while on campus or attending college-sponsored activities. The college will take appropriate action for any violation of the Academic Code of Conduct, which includes but is not limited to plagiarism; cheating; and the unauthorized acquisition or disposition, or other trafficking in exams, papers, or other classroom materials for which the student bears responsibility for originality. Disciplinary action may be taken if violations of the Academic Code of Conduct or General Code of Conduct occur. The Student Handbook, which contains the Codes of Conduct, Sanctions, Administrative Due Process and Appeals procedures, is available throughout the year in the offices of the Vice President of Student Services, Dean of Students, the Ludden Library & Learning Commons, or on LCCC's website. Each student, as a member of the college academic community, is responsible for becoming familiar with and abiding by these policies and regulations. See the LCCC Student Handbook for further information on student rights and responsibilities.

Satisfactory Academic Standing

Satisfactory academic standing must be maintained during attendance at the college in order that students may accomplish their educational goals. A system has been designed to encourage and assist students to attain these goals.

- 1. Every student must have a minimum of a 2.0 (C) cumulative grade point average by the time the certificate or degree is earned.
- 2. Students may progress toward this goal of satisfactory academic standing if the following standards are met:

Minimum Required Cumulative Grade Point Average

- 2.0 or better = satisfactory standing
- 1.99 or less = academic probation
- Two consecutive semesters with a cumulative GPA of 1.99 or less = academic suspension

ACADEMIC PROBATION/SUSPENSION

Students will be placed on academic probation and notified by the Student Records Office when their cumulative grade point average (GPA) falls below a 2.0. The purpose of academic probation is to alert students that they have not met academic standards, to provide students with the opportunity to assess their academic standing, and to offer options to return the student to good standing.

The first semester that a student does not meet academic standards, he/she will be placed on probation. The student will be required to meet with an academic advisor in the Advising Center and develop an education success plan which addresses the cause of his or her academic challenges.

The second consecutive semester a student does not meet academic standards, he/she will be placed on academic suspension and will be required to take one semester off from courses at LCCC. After a semester of non-enrollment from LCCC, an academically suspended student will be able to petition for re-enrollment by meeting with an academic advisor and completing an academic plan designed to help the student meet his/her academic goals. The student will be required to meet with an academic advisor each semester until he/she has a cumulative GPA at or above a 2.0. Students may appeal this suspension in writing to the Director of Student Planning and Success and the Registrar for an additional probationary semester.

Once a student's cumulative GPA is back at or above the 2.0 level, he/she is no longer on academic probation/ suspension. Suspended students who achieve a semester GPA of 2.0 or higher but fail to raise their cumulative GPA above a 2.0 may continue taking courses only at the discretion of the academic advisor.

ACADEMIC FORGIVENESS

Laramie County Community College permits degree-/ certificate-seeking students to petition for academic forgiveness of course work that was previously taken at LCCC. The goal of this procedure is to lighten the burden of poor prior performance once a student has demonstrated and ability to succeed academically. Students wishing to pursue academic forgiveness should discuss the options available with their academic advisor.

The Academic Forgiveness procedure is available at lccc.wy.edu/Documents/Academic-Forgiveness-Procedure.pdf

Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

- The right to inspect and review students' education records within 45 days of the day that Laramie County Community College receives a request for access. Students should submit to the vice president, registrar, school dean of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The college official will make arrangements for access and notify the students of the time and place where the records may be inspected. If the records are not maintained by the college official to whom the request was submitted, that official shall advise the students of the correct official to whom the request should be addressed.
- 2. The right to request the amendment of students' education records that students believe are inaccurate or misleading. Students may ask the college to amend a record that they believe is inaccurate or misleading. They should write the college official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the college decides not to amend the record as requested by a student, the college will notify the student of the decision and advise the student of his/her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to students when notified of the right to a hearing.
- 3. The right to consent to disclosures of personally identifiable information contained in students' education records, except to the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests including contractors, volunteers, and other non-employees performing institutional services and functions. A school official is a person employed by the college in an administrative, supervisory, academic or research, or support staff position (including law enforcement personnel and health staff); a person or company with

whom the college has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill a professional responsibility. Upon request, the college discloses education records without consent to officials of another school in which students seek or intend to enroll.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by LCCC to comply with the requirements of FERPA.

Laramie County Community College designates the following items as Directory Information: student name, address, phone number, major field of study, participation in officially recognized activities and sports, photograph, email address, dates of attendance including whether currently enrolled, enrollment status (full time, part time), and degrees and awards received. The college may disclose any of these items without prior written consent, unless notified to the contrary in writing by the student at the Student Records Office.

Records of Deceased Students

Laramie County Community College will release information that is designated by the college as directory information of deceased students. It is LCCC's policy not to release the non-directory education records of deceased students without written authorization from either the personal representative (executor/executrix), parents, child, and/or spouse of the deceased student for a period of ten (10) years following the death of the student unless required by law. Proof sufficient to establish death and the relationship to the deceased student, to be determined at the sole discretion of the custodian of the record, are required for the release of any deceased student's education records. After the proscribed period of time, access to the deceased student's education records will be determined by the custodian of record on a case-by-case basis and in accordance with applicable federal, state, and local law.

Servicemembers Opportunity College

Laramie County Community College has been designated an institutional member of Servicemembers Opportunity Colleges (SOC), a group of more than 400 colleges and universities providing voluntary postsecondary education to members of the military throughout the world. As a SOC member, LCCC recognizes the unique nature of the military lifestyle and has committed itself to easing the transfer of relevant course credits, providing flexible academic residency requirements, and crediting learning from appropriate military training and experiences. SOC has been developed jointly by educational representatives of each of the Armed Services, the Office of the Secretary of Defense, and a consortium of 13 leading national higher education associations; it is sponsored by the American Association of State Colleges and Universities (AASCU) and the American Association of Community Colleges (AACC).

Servicemembers are encouraged to consult the Student Records Office at the LCCC campus concerning the award of credit for nontraditional learning.

Distance Learning

Distance learning courses currently offered by Laramie County Community College include online courses and compressed video courses.

Online and Hybrid Courses

Online courses enable students to take college-level courses while meeting work, family, or transportation schedules that do not correspond to traditional classroom hours.

Online courses require that students be self-motivated and self-directed and have basic knowledge of how to operate a computer. Students must have access to a computer that is connected to the internet. Most online courses can be approved for VA benefits depending on the student's program.

Hybrid Courses

A hybrid course is a blend of face-to-face instruction with an online learning component. In a hybrid course, a significant part of the course learning is online and as a result, the amount of classroom seat-time is reduced. A hybrid student must have the same technical skills and equipment as an online student.

Compressed Video Courses

Compressed video is a technology that allows students at an alternate site to receive instruction on a video monitor. Students at the alternate site receive instruction simultaneously with students at the LCCC main campus classroom (EEC 132). Students can see and talk to one another at all sites.

Correspondence and Military Service Credit

Credits earned by correspondence or in military serviceconnected schools or through the U.S. Armed Forces Institute will be reviewed by the college and credit granted, if applicable. The American Council on Education (ACE) guidelines will be used for the evaluation of military service credits. A student requesting military service credit should contact Student Records.

Credit by Examination

Credit by examination is designed to measure knowledge learned in school, on the job, through reading, through observation or through life experiences. This testing program is another method of accumulating credit toward degree completion. The components of the program are as follows:

- CLEP (College Level Examination Program) and DSST (formerly DANTES) Subject examinations cover material taught in courses with similar titles at LCCC. The college will grant the same amount of credit equivalency to students earning a satisfactory score as it grants to students who successfully complete the course. LCCC does not award credit for CLEP general exams.
- 2. DEP (Departmental Examination Program)– Specific LCCC course examinations Credit for some courses offered by LCCC may be earned through departmental examinations if a CLEP subject examination is unavailable. If an LCCC course exists for which a student would like to earn credit through an examination, the student should contact the appropriate

school dean to determine whether that possibility exists. Minimum scores for departmental examinations are established by the individual schools. Refer to Testing Guidelines for more information.

CLEP, DSST, and the DEP can be administered at Laramie County Community College. For additional information, contact the Testing Center, Arp Building, Room 169, 307.778.1105, test center@lccc.wy.edu.

Transcript Entries

To qualify for credit by examination, a student must be enrolled at LCCC. Credit awarded through credit by examination programs will be applied to the total hours earned and will be entered on the student's transcript. A student may use credit by examination to fulfill all degree/certificate graduation requirements except for the mandatory 15-credit hour residency requirement. All credits by examination will be entered on the student's transcript as Transfer Credit (T and/ or TR) only. Credit will be awarded for Subject Exams only, not General Exams. Credit will be awarded only for exams for which there is a direct equivalent LCCC course.

Based on the schedule available in the Testing Center or the LCCC College Catalog. Credit earned by examination will be subject to all policies as stated within this general catalog.

Transferring Credits by Exam

Students must request that DSST and CLEP scores be sent directly from Prometric or The College Board. Students should be aware that not all colleges have the same policies regarding acceptance of credit by examination. Therefore, if a student is transfer-bound, it is the student's responsibility to find out whether credit by examination earned at LCCC will transfer to another institution.

Testing Guidelines

- 1. Registration information for CLEP and DSST, examinations may be obtained at the Testing Center (ARP Building, Room 169, 307.778.1105, testcenter@lccc.wy.edu).
- 2. CLEP and DSST examinations will be administered by scheduled appointment.
- 3. All CLEP and DSST subject examinations are administered in the LCCC Testing Center. CLEP and DSST subject examinations are also administered at F.E. Warren Air Force Base.
- 4. Students may contact the Testing Center for the current schedule of fees for CLEP and DSST. An administrative fee of \$20 is assessed for each CLEP or DSST subject examination.
- 5. CLEP and DSST examinations may not be repeated within 90 days from the time the examination was administered.
- 6 Departmental examinations are administered and scheduled by the instructor of the individual department.
- 7. A fee of \$25 per credit hour is assessed for each departmental examination.

Transferability of Courses

A. Transcripts

Upon request by a student through the National Student Clearinghouse, the Student Records Office will send official transcripts to any college or agency named. There is a \$5 charge for each copy of an official transcript. Students can be issued an official transcript when all financial obligations to the college have been satisfied. Since LCCC is not permitted to copy and forward transcripts of other institutions, students must request records directly from prior institutions. All credentials become the property of the college.

B. Transfer of Credits from Regionally Accredited Postsecondary Institutions

Credit earned at other institutions will transfer to LCCC upon evaluation by the Student Records Office. Lower division, freshman, and sophomore college-level courses completed with a grade of C or higher from regionally accredited institutions may be accepted in transfer. Upper division, junior, senior, and graduate-level courses may be accepted in transfer to satisfy degree requirements with advisor approval.

When students transfer to LCCC with an associate of science, an associate of arts, a bachelor's, or a graduate degree from an accredited institution, LCCC will accept that general education curricula, although students still must fulfill the Wyoming constitutional requirement. However, students transferring with an associate of applied science degree must fulfill LCCC's general education requirements if they are working toward an associate of arts or an associate of science degree.

C. Transfer Credits from Approved Secondary Institutions Laramie County Community College will award credit for various International Baccalaureate (IB) and Advanced Placement (AP) subjects as indicated in the tables on Page 17.

D. Transfer of Credits to Approved Institutions

Credits earned at Wyoming community colleges are transferable to other approved institutions, though students are advised that usually only grades of C or higher can be applied to a degree program. Students, in conjunction with their advisors, should carefully consider each course to assure that no problems with transfer will arise. A knowledge of the transfer policy of the institution to which transfer will be made is also helpful. Transferability of each course is ultimately determined by the receiving institution.

Students should see their advisors or refer to the Wyoming Higher Education Transfer Guide to obtain information on transfer of credit to the University of Wyoming.

International Baccalaureate (IB) Courses (Students will be required to submit official IB Transcripts.)

IB SUBJECT	REQUIRED MINIMUM SCORE	LCCC COURSE	CREDIT HOURS TRANSFERRED TO LCCC	COURSE TITLE
Social Anthropology SL	4+	ANTH 1200	3	Introduction to Cultural Anthropology
History—American HL	4	HIST 1210 and HIST 1220	6	U.S. History I U.S. History II (must complete POLS 1100)
Math Methods	4	MATH 1450	5	Pre-Calculus Algebra and Trigonometry
Math HL	4	MATH 1450 MATH 2200	8	Pre-Calculus Algebra and Trigonometry Calculus I
English HL	4+	ENGL 1010	3	English I: Composition
Psychology SL	4+	PSYC 1000	3	General Psychology
French Language	4	FREN 1010	4	First Year French I
French Language	5	FREN 1010 and FREN 1020	8	First Year French I First Year French II
German Language	4	GERM 1010	4	First Year German I
German Language	5	GERM 1010 and GERM 1020	8	First Year German I First Year German II
Spanish Language	4	SPAN 1010	4	First Year Spanish I
Spanish Language	5	SPAN 1010 and SPAN 1020	8	First Year Spanish I First Year Spanish II
Biology HL	4+	BIOL 1010	4	General Biology
Biology SL	4+	BIOL 1000	4	Principles of Biology
Chemistry HL	4	CHEM 1000	4	Introductory Chemistry
Chemistry HL	5+	CHEM 1020 and CHEM 1030	8	General Chemistry I General Chemistry II
Chemistry SL	5+	CHEM 1000	4	Introductory Chemistry
Physics HL	4	PHYS 1110 and PHYS 1120	8	General Physics I General Physics II

Advanced Placement (AP) Information (Students will be required to submit their AP Test Scores.)

SUBJECT	ACCEPTABLE SCORE	COURSE TITLE	CREDITS
Biology	4 or 5	BIOL 1010, General Biology	4
Calculus AB	3, 4, or 5	MATH 2200, Calculus I	4
Calculus BC	3, 4, or 5	MATH 2200, Calculus I and MATH 2205, Calculus II	4 4
Chemistry	4 or 5	CHEM 1020, General Chemistry I and CHEM 1030, General Chemistry II	4
Computer Science A	4 or 5	COSC 1010, Intro to Computer Science	4
Computer Science AB	4 or 5	COSC 1010, Intro to Computer Science and COSC 1030, Computer Science I	4
European History	3, 4, or 5	HIST 1110, Western Civilization I	3
French Language	3	FREN 1010, First Year French I	4
French Language	4	FREN 1010, First Year French I and FREN 1020, First Year French II	8
French Language	5	FREN 1010, First Year French I and FREN 1020, First Year French II and FREN 2030, Second Year French I	12
German Language	3	GERM 1010, First Year German I	4
German Language	4	GERM 1010, First Year German I and GERM 1020, First Year German II	8
German Language	5	GERM 1010, First Year German I and GERM 1020, First Year German II and GERM 2030, Second Year German I	12
Government and Politics	3, 4, or 5	POLS 1000, American and Wyoming Government (must complete POLS 1100)	3
Human Geography	4 or 5	GEOG 1020, Intro to Human Geography	3
Language and Composition	4 or 5	ENGL 1010, English I Composition	3
Literature and Composition	4 or 5	ENGL 1010, English I Composition	3
Physics B	4 or 5	PHYS 1310, College Physics I	4
Psychology	3, 4, or 5	PSYC 1000, General Psychology	3
Spanish Language	3	SPAN 1010, First Year Spanish I	4
Spanish Language	4	SPAN 1010, First Year Spanish I and SPAN 1020, First Year Spanish II	4 4
Spanish Language	5	SPAN 1010, First Year Spanish I and SPAN 1020, First Year Spanish II and SPAN 2030, Second Year Spanish I	4 4 4
U.S. History	4 or 5	HIST 1210, US History I and HIST 1220, US History II (must complete POLS 1100)	3
Statistics	4 or 5	STAT 2010, Statistical Concepts – Business or STAT 2070, Introductory Stat for Social Science	4

Student Support Services and Campus Life

Student Rights and Responsibilities

Laramie County Community College has established expectations designed to maximize the learning environment on campus. All members of the college community are expected to approach their academic endeavors, relationships, and personal responsibilities with a vigorous commitment to the pursuit of free expression and inquiry, integrity, civility, appreciation for diversity, and respect for self and others. Each student enrolling in the college assumes an obligation as a responsible member of the college community to demonstrate conduct compatible with the college's mission as an educational institution.

As a member of the campus community, it is each student's right and each student's responsibility to be informed. The following documents are just a few of the reports, policies, and procedures pertaining to student rights and responsibilities:

- Statement of Student Rights and Responsibilities
- Annual campus security report
- Graduation/Persistence Report
- Alcohol and Drug Education and Prevention information
- Sexual harassment and sexual assault policy and procedures
- Family Educational Rights and Privacy Act (FERPA) procedure
- Student grievance procedures

These materials regarding student rights and responsibilities are located online at lccc.wy.edu, the Student Life Office, or the Dean of Students Office.

Commitment to Diversity

Laramie County Community College defines diversity as that quality of its physical, social, cultural, and intellectual environment that embraces the rich differences within the multiplicity of human expression and characteristics, including but not limited to, age; culture; ethnicity; gender identification and presentation; health status; language and linguistic ability; life experiences; nationality; political viewpoints; race; religion; sexual orientation; socioeconomic status; veteran status; and mobility, sensory, or perceptual ability.

Diversity is a key to excellence in education. LCCC is committed to enriching the lives of its students, faculty, staff, and community by providing a diverse campus where the safe exchange of ideas, knowledge, and perspectives is an active part of learning.

Counseling and Campus Wellness

College Community Center, Room 129, 307.778.4397

LCCC's professionally licensed, mental health staff provides full-service counseling, which includes individual and group counseling, psychological assessment, workshops, seminars, crisis intervention, and referral. All LCCC enrolled students are eligible for free confidential counseling services, regardless of age, ethnicity, gender, disability, race, religion, sexual orientation, or progress toward academic degree. LCCC is a Safe Zone (a safe, inclusive, and positive educational environment) for all individuals seeking services.

Students experiencing a mental health crisis during regular office hours can stop by the Counseling and Campus Wellness Center for help in determining an appropriate course of action. If a crisis occurs during evening or weekend hours, call 911 and campus safety. Students at the Albany County Campus should call 307.772.4254.

The free student health clinic is available to students. Students may seek assistance from health professionals for minor illnesses and injuries. The Clinic is located within Counseling and Campus Wellness (room 129). Please call 307.778.4397 for hours of operation.

Student Health Insurance

The College offers health insurance to students through Student Assurance Services. Students must have an oncampus presence to be eligible. Information regarding eligibility and pricing is available at http://www.lccc.wy.edu/ services/student-health-services/index.aspx.

Disability Support Services (DSS)

Education and Enrichment Center, Rooms 222-223 307.778.1359; TTY 307.778.1266

Disability Support Services (DSS) at LCCC provides services and resources intended to facilitate equal access for students with disabilities to participate in courses, programs, activities, and services. The DSS office provides a variety of accommodations on a case-by-case bases for students who have documented disabilities. All services are provided free of charge to LCCC students.

DSS maintains a library of resource information including disability issues, available college scholarships for students with disabilities, ADA facts and regulations, tips for college students with ADD and/or learning disabilities, and much more.

Students who have questions or who need to set up accommodations should call 307.778.1359 or email DSS@lccc.wy.edu for an appointment with a DSS staff member. Students at the Albany County Campus should call 307.721.5138.

Student Planning and Success

Student Planning & Success includes the services of Advising, the Career Center, and TRIO Student Support Services. All services are located in the College and Community Center, Room 128.

The Advising Center

College Community Center, Room 128, 307.778.1214 Albany County Campus, 307.721.5138

At LCCC, the holistic advising partnership between advisors and students is a continuous, interactive process that empowers students to make informed decisions and facilitates the achievement of academic, career, and personal goals.

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- All degree, certificate, and credit diploma seeking students new to LCCC are assigned a professional advisor with whom they'll work throughout their career at LCCC.
- Through this partnership, advisors and students share the responsibility for student success that continues throughout the students' time at LCCC.
- Advisors assist students in learning the College academic policies and processes, adopting successful student behaviors, and clarifying goals.
- Students will work closely with program faculty as well to maximize opportunities in their chosen program of study.

The Career Center

307.778.1132

The LCCC Career Center provides career-related services in order to partner with students and alumni in the development and implementation of a personalized career plan through:

- Identifying students values, interests, skills, and personality
- Exploring career and major opportunities
- Developing strategies to market students for the job search
- Writing a customized resume and cover letter
- Gaining the confidence and skills to accomplish an impressive interview
- Discovering marketable job experiences that fit the values, interests, skills, and personality early in a students' academic career

TRIO Student Support Services

307.778.4314

TRIO is a federally funded program that assists eligible students to remain in college, graduate, and/or transfer to four-year colleges. TRIO assists students who are low-income, first-generation, and/or have a disability to ensure they achieve their full academic potential. TRIO advisors provide academic, personal, and financial aid advising; mentoring; assistance in identifying and addressing the barriers to educational goals; guidance in developing master academic plans that ensure academic success; and planning for transfer to a four-year program or transition into the workforce. Additional information and applications can be found at http://www.lccc.wy.edu/services/TRIO/index.aspx.

Testing Center

Arp Building, Room 169, 307.778.1105

Numerous tests are available in the following areas: College Level Examination Program (CLEP) tests, DSST (formerly DANTES), LCCC departmental exams, the PN Readiness Test, Kaplan Nurse Entrance Test, and other standardized testing instruments. Academic skills assessment (placement test) is described on Page 14.

Alcohol and Drug Education and Prevention

Counseling and Campus Wellness, 307.778.4397

Laramie County Community College has the responsibility of maintaining an educational environment conducive to academic achievement and of assisting students to be successful. LCCC recognizes that the use and abuse of alcohol and other drugs interfere with students' educational goals and, therefore, is committed to facilitating a drug-free learning environment. Students, faculty and staff have access to education on alcohol and other drugs. As well as educating the college community, LCCC has stringent policies governing the use of alcohol and other drugs on campus or at LCCCsponsored activities.

Students should be aware that according to the Anti-Drug Abuse Act of 1988 (Section 5301), state and federal courts are provided with the ability to deny benefits to students who receive federal financial aid (e.g., Pell Grant). If a student is convicted of drug distribution or possession, the court may suspend eligibility for Title IV financial aid.

Students pursuing certificate or licensure credentials should be aware that conviction of any crime (including drug- and/or alcohol-related offenses) may jeopardize their eligibility to successfully complete licensure requirements and be employed in their chosen field following the completion of a degree program at LCCC. Consult with an academic advisor or the appropriate accrediting agency for more detailed information regarding these restrictions.

The Drug-Free School and Communities Act Amendments of 1989 (Public Law 101-226) requires that Laramie County Community College inform students and employees of the legal sanctions of illicit drugs and alcohol. This information is made available to all campus community members on the LCCC website.

Substance-Free Campus

The Laramie County Community College Board of Trustees and the Student Government Association have enacted a drug and alcohol procedure stating that drugs and alcoholic beverages may not be present on campus or at college-sponsored student activities. (Alcohol may be used for instructional (nonconsumption) purposes with the approval of the instructor and the appropriate school dean.) This procedure states that the college will take disciplinary action for the following violations:

- 1. "The manufacture, possession, use, sale or distribution of narcotics, illegal drugs, drug paraphernalia or prescription drugs for which the person does not have a prescription or being under the influence on college premises or at college-sponsored activities."
- "The manufacture, possession, consumption, sale, or distribution of alcoholic beverages, including public intoxication, on college premises or at college-sponsored activities."

Disciplinary Actions for Drug and Alcohol Violations

Students are responsible for complying with provisions of Wyoming law that make it a crime to possess, sell, deliver or manufacture those drugs designated collectively as controlled substances. Any student who violates the law is subject to prosecution and punishment by the civil authorities and to disciplinary proceedings by the college.

The penalties which may be imposed by the college include verbal warnings, written warnings, restitution, withdrawal agreements, disciplinary probation, disciplinary suspension, summary suspension or expulsion. The following mandatory minimum sanctions apply when students are responsible for violating LCCC's substance-free policies.

A. Trafficking in Illegal Drugs

For students found responsible for the illegal manufacture, sale or delivery, or possession with intent to manufacture, sell or deliver any controlled substance, the minimum penalty shall be summary suspension.

B. Illegal Possession of Drugs

For students found responsible for a first offense involving the illegal possession of any controlled substance, the minimum penalty shall be probation for a period of time to be determined on a case-by-case basis. A person on probation must agree to participate in drug and alcohol information sessions. For subsequent violations involving illegal possession of controlled substances, progressively more severe penalties shall be imposed including possible suspension or expulsion. Refusal or failure to abide by the terms in the probation shall result in possible suspension or expulsion.

C. Alcohol

For students found responsible for offenses involving unlawful possession or consumption of alcohol, the minimum penalty shall be probation for a period of time to be determined on a case-by-case basis. For subsequent violations, a progressive penalty system based on the type of infraction and the circumstances involved will be administered. Additional penalties may include a required compliance in an educational activity, referral for alcohol assessment/counseling, suspension, restitution, voluntary community service, and/or removal from the residential living and learning system, if applicable.

Student Success Center

The Student Success Center (SSC) provides free tutoring for all LCCC students enrolled in one credit hour or more. The SSC supports student success through tutoring that fosters independent, active learning. While the tutors do not proofread, edit, or otherwise check graded work for correctness, they will help students become more independent by demonstrating appropriate study strategies while guiding students through subject matter.

One-time or long-term tutoring is available six days a week – mornings, afternoons, evenings and Saturdays. Students should contact the SSC to schedule an appointment or to ask about drop-in hours. Free online tutoring is also available through smarthinking.com. Log-in and password information is available in Room 429 of the Ludden Library & Learning Commons.

Writing & Communications Center

Ludden Library & Learning Commons, Room 430, 307.778.1311 • writingcenter@lccc.wy.edu

The Writing & Communications Center is a free, walk-in tutoring service for reading, writing, and public speaking. It is located in the Ludden Library & Learning Commons, inside the Library Instruction Room, and is staffed by experienced tutors, including LCCC faculty volunteers. Tutors visit with students for 15-20 minutes to guide their work in any phase of the writing and/or speech-planning process, from brainstorming, to outlining, to discussing revision strategies on completed drafts. Tutors also provide sessions in conversational English for ESL students, as well as feedback on "practice runs" in preparation for graded presentations. Tutors do not edit or proofread, but provide instruction to aid students in identifying and correcting their own errors in grammar and/or punctuation.

LCCC Exam Lab

Education and Enrichment Center, Room 224, 307.778.1274

The Exam Lab administers make-up exams, telecourse and online exams, exams for students with testing accommodations, graduation exit assessment, Pearson VUE and other professional certification tests, distance learning exams from LCCC as well as other institutions (there is a small fee for exams from other institutions). Students at the Albany County Campus should contact the ACC Testing Center at 307.772.4262 for details and information.

Adult Career and Education System (ACES)

LCCC Campus, Career and Technical Building, Rooms 111 and 113 (offices), 307.637.2450

Eastern Laramie County Campus, 607 Elm Street, Pine Bluffs, WY 82082, 307.245.3595

The Adult Career and Education System (ACES) provides day and evening classes in Adult Education (AE), High School Equivalency Certificate (HSEC) preparation, Adult Secondary Education (ASE), and English Language Acquisition (ELA). The classes are noncredit and are available for residents 16 years of age or older in Laramie County. ACES is open fall, spring, and summer semesters.

Adult Education (AE)

AE provides individualized instruction for those students wanting to upgrade their basic reading, writing, and math literacy skills.

High School Equivalency Certificate (HSEC) Preparation

Instruction is provided to prepare students to complete the High School Equivalency Certificate (HSEC). Classes include reading, writing, math, science, social studies, and college and career transitions. Students who are 16 or 17 years of age must complete age waiver requirements through ACES prior to taking the tests.

Adult Secondary Education (ASE)

ASE provides instruction for students who have their high school diploma or equivalent and want to improve their basic skills to upgrade their employment opportunities or pursue further education. Classes offered include reading, math, writing, and college transitions.

English Language Acquisition (ELA)

The English Language Acquisition program provides opportunities for students to reach their language goals such as understanding, speaking, reading and writing the English language. Students will become more integrated into society by learning about American culture, customs and the rights and responsibilities of citizenship. The classes are designed for the non-native speaker of English.

Bookstore

Cheyenne Campus, 307.778.1114 Albany County Campus, 307.432.1667

The LCCC Bookstore is open Monday through Friday. The Bookstore sells new and used books, school supplies, and college novelty items. Other services include refunds, used book buy-backs and special orders (check with the Bookstore for policies). The Bookstore is closed on holidays, weekends and student breaks.

Annual Student Right to Know/ Campus Security Report

In compliance with federal law No. 101-542, the Student Rightto-Know and Campus Security Act of 1990, Laramie County Community College provides crime statistics for the college for the past three calendar years and the campus security plan.

Crime Statistics

As required by law, the LCCC campus crime statistics annual report is provided on the LCCC Website under Compliance & Consumer Information: lccc.wy.edu/about/compliance and on the Campus Safety web link http://www.lccc.wy.edu/services/ security/crimeReporting.aspx. It is also available in the office of the Director of Campus Safety (Business 213).

The Campus Safety Office prepares incident reports on reported crimes and all other incidents on campus. Any criminal activity is reported immediately to the Laramie County Sheriff's Department.

When a crime or crime problem occurs, Campus Safety notifies the student newspaper of the incident to inform students and employees of the occurrence and to recommend precautionary measures to avoid any further similar incidents.

A daily crime log is available for public inspection at the offices of Campus Safety, in the Ludden Library & Learning Commons, and at Student Services. The crime log is also updated on the Campus Safety pages of the College's website.

Campus Safety Plan

Walkways on the campus and all parking lots are well lighted. Regular security evaluations of the campus are conducted and improvements are implemented when needed.

LCCC has installed free courtesy/security telephones at strategic locations throughout the campus. On the wall adjacent to each telephone are instructions on what to do in the event of crimes and other emergencies. LCCC also has emergency call boxes located outside of buildings throughout the campus.

Automated Electronic Defibrillators (AEDs) are strategically placed throughout campus and in Campus Safety patrol vehicles. These are for use by members of the public or campus community in the event of an emergency requiring such medical equipment.

The college employs a Campus Safety force on a 24-hour, 365-day-a-year basis. The Laramie County Sheriff's Department responds to activities of a criminal nature. Because of its high patrol activity in the vicinity of the campus, response time by the Sheriff's Department is typically under two minutes. The Sheriff's Department, the fire department, and/or emergency medical services can be contacted at 307.637.6524 or by dialing 911 (9-911 from a campus hard line phone).

Campus Safety Officers, while unable to make arrests, are employed to enforce traffic and parking regulations; enforce

college rules, regulations, and policies, and assist distressed motorists; make building security checks; and assist students, employees, and the general public in ways to make their time on campus a safe and satisfying experience. Campus Safety Officers are certified in Basic First Aid, CPR, use of AEDs and blood-borne pathogens. For further information, please contact Campus Safety at 307-630-0645. Campus Safety maintains patrol offices in the Modular Building (MA103, MA105, MA107, MA108) and in the Student Services area (SS113 and SS114). The Laramie County Sheriff's Department is allowed to use MA105 as needed. The Director of Campus Safety's office is located in the Business Building (B213; Telephone: 307.778.1340).

Campus Safety patrol officers may be contacted via cell phone at 307.630.0645. Campus Safety should be contacted to report crimes, suspicious activity, or emergencies.

The LCCC Emergency Response Plan can be accessed on EaglesEye. This plan is also posted in offices throughout the campus and in the residence hall.

Graduation, Transfer and Persistence Rates of LCCC Students

Graduation and Transfer Rates

The following information is provided in compliance with federal regulations as found in Title 34 of the Code of Federal Regulations (34 CFR 668.45, 668.48).

During the 2012 fall semester, 346 first-time, full-time, degree- or certificate-seeking students enrolled at Laramie County Community College (LCCC). Of this group, referred to as the fall 2012 graduation rate cohort, 76 (21.97%) had graduated from LCCC and 84 (24.28%) had transferred to another college or university by August 31, 2015.

The fall 2012 graduation rate cohort included 41 students who received student aid related to an athletics program. Of this group, 17 (41.46%) had graduated from LCCC and 14 (34.15%) had transferred to another college or university by August 31, 2015.

Graduation and transfer rates for the overall cohort and the cohort of students who received athletics-related aid by gender, race/ethnicity, and type of federal student aid received, at http://lccc.wy.edu/about/statistics/graduates.

Persistence Rate

The following information is provided in compliance with federal regulations as found in Title 34 of the Code of Federal Regulations (34 CFR 668.41(d)(4)).

During the fall 2014 semester, 347 first-time, full-time, degree- or certificate-seeking students enrolled at Laramie County Community College (LCCC). Of this group, 211 (60.81%) were still enrolled at LCCC or had graduated as of October 2015.

Anyone with additional questions should contact the Director of Institutional Research at 307.778.1113.

Vehicles on the Cheyenne Campus

All vehicles operated on the Cheyenne campus are subject to traffic and parking regulations established by the Laramie County Community College Board of Trustees and the Student Government Association. Parking permits are not required except in the residence halls parking lot.

Student Life

College Community Center, Rooms 109, 109A, 307.778.1108

The Student Life team provides co-curricular opportunities for students to develop friendships and skills to successfully achieve their academic and personal goals. Student Life activities and services build a strong campus community by sponsoring quality educational, leadership, social, recreational, diversity, family, and community service activities, providing personal support, and guiding student conduct.

Getting involved with Student Life provides the opportunity to learn and grow while working in partnership with others. Students participate in rewarding and fun-filled experiences to expand leadership skills and knowledge. Student Life provides a playful but purposeful learning environment, opportunities to connect with others, and support in personal discovery. LCCC values a diverse community, honest and open communication, respect for self and others, and life-long learning.

Student Government Association (SGA)

College Community Center, Student Lounge, 307.778.4336

All students registered for credit classes at LCCC may consider themselves to be members of the Student Government Association (SGA). SGA senators represent the students at the collegiate, community and state levels. SGA responds to students' needs and voices their perspectives to LCCC administration. SGA is also responsible for the distribution of Student Activity Fees. Senators serve with integrity, professionalism and impartiality in their role as liaisons between students, faculty and staff. SGA strives to improve the campus for all students by providing a forum for student concerns as well as programs and activities to benefit the college and community.

Campus Activities Board (CAB)

College Community Center, Room 141, 307.778.1119

The Campus Activities Board (CAB) is a group of students who provide activities to make the college experience more enjoyable. CAB sponsors Weeks of Welcome, service learning, family fun nights, educational awareness weeks and many other social and recreational activities. CAB is always in need of creative and talented students to help plan and organize activities. Being involved with CAB gives students many opportunities to meet people and make new friends. Students also improve their leadership skills and enhance their career preparation by improving planning, organizational and communication skills.

The mission of Campus Activities Board is to enrich our student's lives through activities to inspire collaboration, cultural awareness, and learning through engagement.

CAB is a programming ally for the student body and student organizations. Ultimately CAB seeks to make LCCC students' college experience engaging and more enjoyable through the following:

- 1. Provide collaboration opportunities for students to work with one another to host and organize events on campus.
- 2. Provide engaging activities to promote cultural and diversity education.
- 3. Provide faculty opportunities to partner with campus activities to help promote learning in coursework.

4. Instill a sense of belonging within the campus community.

For more information about CAB at the Albany County Campus, students should call 307.721.5138.

Residential Living and Learning

Residence Hall Community Center, 307.637.2498

The LCCC student housing complex is in a comfortable campus setting with easy access to classrooms, computer labs, a fully equipped physical education facility, and the dining room. The Residence Hall Council and Residential Living and Learning staff provide activities, programs, and leadership opportunities to assist students in transition to LCCC, support their academic success, and facilitate the development of lifelong friendships. Students are encouraged to participate in these activities that are designed to provide a safe and enhanced experience in addition to the classroom experience.

Service Learning

307.778.1279

Service Learning combines classroom instruction with community service, focusing on critical, reflective thinking as well as personal and civic responsibility. Service Learning activities involve students in addressing local, communityidentified needs while developing academic skills and commitment to the community. Members of recognized student organizations volunteer in the community to put their academic and leadership skills into action.

Multicultural Student Engagement

LCCC offers services to assist international students on F-1 visas. Orientation, transitional services, academic and personal advising, and assistance with housing and issues with the United States Citizenship and Immigration Services (USCIS) are provided to international students at LCCC. Interested students, faculty, staff, and community members also have the opportunity to learn more and expand their cultural awareness through the International Student Association. International students at the Albany County Campus should call 307.721.5138 for more information.

Recognized Student Organizations

College Community Center, Room 140, 307.432.1630

Student organizations are recognized to enhance the educational, social, cultural, professional, spiritual, and/or recreational experiences of students. Recognized student organizations may be clubs or teams and are classified as instructional or student service organizations. Instructional clubs or teams are associated with, or are an extension of, a specific academic school or program. Students wishing to develop a new club should visit Student Life for current recognition procedures.

Student Life will support officially recognized student organizations by providing supplies, publicity materials, monetary and organizational assistance, and leadership training information. Requests for financial assistance should be directed to the office of Student Life. A current list of clubs and teams can be obtained from the office of Student Life.

Student Identification and Library Cards

Campus Safety & Security, Student Services Building, Room 113, 307.630.0645

LCCC students enrolled in credit classes are required to receive a photo student identification card. There is no charge for the initial card; however, a replacement fee will be assessed for lost or stolen cards. Cards will be validated each semester the student is enrolled in classes.

The student identification card entitles students to attend campus activities and events for discounted or free admission and enables students to use various college facilities such as the physical education complex and the student computer center.

The student identification card is also the library card and is required to check out library materials.

Veterans' Information

Student Services Building, Financial Aid Office, 307.778.4396

Laramie County Community College is approved by the state of Wyoming for veterans' training under the Montgomery G.I. Bill and for those training under Dependents' Educational Assistance.

All questions concerning VA eligibility for educational benefits may be directed to the Financial Aid Office. Additionally, the veteran may request assistance directly from the U.S. Department of Veterans Affairs Office, P. O. Box 66830, St. Louis, MO 63166, 1.888.442.4551.

Those applying for VA educational assistance will be provided with the most recent VA requirements concerning attendance and satisfactory academic progress.

Children's Discovery Center (CDC)

Arp Building, Room 146, 307.778.1303

The LCCC Children's Discovery Center on the LCCC campus provides high-quality, child care for students, staff and the community, offering a comprehensive preschool/child care program. Hours of operation are 6:30 a.m. to 5:30 p.m., Monday through Friday, excluding college holidays.

The full-day preschool program is for children 12 months to six years of age, the half-day preschool program is for children four to six years of age, and the part-time preschool program is for children three to five years of age and is based on requests and availability.

The primary goal of the CDC is to meet the developmental needs of young children. Children who attend the CDC receive an early childhood education specifically designed to enhance skill development in all areas of a child's life: intellectual, social, emotional, creative and physical.

At the CDC, children are actively involved as they learn about themselves and their world. The center's curriculum provides a wide variety of enriching experiences that promote the development of a positive self-concept and help foster competencies throughout a lifetime. The LCCC Children's Discovery Center is accredited by the National Association for the Education of Young Children.

Dining Room

College Community Center, 307.778.1318

Food service is available to students from the Dining Room. A variety of food options is available in a food court atmosphere. Meal plan packages are available for purchase that save significantly on per meal costs to any dining service guest. Menus and other information are available online at lcccdining.sodexomyway.com

Athletics

As a member of the National Junior College Athletic Association (NJCAA), LCCC has teams competing in National Junior College Athletic Association sanctioned men's and women's basketball, women's volleyball, men's soccer and women's soccer. The LCCC rodeo team is a member of the National Intercollegiate Rodeo Association, and the LCCC Equestrian Show Team is a member of the International Horse Show Association. For more information, call 307.778.1323 or visit lccc.wy.edu/athletics/index.aspx

Office of Scholarships and Financial Aid

Student Services Building, 307.778.1215

Each year, LCCC students receive more than \$15 million in financial assistance from federal, state, LCCC, and private donors. For information about the financial aid process, eligibility requirements, and available assistance, visit lccc.wy.edu/services/financialaid.

Lifelong Learning

Rather than enrolling in a complete degree or certificate program, many students prefer to take selected courses that help them pursue, personal goals. For some, this means courses that will help them as employees or as business owner. Others simply want to know more about their world, whether it's government, psychology, literature, science, computers, automotive technology, physical fitness or art. Others are exploring new career or educational directions or want to examine other approaches to living and learning. For many diverse reasons, LCCC has a wide variety of offerings and services available to interested students.

Life Enrichment

LCCC's Life Enrichment program enhances peoples' lives through lifelong learning opportunities. Life Enrichment classes help people to learn new skills, Life Enrichment classes give people an opportunity to learn a new hobby, enhance existing talents, and socialize with others who have the same interests. People can enjoy a variety of classes including quilting, swimming, rock climbing, computer software programs, and dog training.

The Life Enrichment program serves a diverse array of students from children to senior citizens.

Facilities and Events

The Facilities and Events office serves the campus and community by providing facility scheduling and facility rental to individuals and groups. Activities and events are scheduled in the Center for Conferences and Institutes, the Training Center, the Physical Education Building, the college arena, and other campus spaces. The Facilities and Events office coordinates with campus service areas to provide catering, audiovisual equipment, and event setup support to individuals and groups renting facilities at LCCC.

For more information call 307.778.1291.

Business Training and Development

The Business Training and Development programs at LCCC help businesses meet performance, productivity, and profitability goals by providing employees with the customized training needed for organizational success.

Classes are designed to support all levels of organizations, from the frontline worker to the executive management team. Classes are offered as open enrollment or can be customized to meet the specific needs of an organization.

Academic Degrees and Certificates

Degrees and Certificates

Laramie County Community College offers students four degrees and numerous certificates of completion:

Associate of Arts Degree (AA)

Associate of Science Degree (AS)

Associate of Applied Science Degree (AAS)

Associate Degree of Nursing (ADN)

- Credit Certificate
- Credit Diploma

Certificate of Completion

The Associate of Arts Degree (AA) and The Associate of Science Degree (AS)

These degrees prepare students for transfer to a baccalaureate degree program. The Associate of Arts degree is designed for students majoring in arts, humanities, social sciences and education areas. The Associate of Science is designed for students majoring in sciences, technology, agriculture, engineering, business and mathematics. Baccalaureate programs vary considerably; therefore, students are urged to obtain specific information regarding requirements of the transfer institution and the assistance of an LCCC advisor.

The Associate of Applied Science Degree (AAS)

This degree is designed for students planning to enter the workplace upon degree completion. This degree has substantial applied coursework associated with the fields of study.

The AAS degree typically can be transferred into a Bachelor of Applied Science (BAS) degree at some colleges and universities. Courses within the AAS degree programs may be accepted at a four-year college or university if the student is transferring into degrees other than the BAS. Students anticipating transfer are encouraged to consult with an advisor and carefully check the requirements of the institution and program into which they plan to transfer.

The Associate Degree in Nursing (ADN)

This degree is designed for students majoring in nursing. This degree has substantial applied coursework and allows the student to enter the workplace upon degree completion. The ADN degree typically can be transferred into a Bachelor of Science in Nursing (BSN) degree at some colleges and universities. Students anticipating transfer are encouraged to consult with an advisor and program faculty to carefully check the requirements of the institution and program into which they plan to transfer.

Credit Certificate

The credit certificate is designed to prepare students for immediate entry into or advancement in the workplace. This certificate is granted to a student upon completion of a coherent list of academic credit courses, which is less than the requirement for an associate degree. Credit Certificate is a short program of study, between 30-45 credits with the expectation that the certificate can be completed in, at most, one academic year, which may include a summer semester.

Credit Diploma

The credit diploma is designed to prepare students for immediate entry into or advancement in the workplace. This credential is granted to a student upon completion of a list of academic credit courses, which is less than either an associate degree or a credit certificate. Credit Diploma is a very short program of study, between 12-29 credits with the expectation that it can be completed in one academic semester.

Certificates of Completion

The certificate of completion is designed for occupational programs that specifically prepare students for immediate employment. General education courses are not required; however, general education concepts are integrated into certificate courses. Courses taken in the certificate program may apply toward an associate degree.

Students desiring to further their education are encouraged to submit their certificates, licenses or transcripts to the Student Records Office for evaluation. As many as 49 semester hours may be applied toward an Associate of Applied Science degree for previous technical training and experience.

Laramie County Community College cooperates with various public and private institutions so that transfer students may be granted the maximum possible number of credits for technical training. The additional courses needed to complete an Associate of Applied Science degree are taken from LCCC and are selected based upon published degree requirements and the advisor's recommendations.

In those cases in which course work is transferred and applied toward certificates or licensure, students may be asked to demonstrate competency.

General Education Completion

General Education Transfer Block

The LCCC General Education Transfer Block is the designation for the completion of the LCCC General Education Core and assists in transfer to a baccalaureate program. The Transfer Block carries no specific designation of field of study and is incorporated within all LCCC Associate of Arts (AA) and Associate of Science (AS) degree programs. The LCCC Transfer Block is designed to align with the general education requirements of partnering universities and in many cases transfers as completion of the receiving institution's general education core. Students do not pursue the Transfer Block as a stand-alone program, but rather satisfy the requirements along the pathway to completing an AA or AS degree.

Interstate Passport

The Interstate Passport enables successful transfer of a block of lower-level general education learning to other institutions participating in the Interstate Passport Network. Students who complete their Passport at LCCC will not be required to repeat course work to meet lower division general education requirements in the Passport's nine areas when they transfer to a participating institution in another state. LCCC will begin transcripting the Interstate Passport following the Fall 2016 semester. Students with an interest in achieving the Passport should contact their Advisor.

Online Degree Programs

All LCCC degrees and certificates are accredited, including online degrees and certificates, through the Higher Learning Commission of the North Central Association of Colleges and Schools. A variety of courses, certificates, and degrees is available online to assist students in meeting their educational goals. Students should discuss their educational plans with an advisor.

Assessment of Student Learning

Assessment of student learning is an integral and ongoing component in Laramie County Community College's effort to continuously improve and strengthen itself so that the college may more effectively meet the needs of the learner. In addition, the assessment of student learning provides information used to determine if students are learning what the institution expects them to learn. The success of the student learning assessment process depends on the commitment of the administration, faculty, and staff to excellence in programming and services. Continuous assessment of student learning ensures that informed and professional choices are made to improve the learning experience and academic achievement of students.

The college assesses student learning in a variety of ways. Students will be asked to participate in assessment activities designed to measure achievement in their courses and programs of study and of general education core abilities. Students applying for graduation with an associate degree will complete an academic evaluation of their learning experience at LCCC.

Graduation Requirements

All Degrees:

- 1. Successfully complete a minimum of 60 semester hours with a grade point average of 2.0 or better at course level of 1000 or higher. (ENGL 1001 does not apply.)
- 2. Complete the general education degree requirements indicated on the following page for the AA, AS, AAS, or ADN degrees.
- 3. Meet the state statutory requirement for instruction in the constitutions of the United States and Wyoming by completing one of the following:

POLS 1000 – American and Wyoming Government (3 credit hours) -or-HIST 1211 – U.S. to 1865 (3 credit hours) -or-HIST 1221 – U.S. from 1865 (3 credit hours) -or-HIST 1251 – Wyoming History (3 credit hours) -or-ECON 1200 – Economics, Law, and Government (3 credit hours)

Exception: Students who have earned credit for American Government or U.S. History at an out-of-state college or

by advanced placement but have not fulfilled the Wyoming Constitution requirement may complete the one-credit hour POLS 1100 instead of one of the above courses.

- 4. Complete 15 semester hours from Laramie County Community College applied toward graduation.
- 5. Obtain an advisor's signature indicating that program requirements have been met before filing an application for graduation.
- 6. File a graduation application at the Student Records Office. A non refundable graduation fee of \$20 to cover application and diploma expenses must accompany the application. A cap and gown fee is required to participate in graduation ceremonies. Students planning to graduate should consult the college calendar for the application deadline. If a student does not meet all the requirements for graduation and at a later date completes them, the student should reapply. The graduation fee will not be required for reapplication.

Multiple Associate Degrees from LCCC

- 1. It is permissible for a student to earn more than one degree at LCCC.
- 2. A student may receive as many degrees at graduation as he or she has earned at that point.
- For each degree earned, a student must successfully complete a minimum of 15 additional credits from LCCC. A student may concurrently earn two degrees by achieving 30 hours from LCCC.
- 4. Students must complete the degree requirements for a second degree as listed in the current year's catalog.
- 5. A maximum of 45 semester hours of credit from the first degree may be applied toward the second degree.
- 6. Students must consult an advisor when planning a degree.

General Education Competencies

The general education component is a purposeful program of students educational activities that builds a mature understanding and appreciation of diverse cultures and the human condition, the mastering of multiple modes of inquiry, the ability to effectively analyze and communicate information, and the recognition of the importance of creativity fundamental to lifelong intellectual growth.

General Education/ Institutional Competencies

At LCCC, the mechanism by which student learning outcomes are assessed is the competency. A competency is a specific, measurable statement of what students know or are able to do upon completion of a course or program of study. LCCC's general education curriculum program is derived from the College's general education/institutional competencies. Institutional competencies are the overarching skills that students develop throughout their education experience at LCCC and are able to demonstrate upon graduation.

All graduates of LCCC's certificate and associate degree programs will have completed a robust curriculum that builds the competencies and abilities necessary for students to engage successfully as citizens in a globalized, competitive, and socially interconnect world, regardless of their chosen career field. Therefore, LCCC has established a blueprint for academic success based on the following four general education outcomes that are incorporated throughout the curriculum.

Reasoning

- 1. Quantitative reasoning Students' ability to represent and interpret mathematical information and apply it to a task
- 2. Scientific reasoning Students' ability to observe, hypothesize, test, analyze, interpret and reflect on scientific phenomena
- 3. Problem solving Students' ability to analyze a task, apply tools, execute a plan, and reflect on its effectiveness

Effective Communication

- 1. Written communication Students' ability to effectively communicate in writing
- 2. Verbal communication Students' ability to effectively communicate verbally when giving presentations

Collaboration

1. Students' ability to foster teamwork, consider needs of partners, and work toward a specific goal as part of a team.

Human Culture

1. Cultural awareness – Students' ability to distinguish the complexity of cultural elements important to members of a culture

2. Aesthetic analysis – Students' ability to analyze objective and subjective characteristics of art, music, performance art, literature, architecture, mass media, humanities and other forms of artistic expression

Core Curriculum Requirements for the Associate Degree

The general education component and core curriculum are guided by Laramie County Community College's student learning core abilities and are designed to be in alignment with Wyoming statutory requirements, Wyoming Community College Commission recommendations, and the accreditation criteria set forth by the Higher Learning Commission.

The specific courses listed below are designed to fulfill general education categories for associate degree programs and are taken in conjunction with the specific course requirements for each program of study and degree completion requirements. Individual programs of study require specific core courses from the list below, so students should contact their program advisors prior to registration to ensure the proper selection of courses for their desired majors. Students are advised that delays in graduation may result if they change their majors due to these specific course requirements. The General Education Procedure can be found at lccc.wy.edu/Documents/General-Education-Procedure.pdf

LCCC Competency-Based General Education Requirements							
Credits	LCCC General Education Core Requirements	Approved Courses					
College	e Seminar (Required for A	AA, AS, AAS and Credit Certificates)					
3	College Seminar (CS)	 College Seminar (CS) Approved Courses: COLS 1000* Introduction to College Success: First Year Seminar (3 cr.) (see Page 37 for more information) 					
Comm	unication: Written and	Verbal (Required for AA, AS, AAS and Credit Certificates)					
3	At least three credits from a course that satisfies the Written Communication (CW) competencies.	 Written Communication (CW) Approved Courses: ENGL 1010 English I: Composition (3 cr.) 					
3	At least three credits from a course that satisfies the Verbal Communication (CV) competencies.	 Verbal Communication (CV) Approved Courses: CO/M 2010 Public Speaking (3 cr.) CO/M 1015 Foundations of Communication (3 cr.) (for AAS and Certificate Programs only) CO/M 1030 Interpersonal Communication (3 cr.) (CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for AAS degrees only for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.) 					

LCCC Competency-Based General Education Requirements							
Credits	LCCC General Education Core Requirements	Approved Courses					
Quanti	tative Reasoning (Requ	uired for AA, AS, AAS and Credit Certificates)					
3	At least three credits from a course that satisfies the Quantitative Reasoning (QR) competencies	Ouantitative Reasoning (OR) Approved Courses: • MATH 1000					
U.S. / V	Wyoming Constitution	Statutory Requirement (Required for AA, AS and AAS)					
3	At least three credits from a course that satisfies the U.S. / Wyoming Constitution statutory requirement (WY)	 U.S. /Wyoming Constitution statutory requirement (WY) Approved Courses: ECON 1200 Economics, Law, and Government (3 cr.) HIST 1211 U.S. to 1865 (3 cr.) HIST 1221 U.S. from 1865 (3 cr.) HIST 1251 Wyoming History (3 cr.) POLS 1000 American and Wyoming Government (3 cr.) POLS 1100 Wyoming Government (1 cr.) (Students who have earned credit for American Government or U.S. History from a regionally accredited institution outside of Wyoming or by Advanced Placement must complete POLS 1100 to satisfy the Wyoming Constitutional requirement.) 					
Scient	ific Reasoning: Labora	atory (LAB) Science (Required for AA and AS)					
3-4	At least three credits from a course that includes a laboratory (LAB) component and satisfies the Scientific Reasoning competencies	Laboratory (LAB) Science Approved Courses:• AECL 1000					

LCCC Competency-Based General Education Requirements						
Credits	LCCC General Education Core Requirements	Approved Courses				
Scient	ific Reasoning: Techno	logy, Engineering, Mathematics (STEM) (Required for AA and AS)				
3	STEM: At least three credits from a course that satisfies two of the three competencies listed; Quantitative Reasoning, Scientific Reasoning, Problem Solving (STEM)	STEM Approved Courses: ASTR 1050 Survey of Astronomy (4 cr.) BIOL 1010 General Biology (4 cr.) BIOL 2022 Animal Biology (4 cr.) CHEM 1000 Introductory Chemistry (4 cr.) CHEM 1020 General Chemistry II (4 cr.) CHEM 1030 General Chemistry II (4 cr.) COSC 1200 Computer Information Systems (3 cr.) GEOG 1040 Mobile Mapping with GPS (3 cr.) GEOG 1050 Introduction to Environment and Natural Resources (3 cr.) GEOG 1020 Introduction to Geographic Information Systems (3 cr.) GEOC 1035 Geology of Yellowstone National Park (3 cr.) MATH 1000 Integrated Problem Solving Quantway II (3 cr.) MATH 1010 Problem Solving (3 cr.) MATH 1400 College Algebra (3 cr.) MATH 1400 College Algebra (3 cr.) MATH 1400 College Algebra (3 cr.) MATH 1400 Colleulus Algebra/(1 cr.) MATH 1400 College Algebra (3 cr.) MATH 1250 Business Calculus 1(4 cr.) </th				

LCCC Competency-Based General Education Requirements							
Credits	LCCC General Education Core Requirements	Approved Courses					
Humar	Culture: Cultural Awa	areness (CA) (Required for AA and AS)					
3	At least three credits from a course that satisfies the Cultural Awareness (CA) competencies.	Cultural Awareness (CA) Approved Courses:AGEC 1010Apriculture Economics 1 (3 cr.)AMST 2110Introduction to American Studies (3 cr.)AMST 2110Cultural Diversity in America (3 cr.)ANTH 1200Introduction to Cultural Anthropology (3 cr.)ART 2010Art History 1 (3 cr.)COVM 1030Interpresonal Communication (3 cr.)COVM 1030Interpresonal Communication (3 cr.)ECON 1000Global Economics (3 cr.)ECON 1010Principles of Macroeconomics (3 cr.)ECON 1010First Year French 11 (4 cr.)FREN 1010First Year French 11 (4 cr.)GEOG 1020Human Life Span Development (3 cr.)GEOG 1020Human Geography (3 cr.)GEOG 1020Human Geography (3 cr.)HIST 1110Western Civilization 11 (3 cr.)HIST 1121U.S. to 1865 (3 cr.)HIST 1221U.S. to 1865 (3 cr.)HIST 2200J.S. to 1865 (3 cr.)HIST 2200J. American Revolution (3 cr.)HIST 2200J. Ancient Rome (3 cr.)HIST 2200History of Christianity (3 cr.)HIST 2200History of North American Indians (3 cr.)HIST 2200History of North American Indians (3 cr.)HIST 2200History of North American Indians (3 cr.)HIST 2300History of North American Indians (3 cr.)HIST 2300History of North American Indians (3 cr.)HIST 2200History of North American Indians (3 cr.)HIST 2200History of North American Indians (3 cr.)HIST 2320/RELI 2320History of North Ame					

LCCC Competency-Based General Education Requirements									
Credits	LCCC General Education Core Requirements	Approved Courses							
Human Culture: Aesthetic Analysis (AA) (Required for AA and AS)									
3	At least three credits from a course that satisfies the Aesthetic Analysis (AA) competencies.	Aesthetic Analysis (AA) Approved Courses: • ART 1000. General Art (3 cr.) • ART 1010. General Art: History (3 cr.) • ART 1050. Beginning Drawing (3 cr.) • ART 1110. Foundation: Two Dimensional (3 cr.) • ART 2010. Art History I (3 cr.) • ART 2010. Art History I (3 cr.) • ART 2020. Art History II (3 cr.) • ART 2410. Ceramics I (3 cr.) • ENGL 2020. Introduction to Literature (3 cr.) • ENGL 2040. Creative Writing (3 cr.) • HUMN 1010 Introductory Humanities I (3 cr.) • HUMN 1020 Introductory Humanities II (3 cr.) • MUSC 1000. Introduction to Music (3 cr.) • MUSC 2024. World Music (3 cr.) • MUSC 2055. Music History Survey I (3 cr.) • MUSC 2055. Music History Survey II (3 cr.) • THEA 1000 Introduction to Theater (3 cr.) • THEA 2000. Theatre Production (3 cr.) • THEA 2010. Backgrounds of Drama I (3 cr.) • THEA 2010. Backgrounds of Drama I (3 cr.) • THEA 2000. Backgrounds of Drama I (3 cr.) • THEA 2100. Acting II (3 cr.) </th							

*COLS 1000 – Introduction to College Success Exemption

Students learn academic success skills, explore life and career goals, develop a support system to connect to campus, and prepare for responsible lives in a dynamic and interdependent world in the COLS 1000 course. LCCC recognizes that students may have already achieved the learning outcomes and competencies of COLS 1000 through prior learning. Students may request an exemption from COLS 1000 if they meet one of the following requirements:

- Student has completed a credit-bearing Credit Diploma, Credit Certificate, AAS, AA, AS, or higher degree from a regionally accredited institution.
- Student has successfully completed a minimum of 15 college-level credits, which must include college-level English and college-level math, with a GPA of 2.5 or higher at a regionally accredited institution at the time of admission or readmission.
- Student has successfully completed a minimum of 24 college-level institutional credits with a GPA of 2.5 or higher at the time the student submits a formal change of program.
- Student has transferred a minimum of 15 military credits (Joint Services Transcript).

The COLS 1000 Exemption Form should be completed by the student and his/her academic advisor, and submitted to the Office of the Registrar for review and final approval.

Pathways to Success

This program is designed for high school students who might not be planning to attend college. This may include lowincome students and/or first-generation college students. Through this program, high school students participate in social activities, seminars, and summer workshops designed to help them prepare for college.

LCCC/University of Wyoming Precollege Program

LCCC offers Precollege courses on the University of Wyoming campus for both University of Wyoming and non-University of Wyoming students. The university in return offers select upper division courses for LCCC and University of Wyoming students.

Additional Academic Resources

LCCC/University of Wyoming Off-Campus Bachelor's and Master's Programs

Combining courses at LCCC with University of Wyoming courses delivered in Cheyenne, Cheyenne-based students can complete several bachelor's and master's degree programs as off-campus students. The University of Wyoming Southeast Regional Office is in the LCCC Career and Technical Building. Call 307.632.8949 for more information.

Articulation Agreements

Articulation agreements are in place with the University of Wyoming and other transfer institutions for specific programs. The articulation agreements ensure that the academically successful student who selects and follows an articulated major can transfer to the specified institution and complete the baccalaureate degree within the period of time that such a degree would normally be completed at that institution. Articulated programs are denoted within the program description in the catalog and require students to complete a very specific course sequence. It is recommended that students speak with their advisor and program faculty to ensure that courses in the chosen programs are aligned for maximum transferability. Detailed information about existing articulation agreements LCCC has with several four-year institutions is available at http://lccc.wy.edu/academics/ policies/articulation-agreements.aspx.

Programs of Study by Degree

Associate of Arts (AA)

Anthropology	47
Art	
Criminal Justice – Corrections/Pre-Law	63
Criminal Justice – Law Enforcement.	64
Education	73
Education – Early Childhood Education	74
Education – Elementary Education Concentration	75
English	81
Government Studies	90
History	97
History – Digital History Concentration	99
History – Religious Studies Concentration	100
Human Services	
Human Services – Addictionology Concentration	104
Interdisciplinary Liberal Arts	
Interdisciplinary Liberal Arts – Theatre Concentration.	107
Mass Media	108
Mass Media – Multimedia Concentration	109
Music	
Music – Instrumental Education Concentration	
Music – Instrumental Performance Concentration	115
Music – Vocal Education Concentration	117
Music – Vocal Performance Concentration	118
Psychology	
Psychology – Social Work Concentration	
Social Sciences.	140
Spanish – Education Concentration	141
Spanish – Liberal Arts Concentration	142

Associate of Science (AS)

Associate of Applied Science (AAS)

Accounting	41
Agribusiness Technology	43

Agriculture Production Technology46
Automotive Body Repair
Automotive Technology
Business Management54
Computer Information Systems
Construction Management
Cybersecurity
Dental Hygiene
Diagnostic Medical Sonography69
Diesel Technology
Emergency Medical Services – Paramedic
Engineering Technology –
Drafting and Design Concentration
Equine Science – Training Management Concentration 84
Fire Science Technology
Health Information Technology and Management91
Heating, Ventilation, and Air Conditioning/Refrigeration95
Paralegal
Physical Therapist Assistant
Radiography (X-ray)
Surgical Technology143
Technical Studies
Welding Technology146
Wind Energy148

Certificate of Completion

Automotive Body Repair		 			 5	0
Automotive Technology		 			 5	2
Paralegal		 			 . 13	1

Credit Certificate

HIT – Medical Claims Coding Associate.	
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Credit Diploma

Business Management – Entrepreneurship	5
Business Management – Entrepreneurship Business Plan 5	5
CIS – Cisco Certified Networking Associate (CCNA)5	57
CIS – Computer Support Specialist	57
CIS – Computer Technician	8
CIS – Microsoft Systems and Networks	8
CIS – Office Application Specialist	;9
CIS – Web Design	;9
Cybersecurity Fundamentals	6
Cybersecurity Professional	6
Diesel Technology	
Emergency Medical Services – Paramedic	
Engineering Technology	
Exercise Science – Personal Trainer	6
HIT – Medical Office Essentials	92
Basic HVAC/R Technician9	
Advanced HVAC/R Technician9	
Homeland Security 10	
Industrial Maintenance	
Process Technology	\$4
Surgical Technology – Central Sterile Processing14	4
Welding Technology (Combination Welding)14	
Welding Technology (Advanced Pipe Welding)14	7

Online Certificate and Degree Programs

LCCC has been accredited by the Higher Learning Commission to offer courses and degrees via online delivery. Not all courses are available online every semester. Course availability is dependent on scheduling and enrollment. Students are recommended to work closely with their advisor to ensure timely completion of their program of study.

The following programs may be completed through online course delivery:

Accounting
Business Management
Computer Information Systems
Cybersecurity

Education	
Government Studies	90
Health Information Technology and Management Medical Office Essentials	92
Homeland Security	101

Campus resources are available for all students on all LCCC campuses

LCCC-ACC Degrees, Credit Diplomas, and Certifications

The following programs may be completed at the Albany County Campus. Programs marked with an asterisk* require no more than 25% of the coursework to be taken as online classes.

Accounting
Business and Finance
Business Management*
Computer Information Systems
Education

EMT Certification [Labs: Cheyenne-Fall, Laramie-Spring]76
Engineering
History
Interdisciplinary Liberal Arts
Mathematics
Psychology
Technical Studies145

Accounting

Associate of Applied Science

The Associate of Applied Science degree in Accounting is designed to prepare a student for entry-level and supervisory accounting careers in government or industry. This degree is not designed for transfer to a bachelor of science program. Courses taken for satisfactory/unsatisfactory (S/U) grade shall not be applied toward degree requirements.

First Year

i not i cui		
IST SEMESTER	ACCT 2010* BADM 1000* ECON 1000	TITLECREDITSPrinciples of Accounting I3Introduction to Business3Global Economic Issues3
GenEd: CS GenEd: QR	COLS 1000 MATH 1010+ OR	Introduction to College Success: First-Year Seminar 3 Problem Solving 3
GenEd: QR	MATH 1400+ OR HIGHER	College Algebra
2ND SEMESTER		Semester Credits 15
	ACCT 2020* COSC 1200* FIN 1001* FIN 1002* FIN 1003* CMAP 1765*	Principles of Accounting II3Computer Information Systems.3Personal Financial Planning.1Risk and Credit Management1Investment/Retirement Planning.1Spreadsheet Applications3
GenEd: WY GenEd: CW	ECON 1200* ENGL 1010*+	Economics, Law and Government 3 English I: Composition 3 Semester Credits 18
Second Year		
1ST SEMESTER		
	ACCT 2430* ACCT 2450* ACCT 2460* BADM 1020* PSYC 1100*	Income Tax (Fall Only)3Cost Accounting3Payroll Accounting (Fall Only)3Business Communication3Organizational Human Relations.3
GenEd: CV	CO/M 2010*^ OR	Public Speaking
GenEd: CV	CO/M 1015*^ OR	Foundations of Communication
	CO/M 1030*^	Interpersonal Communication
2ND SEMESTER		Semester Credits 18
	ACCT 2110* ACCT 2230* IMGT 2400* MGT 2100	Microcomputer Accounting (Spring Only)3Intermediate Accounting I3Introduction to Information Management3Principles of Management3Choose from Business or Accountingfaculty-approved elective courses.3
		Semester Credits 15
		Total Credits 66

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Accounting

Associate of Science

The Associate of Science degree in Accounting curriculum is designed for transfer to a bachelor of science program. Students should have aptitude for computational work and be willing to undertake the intensive study necessary for success. In addition to general study requirements, the curriculum provides training in mathematics, business, and statistics, thus providing the student with a solid background in the basics. Courses taken for satisfactory/unsatisfactory (S/U) grade shall not be applied toward degree requirements.

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year 1ST SEMESTER	COURSE ACCT 2010*+	TITLE CREDI'	
GenEd: CS GenEd: WY GenEd: CW GenEd: QR	COLS 1000 ECON 1200 ENGL 1010*+ MATH 1400+ OR HIGHER	Principles of Accounting I. Introduction to College Success: First-Year Seminar Economics, Law and Government English I: Composition . College Algebra	. 3 . 3 . 3
	OKINGILK	Semester Credits	15
2ND SEMESTER			
	ACCT 2020* ECON 1010* MATH 2350	Principles of Accounting II Principles of Macroeconomics Business Calculus I	.3 .4
GenEd: AA GenEd: CV	CO/M 2010*	Choose from approved Aesthetic Analysis courses Public Speaking	
		Semester Credits	16
Second Year			
1ST SEMESTER			
	ACCT 2450* ECON 1020* MATH 2355	Cost Accounting Principles of Microeconomics Mathematical Applications for Business	. 3
GenEd: CA GenEd: LAB		Choose from approved Cultural Awareness courses. Choose from approved Lab Science courses. Semester Credits	. 3
2ND SEMESTER		Semester Creaks	17
	ACCT 2230* BADM 2010* IMGT 2400* MGT 2100	Intermediate Accounting I Business Law I Introduction to Information Management Dringiples of Management	. 3 . 3
GenEd: STEM	MG1 2100 STAT 2010* OR	Principles of Management Statistical Concepts – Business	
GenEd: STEM	STAT 2050* OR	Fundamentals of Statistics	. 4
GenEd: STEM	STAT 2070*	Introductory Statistics for the Social Scienc <u>es</u>	
			16
		Total Credits	64

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Agribusiness Technology

Associate of Applied Science

This program of study leads to an Associate of Applied Science degree which is designed for students who wish to complete two years of school and transfer to the workforce. Agribusiness includes all agriculture-related occupations other than production agriculture, and offers the widest range of employment opportunities.

First Year

FALL SEMES		TITLE		DITS
	ANSC 1010	Livestock Production		
	AGEC 1010* AGRI 1010	Agriculture Economics I	••••	
GenEd: CS	COLS 1000	Computers: Agriculture Introduction to College Success: First-Year Seminar	••••	
GenEd: CS	ENGL 1010*+	English L Composition	••••	····>
Geneu: Cw	ENGLIDIO +	English I: Composition	rodite	16
SPRING SEM	FSTED	Semester	leuits	10
SPRING SEIVE	AGEC 1020*	Agriculture Economics II		3
	AECL 1020	Agroecology		
GenEd: WY	ALCL 1000	Choose from approved U.S./Wyoming Constitution course		
GenEd: OR	MATH 1010+	Problem Solving		
Geneu. GR	OR HIGHER	Problem Solving	••••)
GenEd: CV	CO/M 2010*^	Public Speaking		3
Genilu. Cv	OR	Fublic Speaking	••••)
GenEd: CV	CO/M 1015*^	Foundations of Communication		3
denlu. Cv	OR)
	CO/M 1030*^	Internersonal Communication		3
	CO/M 1090	Interpersonal Communication	credits	16
Second Ye	ar			
FALL SEMEST				
	ACCT 2010*	Principles of Accounting I		3
	AECL 2010*	The Ecological Web: Soils.		
	AGEC 2010*	Farm-Ranch Business Records.		
	AGEC 2020*	Farm-Ranch Business Management		
	BADM 2010*	Business Law I		4
	DI IDIVI 2010	Business Law I	redits	17
SPRING SEM	ESTER	Semester	Juito	••
2	ACCT 2020*	Principles of Accounting II		
	AGEC 2395	Capstone Course for Agriculture Majors		
	AGEC 2400*	Farm Credit and Finance.		
	AGEC 2500	Agricultural Trade Policy.		
	ANSC 2020*	Feeds and Feeding		4
		Semester	credits	16
		Total (Credits	65

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Agriculture – Agriculture Business Concentration

Associate of Science

The Associate of Science, Agriculture – Agriculture Business Concentration is designed to allow students to pursue a bachelor's degree in Agriculture Business at a university. An Agriculture Business degree is a versatile degree allowing a student to enter any sector of the food and fiber industry. The degree is taught in an applied sense allowing students to take concepts learned and apply them in their chosen career.

Program Articulation: This degree program is a 2+2 articulation with the University of Wyoming. If a student completes the Agriculture Business Concentration at Laramie County Community College, and completes the courses outlines at the University of Wyoming, they can graduate in four total years with a Bachelor of Agriculture Business or Farm and Ranch Management degree.

First Year

FALL SEMESTE		TITLE CREDITS
GenEd: CS	ANSC 1010 COLS 1000	Livestock Production
GenEd: CS	AGEC 1010*	Agriculture Economics I
GenEd: CW	ENGL 1010*+	English I: Composition
GenEd: QR	MATH 1400+	College Algebra
denEd. an	OR HIGHER	
		Semester Credits 16
SPRING SEMES	TER	
	AGEC 1020*	Agriculture Economics II
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: STEM	BIOL 1010*	General Biology
GenEd: LAB	AECL 1000	Agroecology
		Semester Credits 14
Second Yea	r	
FALL SEMESTE	R	
	ACCT 2010*	Principles of Accounting I
	AGRI 1010	Computers: Agriculture
	AGEC 2010*	Farm-Ranch Business Records
	AGEC 2020*	Farm-Ranch Business Management 4
GenEd: WY	ECON 1200*	Economics, Law and Government 3
		Semester Credits 16
SPRING SEMES		
	ACCT 2020*	Principles of Accounting II
	AGEC 2395	Capstone Course for Agriculture Majors
	AGEC 2400* MATH 2350*	Farm Credit and Finance
GenEd: AA	MATH 2350*	Business Calculus I 4 Choose from approved Aesthetic Analysis courses 3
Geneu: AA		Semester Credits 16
		Total Credits 62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Agriculture – Animal Science Concentration

Associate of Science

The Associate of Science, Agriculture – Animal Science Concentration is designed to allow students to pursue a bachelor's degree in Animal Science at a university. An Animal Science degree allows students to pursue a career in many facets of the livestock production industry.

Program Articulation: This program is a 2+2 articulation with the University of Wyoming. If a student completes the Agriculture: Animal Science Concentration at Laramie County Community College, and completes the courses outlined at the University of Wyoming, the student can graduate in four total years with a Bachelor of Animal Science Livestock Production Options degree.

First Year FALL SEMESTER COURSE TITLE CREDITS ANSC 1010 GenEd: CS COLS 1000 GenEd: CA AGEC 1010* GenEd: CW ENGL 1010*+ GenEd: OR MATH 1400+ **OR HIGHER** Semester Credits 16 SPRING SEMESTER AGEC 1020* GenEd: CV CO/M 2010* GenEd: LAB AECL 1000 GenEd: STEM BIOL 1010* General Biology..... 4 Semester Credits 14 Second Year FALL SEMESTER RGMG 2000* Farm-Ranch Business Management 4 AGEC 2020* CHEM 1000* Introductory Chemistry...... 4 STAT 2010* OR STAT 2050* Fundamentals of Statistics...... 4 OR STAT 2070* GenEd: WY ECON 1200* 3 **Semester Credits** 18 SPRING SEMESTER AGEC 2395 Capstone Course for Agriculture Majors 3 ANSC 2020* Feeds and Feeding 4 BIOL 2022* Animal Biology 4 Choose from approved Aesthetic Analysis courses..... GenEd: AA 3 14 Semester Credits **Total Credits** 62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Agriculture Production Technology

Associate of Applied Science

This program of study is designed for the student who wants to return to or become employable on a farm or ranch. The program will prepare the student for employment in the following areas: farm or ranch foreman or manager, herdsman, feedlot manager, or a job with an agriculture-related industry.

The student's background and experience will be evaluated to determine the exact courses that should be pursued in the development of a personal program for an Associate of Applied Science degree.

First Year

FALL SEMESTE	ER COURSE	TITLE CREDITS		
	ANSC 1010	Livestock Production		
	AGEC 1010*	Agriculture Economics I		
	AGEC 2020*	Farm-Ranch Business Management		
	AGRI 1500	Introduction to Rodeo		
	OR			
	ANSC 1210	Livestock Judging I		
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar		
GenEd: CW	ENGL 1010*+	English I: Composition		
	OTED	Semester Credits 18		
SPRING SEME		A ====================================		
	AECL 1000* AGRI 1010	Agroecology		
	AGRI 1010 ANSC 2020*	Computers: Agriculture		
GenEd: OR	MATH 1010+	Problem Solving		
Geneu: QK	OR HIGHER			
GenEd: CV	CO/M 2010*^	Public Speaking		
denied. ev	OR			
GenEd: CV	CO/M 1015*^	Foundations of Communication		
	OR			
	CO/M 1030*^	Interpersonal Communication3		
		Semester Credits 17		
Second Yea	r			
FALL SEMESTE		The Deale star Web Calls		
	AECL 2010* AGEC 2010*	The Ecological Web: Soils. 4 Farm-Ranch Business Records. 3		
	ANSC 2320	Livestock Health and Management		
	RGMG 2000	Principles of Range Management		
	ANSC 1200	Livestock Fitting and Showing		
	OR			
	AGRI 1510	Rodeo Livestock		
		Semester Credits 15		
SPRING SEMESTER				
	AGEC 2395	Capstone Course for Agriculture Majors		
	AGEC 2400*	Farm Credit and Finance		
	AGEC 2500	Agricultural Trade Policy		
GenEd: WY	ANSC 1260	Livestock Merchandising		
GEIIEU: WI		Semester Credits 14		
Semester Creuits 14				

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Total Credits

64

Anthropology

Associate of Arts

The Associate of Arts degree in Anthropology is designed primarily for the student who plans to transfer to a four-year institution and pursue a Bachelor of Arts degree in anthropology. The program is designed around the requirements set by the University of Wyoming for a four-year degree in anthropology. The program can also help prepare the student in studies other than anthropology including prelaw, premedicine, predentistry, library paraprofessional, administration of justice, and aging and human development.

A foreign language is not required for the Associate of Arts in Anthropology but anthropology majors should be aware that most four-year colleges, including the University of Wyoming, require at least eight hours of a foreign language for the BA degree.

First Year

1ST SEMESTER	COURSE ANTH 1200^	TITLE CRI Introduction to Cultural Anthropology	EDITS
	ANTH 1100^	Introduction to Biological Anthropology	4
	or Anth 1300*^	Introduction to Archaeology	3
	OR ANTH 2210^	North American Indians	3
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar	3
GenEd: CW GenEd: QR	ENGL 1010*+ MATH 1010+	English I: Composition Problem Solving	3
	OR		
GenEd: QR	MATH 1400+	College Algebra	3
	OR HIGHER		
		Semester Credits	15-16
2ND SEMESTER	ANTH 1100^	Introduction to Dialogical Anthropology	4
	OR	Introduction to Biological Anthropology	4
	ANTH 1300*^	Introduction to Archaeology	3
	OR		
	ANTH 2210^	North American Indians	
		Choose from approved elective courses	
GenEd: AA		Choose from approved Aesthetic Analysis courses	
GenEd: CA		Choose from first semester foreign language courses	
GenEd: CV	CO/M 2010*	Public Speaking	3

Second Year

IST SEMESTER		
	ANTH 1100^	Introduction to Biological Anthropology
	OR	
	ANTH 1300*^	Introduction to Archaeology
	OR	
	ANTH 2210^	North American Indians
		Choose from second semester foreign language courses
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
GenEd: LAB	GEOL 1100*	Physical Geology
		Semester Credits 14-15
2ND SEMESTER		
	HIST 2290*	History of North American Indians
	OR	Third semester foreign language
		Choose from approved elective courses
		Choose from approved elective courses
		Choose from approved elective courses
GenEd: STEM	STAT 2070*	Introductory Statistics for the Social Sciences
		Semester Credits 15-16
		Total Credits 61-62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

To meet program requirements ANTH 1200, ANTH 1100, ANTH 1300, and ANTH 2210 are all required to be taken. Courses are offered in particular semesters; see faculty advisor.

Semester Credits 16-17

Art

Associate of Arts

The major in art is intended to educate and assist students in a fundamental understanding of concepts, techniques and methods of form and content within works of art. The art major leads to an Associate of Arts degree and is designed for transfer to a four-year institution and/or for acceptance into art institutes devoted to the advancement of specific art skills.

Non-art majors may wish to study in this area for personal reasons or for application to other program such as web page design, multimedia, and computer graphics.

First Year 1ST SEMESTER COURSE TITLE CREDITS ART 1110* ART 1050 GenEd: CS COLS 1000 GenEd: AA/CA ART 2010* Art History I (Fall Only) 3 English I: Composition GenEd: CW ENGL 1010*+ 3 Semester Credits 15 **2ND SEMESTER** ART 1120* Beginning Painting 3 ART 2210 ART 2410 GenEd: AA/CA ART 2020* GenEd: QR MATH 1010+ **OR HIGHER** Semester Credits 15 Second Year **1ST SEMESTER** ART 1130 ART 2310 GenEd: STEM GenEd: WY Choose from approved U.S./Wyoming Constitution courses. Semester Credits 16 **2ND SEMESTER** GenEd: LAB GenEd: CV CO/M 2010* Public Speaking..... 3 Semester Credits 16 62 **Total Credits**

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Program Electives – Consult with your faculty advisor for recommendations.

1.108.000 2.00001.000	Conount mitt	. jour racarcy ac
ART 1060	3 credits	Drawing II
ART 2220	3 credits	Painting II
ART 2050	3 credits	Life Drawing I
ART 2075	3 credits	Illustration
ART 2080	3 credits	Drawing III
ART 2320	3 credits	Sculpture II
ART 2230	3 credits	Painting III
ART 2350	3 credits	Metals I
ART 2430	3 credits	Ceramics III

Automotive Body Repair

Associate of Applied Science

First Voor

The Automotive Body Repair program is designed to prepare students for employment in the automotive repair business, as well as to meet personal objectives in auto body repair. Students may enroll in the Automotive Body Repair program to receive a credit diploma or an associate of applied science.

The nine-month program is designed for full-time students and courses are offered in a sequence of blocks; each block is three weeks in length. The automotive body repair courses are designed to prepare students for the ASE certification exam.

First Year		
FALL SEMESTE	ER COURSE	TITLE CREDITS
	AUBR 1500	Auto Body Hand/Hydraulic Tools
	AUBR 1540	Auto Body Welding
	AUBR 1550	Auto Body Repair I
	AUBR 1910	Auto Paint I
	AUBR 1920*	Auto Paint II
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
	OTED	Semester Credits 19
SPRING SEME	AUBR 1560	Auto Dodu Domoin II
		Auto Body Repair II
	AUBR 1710	Frame and Chassis I
	AUBR 1720*	Frame and Chassis II
	AUBR 1810	Collision Damage Repair I
	AUBR 1930*	Auto Paint III
GenEd: QR	MATH 1510*+	Technical Mathematics I
	OR	Duchland Calific a
GenEd: QR	MATH 1010+ OR HIGHER	Problem Solving
	OK HIGHEK	Semester Credits 19
		Semester Credits 17
Second Yea	ar	
FALL SEMEST	ER	
	AUBR 1570	Auto Body Repair III
	AUTO 1500	Basic Auto Mechanics
GenEd: CW	ENGL 1010*+	English I: Composition
GenEd: CV	CO/M 2010*^	Public Speaking
	OR	
GenEd: CV	CO/M 1015*^	Foundations of Communication
	OR	
	CO/M 1030*^	Interpersonal Communication3
		Semester Credits 12
SPRING SEME		
	AUBR 1580*	Auto Body Repair IV
	AUBR 1820*	Collision Damage Repair II
	OR	
	AUBR 1945	Introduction to Automotive Custom Paint
	ENTK 1080*	Principles of Technology4
	OR	Inter du tion to Our amining
	MGT 1000*	Introduction to Supervision
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
		Semester Credits 12-13

Total Credits 62-63

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Automotive Body Repair

Certificate of Completion

The Automotive Body Repair program is designed to prepare students for employment in the automotive repair business, as well as meet the needs of those who want to upgrade their skills or meet personal objectives in auto body repair. The program leads to a certificate or an associate of applied science degree.

The certificate program is designed for full-time students, and courses are offered in a sequence of blocks; each block is three weeks in length. The automotive body repair courses are designed to prepare students for the ASE certification exam.

First Year

FALL SEMESTER COURSE	TITLE CREDITS
AUBR 1500	Auto Body Hand/Hydraulic Tools
AUBR 1540	Auto Body Welding
AUBR 1550	Auto Body Repair I
AUBR 1910	Auto Paint I
AUBR 1920*	Auto Paint II
	Semester Credits 16
SPRING SEMESTER	
AUBR 1560	Auto Body Repair II
AUBR 1710	Frame and Chassis I
AUBR 1720*	Frame and Chassis II
AUBR 1810	Collision Damage I
AUBR 1930*	Auto Paint III
	Semester Credits 16
	Total Credits 32

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Automotive Technology

Associate of Applied Science

To earn an Associate of Applied Science degree in Automotive Technology, students need to complete the following program of study. The Automotive Technology program is designed to prepare students for employment in the automotive industry. The program also offers courses for those who want to upgrade their skills or meet personal objectives of learning about automotive technology. The automotive technology courses are designed to prepare students for the ASE certification exam.

First Year

FALL SEMEST	ER COURSE	TITLE CREDITS
	AUTO 1510	Engine System Fundamentals
	AUTO 1600*	Fuel Systems I
	AUTO 1765	Auto Electrical
	AUTO 2560	Automotive Ignition Systems
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
		Semester Credits 19
SPRING SEME	ESTER	
	AUTO 1690	Manual Power Train Fundamentals
	AUTO 1730	Automatic Transmissions 4
	AUTO 1740*	Brake Systems
	AUTO 1760	Heating and Air Conditioning
	AUTO 2550	Auto Alignment and Suspension
		Semester Credits 17
Second Ye	ar	
FALL SEMEST	ER	
GenEd: CV		Choose from approved Verbal Communication courses.
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
ConEd CW	ENCL 1010*	English L Composition 2

GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
GenEd: CW	ENGL 1010*+	English I: Composition
GenEd: QR	MATH 1010+	Problem Solving
	OR	
GenEd: QR	MATH 1510*+	Technical Mathematics I
		Semester Credits 12
SPRING SEME	STER	
		Choose from faculty-approved elective courses
		Choose from faculty-approved elective courses
		Choose from faculty-approved elective courses
	ENTK 1080*	Principles of Technology
		Semester Credits 13-15

Total Credits 61-63

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Automotive Technology

Certificate of Completion

The Automotive Technology program is designed to prepare students for employment in the automotive industry. The program also offers courses for those who want to upgrade their skills or meet personal objectives of learning about automotive technology.

The nine-month program is designed for full-time students, and courses are offered in a sequence of blocks. The block varies from three-to-four weeks in length depending on the number of credits for each course. The automotive technology courses are designed to prepare students for the ASE certification exam.

First Year	
FALL SEMESTER COURSE AUTO 1510 AUTO 1600* AUTO 1765	TITLECREDITSEngine System Fundamentals4Fuel Systems I4Automotive Electrical5
AUTO 2560 SPRING SEMESTER	Automotive Ignitions Systems
AUTO 1690 AUTO 1730 AUTO 1740* AUTO 1760 AUTO 2550	Manual Power Train Fundamentals3Automatic Transmissions4Brake Systems3Heating and Air Conditioning3Automotive Alignment and Suspension4
	Semester Credits 17 Total Credits 33

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Business and Finance

Associate of Science

Elect Veen

The Business and Finance degree is designed for students who wish to prepare for a wide range of career options in business, finance, or related fields. This degree offers all of the necessary course work to transfer to a four-year university, allowing students to pursue a baccalaureate degree in Business Administration, Economics, Finance, Management, or Marketing.

Program Articulation: This program is articulated with the University of Wyoming and Park University. Any deviations from the prescribed course list will not articulate.

IST SEMESTERCOURSE ACCT 2010*+TITLECREDGenEd: CSCOLS 1000Introduction to College Success: First-Year SeminarEconomics, Law and GovernmentGenEd: WYECON 1200Economics, Law and GovernmentEconomics, Law and GovernmentGenEd: QRMATH 1400+^College AlgebraCollege AlgebraOR HIGHEROR HIGHERSemester Credits2ND SEMESTERPrinciples of Accounting IIFrinciples of MacroeconomicsGenEd: AA GenEd: CVCO/M 2010*Public SpeakingGenEd: CVCO/M 2010*Public Speaking
GenEd: CS COLS 1000 Introduction to College Success: First-Year Seminar . GenEd: WY ECON 1200 Economics, Law and Government . GenEd: CW ENGL 1010*+ English I: Composition . GenEd: QR MATH 1400+^ College Algebra . OR HIGHER OR HIGHER 2ND SEMESTER ACCT 2020* Principles of Accounting II . ECON 1010* Principles of Macroeconomics . Business Calculus I . GenEd: AA Choose from approved Aesthetic Analysis courses .
GenEd: WY ECON 1200 Economics, Law and Government GenEd: CW ENGL 1010*+ English I: Composition GenEd: QR MATH 1400+^ College Algebra OR HIGHER College Algebra Semester Credits 2ND SEMESTER ACCT 2020* Principles of Accounting II ECON 1010* Principles of Macroeconomics Business Calculus I GenEd: AA Choose from approved Aesthetic Analysis courses.
GenEd: CW ENGL 1010*+ English I: Composition GenEd: QR MATH 1400+^ College Algebra OR HIGHER College Algebra Semester Credits 2ND SEMESTER ACCT 2020* Principles of Accounting II ECON 1010* Principles of Macroeconomics Business Calculus I GenEd: AA Choose from approved Aesthetic Analysis courses.
GenEd: QR MATH 1400+^ OR HIGHER College Algebra 2ND SEMESTER Semester Credits ACCT 2020* Principles of Accounting II ECON 1010* Principles of Macroeconomics MATH 2350*^ Business Calculus I GenEd: AA Choose from approved Aesthetic Analysis courses.
OR HIGHER Semester Credits 2ND SEMESTER ACCT 2020* Principles of Accounting II ACCT 2020* Principles of Macroeconomics Principles of Macroeconomics MATH 2350*^ Business Calculus I Business calculus I
2ND SEMESTER ACCT 2020* Principles of Accounting II ECON 1010* Principles of Macroeconomics MATH 2350*^ Business Calculus I GenEd: AA Choose from approved Aesthetic Analysis courses.
ACCT 2020* Principles of Accounting II ECON 1010* Principles of Macroeconomics MATH 2350*^ Business Calculus I GenEd: AA Choose from approved Aesthetic Analysis courses
ECON 1010* Principles of Macroeconomics MATH 2350*^ Business Calculus I GenEd: AA Choose from approved Aesthetic Analysis courses
MATH 2350*^ Business Calculus I GenEd: AA Choose from approved Aesthetic Analysis courses.
GenEd: AA Choose from approved Aesthetic Analysis courses
GenEd: CV CO/M 2010* Choose from approved Aesthetic Analysis courses
Senter Cradite
Second Year
1ST SEMESTER
ECON 1020* Principles of Microeconomics
MATH 2355* ^ Mathematical Applications for Business.
MKT 2100* Principles of Marketing
GenEd: CA Choose from approved Cultural Awareness courses.
GenEd: LAB Choose from approved Lab Science courses
2ND SEMESTER
BADM 2010 Business Law I
FIN 2100* Corporate Finance (Spring Only)
IMGT 2400* Introduction to Information Management
MGT 2100 Principles of Management
GenEd: STEM STAT 2010* Statistical Concepts – Business
OR
GenEd: STEMSTAT 2050*Fundamentals of Statistics
GenEd: STEM STAT 2070* Introductory Statistics for the Social Sciences
Total Credits

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Students wishing to pursue a graduate degree in Economics or Finance should take MATH 1450 in lieu of MATH 1400, MATH 2200 in lieu of MATH 2350, and MATH 2205 in lieu of MATH 2355. The total program credit hours for this option is 68 credits.

Business Management

Associate of Applied Science

The Business Management program is designed to prepare students for supervisory and managerial careers in service-oriented businesses, government, and technical industries. The two-year occupational program combines academic study with work-related experience and leads to an Associate of Applied Science degree in Business Management. Courses taken for a satisfactory/unsatisfactory (S/U) grade shall not be applied toward degree requirements.

First Year IST SEMESTER COURSE CREDITS TITLE ACCT 2010* BADM 1000* COSC 1200* GenEd: CS COLS 1000 GenEd: QR MATH 1010+ OR GenEd: QR MATH 1400+ **OR HIGHER** Semester Credits 15 **2ND SEMESTER** ACCT 2020* ECON 1000 FIN 1001* Personal Financial Planning.....1 Risk and Credit Management 1 FIN 1002* FIN 1003* MGT 1000* MKT 1000* GenEd: CW ENGL 1010*+ 3 18 Second Year **1ST SEMESTER** BADM 1020* MGT 1200* Human Resource Management (Fall Only) 3 MKT 1300* PSYC 1100* GenEd: CV CO/M 2010*^ OR GenEd: CV CO/M 1015*^ OR CO/M 1030*^ GenEd: WY ECON 1200* Semester Credits 18 **2ND SEMESTER** BADM 2010 **BUSN 2000** International Business 3 IMGT 2400 MGT 2100 Choose from approved elective courses.... Semester Credits 3 15

Total Credits 66

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Business Management – Entrepreneurship

Credit Diploma

The Entrepreneurship program is designed to focus on small business creation and management for the student or existing business owner.

First Year FALL SEMESTER COURSE TITLE CREDITS ACCT 2010* ACCT 2460* ECON 1000 Introduction to Entrepreneurship 3 ENTR 1500* MKT 1000* SPRING SEMESTER BADM 2010* Creating a Business Plan (Spring Only)...... 3 ENTR 1520* ENTR 2540* Small Business Financial Management (Spring Only).....2 ENTR 2550* Principles of Management MGT 2100 Semester Credits Total Credits * This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Business Management – Entrepreneurship Business Plan

Credit Diploma

The Entrepreneurship Business Plan program is designed to be added to other career or occupational degrees or as a stand alone certificate. Students who are wishing to start a new business venture will gain insight useful in their venture. Existing business owners may use the certificate for skills helpful in developing new growth strategies.

First Year

IST SEMESTER	COURSE ENTR 1500* MKT 1000*	TITLE Introduction to Entrepreneurship Personal Selling	CRED	3
			Semester Credits	6
2ND SEMESTER				
	ENTR 1520* ENTR 2550*	Creating a Business Plan		3 3
				6
			Total Credits	12

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

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Computer Information Systems

Associate of Applied Science

The Computer Information Systems program is specifically designed to prepare students for entry-level positions in fields related to Information Technology. The curriculum offers flexibility in meeting students' career needs. This course of study leads to an Associate of Applied Science degree in Computer Information Systems. Various credit diplomas are also offered.

First Year

1ST SEMESTER	COURSE COSC 1200*	TITLECREDITSComputer Information Systems3
GenEd: CW GenEd: QR	COLS 1000 ENGL 1010*+ MATH 1400+ OR HIGHER	Choose from faculty approved elective courses.^ 3 Introduction to College Success: First-Year Seminar 3 English I: Composition 3 College Algebra 3
2ND SEMESTER		Semester Credits 15
	COSC 1010*	Introduction to Computer Science
	CO/M 2010*^ OR	Choose from approved U.S./Wyoming Constitution courses
GenEd: CV	CO/M 1015*^ OR	Foundations of Communication
	CO/M 1030*^	Interpersonal Communication
		Semester Credits 16
Second Year		
1ST SEMESTER		Choose from faculty-approved elective courses.^ 14-15
		Semester Credits 14-15
2ND SEMESTER	BADM 1020*	Business Communication 3 Choose from faculty-approved elective courses.^ 12 Semester Credits 15
		Total Credits 60-61

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Program Electives – Students must take courses from at least two of the following disciplines for a minimum total of 35 credit hours. All courses must be approved by a program faculty advisor.

Business (maximum of 9 credit hours) Cisco Networking Computer Security Computer Applications Microsoft Linux Computer Programming Internet Technology Computer Technician

CIS – Cisco Certified Networking Associate (CCNA)

Credit Diploma

The Cisco Certified Networking Associate credit diploma is designed to provide students with the necessary skills in Cisco Networking Technology and to prepare the student to take the Cisco certification for CCNA.

First Year 1ST SEMESTER COURSE TITLE CREDITS CSCO 2000 CMAP 2005* COSC 1200* Cisco: Advanced Internetworking I. CSCO 2010* Semester Credits 2ND SEMESTER CSCO 2020* CSCO 2025* CSEC 1500* CSEC 1510* **Total Credits**

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

CIS – Computer Support Specialist

Credit Diploma

The Computer Support Specialist credit diploma prepares students for entry-level positions at computer help desk and call centers, as well as careers as computer service technicians. Students prepare for industry certifications for Microsoft Office Specialist and CompTIA A+ certifications.

First Year

1ST SEMESTER	COURSE	TITLE CREDITS
	COSC 1200*	Computer Information Systems
	CMAP 1610*	Windows I
	CMAP 1650	Introduction to Networking 1
	CMAP 1715	Word Processing
	CMAP 1765*	Spreadsheet Applications
	CMAP 2630	Presentation Graphics: Microsoft PowerPoint 1
	INET 1550	Introduction to the Internet 1
		Semester Credits 13
2ND SEMESTER		
	CMAP 1615	Operating Systems
	CMAP 1815	Database Applications
	CMAP 1886	Microsoft Outlook 1
	CMAP 1920	Computer Hardware Maintenance
		Choose from faculty advisor-approved elective from
		CMAP, COSC, MSFT, CSCO or CSEC courses
		Semester Credits 14
		Total Credits 27

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

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CIS – Computer Technician

Credit Diploma

The Computer Technician credit diploma prepares students for entry-level positions as computer service technicians. Students are prepared to take the CompTIAA+ Certification Exams.

First Year

1ST SEMESTER	COURSE	TITLE	CREDITS
	CMAP 1610*	Windows I	1
	CMAP 1615	Operating Systems	3
	CMAP 1650	Introduction to Networking	
	CMAP 1920	Computer Hardware Maintenance	
	COSC 1200*	Computer Information Systems.	
	INET 1550	Introduction to the Internet	
		Choose from approved CMAP or CSCO elective courses	3
		Semester Cred	lits 16
		Total Cred	lits 16

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

CIS – Microsoft Systems and Networks

Credit Diploma

Students apply problem solving skills in the context of information systems including analyzing the problem, and design, implement, thoroughly test, and evaluate the solution for effectiveness in a Microsoft environment to effectively design, manage and administer Microsoft Servers.

First Year

1ST SEMESTER	COURSE CSCO 2000	TITLE Cisco: Internetworking I	••••	DITS
	LINX 2500	Linux Administration I		
	MSFT 2700	Managing and Maintaining Microsoft Serve	rs	4
			Semester Credits	11
2ND SEMESTER				
	MSFT 2710*	Microsoft Server Administration		4
		Choose from approved MSFT elective cours	es	4
			Semester Credits	8
			Total Credits	19

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

CIS – Office Application Specialist

Credit Diploma

The Office Application Specialist program prepares students for entry-level positions utilizing the latest office software. Students are prepared for industry Microsoft Office Specialist certification.

First Year		
1ST SEMESTER	COURSE	TITLE CREDITS
	COSC 1200*	Computer Information Systems
	CMAP 1500	Computer Keyboarding
	CMAP 1610*	Windows I
	CMAP 1715	Word Processing
	CMAP 1765*	Spreadsheet Applications
	ENGL 1010*	English I: Composition
	INET 1550	Introduction to the Internet 1
		Semester Credits 15
2ND SEMESTER		
	ACCT 2010*	Principles of Accounting I
	BADM 1020*	Business Communication
	CMAP 1650	Introduction to Networking 1
	CMAP 1815	Database Applications
	CMAP 1886	Microsoft Outlook 1
	CMAP 2630	Presentation Graphics: Microsoft PowerPoint
		Semester Credits 12
		Total Credits 27

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

CIS – Web Design

Credit Diploma

The Web Design program is designed to provide students with the necessary skills for employment as an entrylevel web designer.

First Year

1ST SEMESTER	COURSE COSC 1200*	TITLE Computer Information Systems		3
	INET 1580* INET 1640*	Web Page Authoring Web Development Tools		. 3
			Semester Credits	9
2ND SEMESTER				0
	INET 2020* OR	Designing E-Commerce Web Sites		. 3
	INET 2620*	Designing Effective Web Sites Choose from faculty advisor-approved INET		
			Semester Credits	9
		-		
			Total Credits	18

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Computer Science

Associate of Science

Since the 1950's the computer has developed from a novelty with a few technical numerical applications to a ubiquitous tool essential to science and technology, business and finance, government, communications, and entertainment. "Computer" can be defined as personal devices such as phones, tablets, glasses, and other wearable devices. As a result, computer science has grown from a specialization in mathematics, business, or electrical engineering, to an independent, broadly based area of study covering all aspects of the use and understanding of computers and the computation process.

The Associate of Science in Computer Science provides a foundation for students to complete their baccalaureate degree at a four-year institution in the many specialized concentrations in the broad category of computer science.

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year

1ST SEMESTER	COURSE COSC 1010*	TITLE CRI Introduction to Computer Science.	EDITS
GenEd: CS GenEd: CW GenEd: QR	COLS 1000 ENGL 1010*+ MATH 2200*+	Introduction to College Success: First-Year Seminar English I: Composition Calculus I	3 3
2ND SEMESTER		Semester Credits	14
	COSC 1030* MATH 2205*+	Computer Science I	4
GenEd: LAB GenEd: WY		Choose from approved Lab Science courses	
Second Year			
1ST SEMESTER			
	COSC 2030*	Computer Science II	4
GenEd: AA GenEd: STEM	STAT 2010* OR	Choose from approved Aesthetic Analysis courses Statistical Concepts – Business	
GenEd: STEM	STAT 2050* OR	Fundamentals of Statistics	4
GenEd: STEM	STAT 2070*	Introductory Statistics for the Social Sciences	<u>4</u> 15
2ND SEMESTER			
	COSC/MATH 2300*	Discrete Structures Choose from upper-level Lab Science courses.^ Choose from COSC, CMAP, CSEC or CSCO	4
GenEd: CA GenEd: CV	ECON 1010* CO/M 2010*	faculty-approved elective courses Principles of Macroeconomics Public Speaking Semester Credits	3
		Semester Credits	16
		Total Credits	60

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

MATH elective taken should be greater than MATH 2205, except MATH 2300.

See faculty advisor for assistance in choosing an upper-level Lab Science course.

Computer Science – Business Concentration

Associate of Science

This program is designed for computer science students who wish to include core business courses in their education. The Computer Science – Business Concentration provides a foundation for students to continue their education to complete a baccalaureate degree at a four-year college or university in the many specialized concentrations in the broad category of Computer Science – Business.

First Year

1ST SEMESTER		TITLE CREDITS
	ACCT 2010*	Principles of Accounting I
CanEd CC	COSC 1010* COLS 1000	Introduction to Computer Science
GenEd: CS GenEd: AA	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	Choose from approved Aesthetic Analysis courses
denlu. Cw	LINGE IOIO +	English I: Composition
2ND SEMESTER	2	Schester creatis
	ACCT 2020*	Principles of Accounting II
	COSC 1030*	Computer Science I
GenEd: QR	MATH 2200*+	Calculus I
GenEd: STEM	STAT 2010*	Statistical Concepts – Business 4
	OR	
GenEd: STEM	STAT 2050*	Fundamentals of Statistics 4
•	OR	
GenEd: STEM	STAT 2070*	Introductory Statistics for the Social Sciences
		Semester Credits 15
Second Year	r	
1ST SEMESTER		
	COSC 2030* BADM 2010*	Computer Science II
	MATH 2205*+	Calculus II
GenEd: LAB	MATT 2207 +	Choose from first semester upper-level Lab Science courses.^ 4
dented. END		Semester Credits 15
2ND SEMESTER	2	
	COSC/MATH 2300*	Discreet Structures
		Choose from second semester-upper level Lab Science courses^4
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses.
		ECON 1200 recommended
GenEd: CA	ECON 1010*	Principles of Macroeconomics
GenEd: CV	CO/M 2010*	Public Speaking
		Semester Credits 16
		Total Credits 62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

See faculty advisor for assistance in choosing an upper-level Lab Science course.

Construction Management

Associate of Applied Science

The Construction Management program provides students the technical, managerial, and business knowledge required to perform construction operations and processes that are efficient, cost effective, and ensure the safety and accurate progress on a given project. Students explore building codes, costs, construction methods, as well as managerial techniques employed with allied fields associated with construction. Students are prepared to integrate and manage technical, material, financial, and human resources functions, and establish timetables that support construction operations and lead project teams toward common objectives.

Program Articulation: This program is articulated with South Dakota State University. Any deviations from the prescribed course list will not articulate.

First Year

IST SEMESTER GenEd: CS GenEd: CW GenEd: QR	COURSE CMGT 1505* ENTK 1005* ENTK 1515* COLS 1000 ENGL 1010*+ MATH 1400+ OR HIGHER	TITLECREDITSIntroduction to Construction Management1Engineering Problem Solving with Spreadsheets1Technical Drafting3Introduction to College Success: First-Year Seminar3English I: Composition3College Algebra3
		Semester Credits 14
2ND SEMESTER GenEd: WY GenEd: CV	CMGT 1520* MATH 1405* ENTK 1740* CO/M 2010*^	Introduction to Blueprint Reading and Building Codes3Pre-Calculus Trigonometry3Architectural Building Information Modeling Design I3Choose from approved U.S./Wyoming Constitution courses3Public Speaking3
GenEd: CV	OR CO/M 1015*^	Foundations of Communication
	OR CO/M 1030*^	Interpersonal Communication
Second Year	•	
1ST SEMESTER		
	ACCT 2010* CMAP 1700 ECON 1010* ENTK 2610* ENTK 2070*	Principles of Accounting I. 3 Word Processing I 1 Principles of Macroeconomics 3 Construction Materials and Methods 3 Engineering Survey 3 Choose from PHYS 1110, CHEM 1000 or GEOG 1100 3 faculty-approved elective course. 4 Semester Credits
2ND SEMESTER	2	
	ACCT 2020* CMGT 2560* ECON 1020* ENTK 2660*	Principles of Accounting II 3 Construction and Industry Safety. 3 Principles of Microeconomics 3 Fundamentals of Construction Cost Estimation 3 Choose from ENTK, GEOG or HVAC 3 faculty-approved elective course. 3 Semester Credits 15
		Total Credits 61

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Criminal Justice – Corrections/Pre-Law

Associate of Arts

The Associate of Arts degree majors – law enforcement and corrections/pre-law – assist students in preparing for careers in criminal justice. Specialization in a major begins in the second year of study. There is a broad range of courses allowing the second-year student wide latitude in career planning.

The goal of the criminal justice program is to graduate students who will be assertive, bold, ethical, and positive practitioners in the future, guided by balance, self-control, common sense, curiosity, sensitivity, education, and open, effective communication skills.

The foundation of these practitioners will be their integrity, desire to seek continued personal growth as a criminal justice employee and citizen, and ability to work cooperatively and loyally with cohorts, subordinates, superiors, and the public. Graduates should be prepared to offer leadership services to the community in return for the community's invested trust in them as criminal justice employees.

The corrections portion of this criminal justice major is designed to prepare the student for a bachelor's degree and for careers such as juvenile officer, parole agent, adult probation officer, state and federal corrections officer, institutional counselor, and halfway house counselor.

Criminal justice study at the bachelor's degree level is a popular base for prelaw students and provides a thorough understanding of the system they may be practicing in during their careers. Students in prelaw should select a broad base of courses at the undergraduate level. The practice of law normally requires a bachelor's degree, three years in graduate law school, and successful completion of the bar exam of the jurisdiction in which the law school graduate wishes to practice.

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year 1ST SEMESTER COURSE TITLE CREDITS CRMI 2120* GenEd: CS COLS 1000 GenEd: CW ENGL 1010*+ GenEd: WY POLS 1000* GenEd: QR MATH 1010+ OR GenEd: QR MATH 1400+ **OR HIGHER** Semester Credits 15 **2ND SEMESTER** CRMI/SOC 2400* SOC 1000 GenEd: AA Choose from BIOL 1003, ANTH 1100, or GEOG 1010 GenEd: LAB approved Lab Science courses. 4 Introduction to Cultural Anthropology GenEd: CA ANTH 1200 3 Semester Credits 16 Second Year **1ST SEMESTER** CRMI 2210 CRMJ 2350* PSYC 1000* GenEd: CV CO/M 2010* STAT 2070* Semester Credits **2ND SEMESTER** Criminal Law II (Fall Online or Spring Live) 3 CRMJ 2220* CRMI 2380* CRMI 2420* Research Methods in Psychology..... 4 PSYC 2000* Choose from approved STEM courses. 3 GenEd: STEM Semester Credits 16 **Total Credits** 63

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Other Information

This outline provides a sample guideline for coursework in the major. Actual enrollment varies per student.

Criminal Justice - Law Enforcement

Associate of Arts

The Associate of Arts degree majors – law enforcement and corrections/pre-law – assist students in preparing for careers in criminal justice. Specialization in a major begins in the second year of study. There is a broad range of courses allowing the second-year student wide latitude in career planning.

The goal of the criminal justice program is to graduate students who will be assertive, bold, ethical, and positive practitioners in the future, guided by balance, self-control, common sense, curiosity, sensitivity, education, and open, effective communication skills.

The foundation of these practitioners will be their integrity, desire to seek continued personal growth as a criminal justice employee and citizen, and ability to work cooperatively and loyally with cohorts, subordinates, superiors, and the public. Graduates should be prepared to offer leadership services to the community in return for the community's invested trust in them as criminal justice employees.

This program of study may lead to employment as a municipal police officer, deputy sheriff, federal enforcement officer, or private or public security officer.

Good character and physical condition as well as minimum-maximum age limits are required by most employing law enforcement agencies. Employment trends also suggest that agencies are giving preference to those with higher levels of college education. Attendance at a training academy is required to become a law enforcement officer.

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year

1ST SEMESTER	COURSE	TITLE CREDITS
	CRMJ 2120*	Introduction to Criminal Justice (Fall or Spring)
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	English I: Composition
GenEd: WY	POLS 1000*	American and Wyoming Government
GenEd: QR	MATH 1010+	Problem Solving
	OR	
GenEd: QR	MATH 1400+	College Algebra 3
	OR HIGHER	
		Semester Credits 15
2ND SEMESTER		
	CRMJ/SOC 2400*	Criminology (Fall or Spring) 3
	SOC 1000	Sociological Principles 3
GenEd: AA		Choose from approved Aesthetic Analysis courses
GenEd: LAB		Choose from BIOL 1003, ANTH 1100, or GEOG 1010
		approved Lab Science courses
GenEd: CA	ANTH 1200	Introduction to Cultural Anthropology
		Semester Credits 16
Consend Voor		
Second Year		
1ST SEMESTER		
	CRMJ 2210	Criminal Law I (Fall Live or Spring Online)
	CRMJ 1510	Police Science I (Fall Only)
	PSYC 1000*	General Psychology
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: STEM	STAT 2050*	Fundamentals of Statistics 4
	OR	
GenEd: STEM	STAT 2070*	Introductory Statistics for the Social Sciences
		Semester Credits 16
2ND SEMESTER		
	CRMJ 1310*	Criminal Investigation I (Spring Only)
	CRMJ 1320*	Criminal Investigation II (Spring Only) 3
	CRMJ 2220*	Criminal Law II (Fall Online or Spring Live)
	CRMJ 2420*	Juvenile Justice (Fall Online or Spring Live)
	PSYC 2000*	Research Methods in Psychology
		Semester Credits 16
		Total Credits 63
	. 1	

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Other Information

This outline provides a sample guideline for coursework in the major. Actual enrollment varies per student.

Cybersecurity

Associate of Applied Science

Businesses and government agencies face threats from the cyber world on a daily basis, creating a need for professionals to protect financial information, personal data, and trade secrets from online predators. The Associate of Applied Science in Cybersecurity degree is designed to prepare students for a career as a cybersecurity professional by providing them the knowledge and tools needed to safeguard the internet. This degree is the next step after completing the Cybersecurity Professional credit diploma.

First Year

1ST SEMESTER	COURSE	TITLE	CREDITS	
	HSEC 1000	Homeland Security: A Global Impact		
	CSCO 2000	Cisco: Internetworking I		
	CSCO 2010*	Cisco: Advanced Internetworking I		
	LINX 2500	Linux Administration I		
GenEd: CS	COLS 1000	Introduction to College Success: First-Year S	Seminar	
		-	Semester Credits 16	
2ND SEMESTER	2			
	CSCO 2020*	Cisco: Advanced Internetworking II		
	CSCO 2025*	Cisco: Advanced Internetworking III		
	CSEC/HSEC 1500*	Network Security Fundamentals		
	CSEC/HSEC 1510*	Network Defense Principles		
	MSFT 2600	Implementing Microsoft Windows Desktop		
			Semester Credits 16	

Second Year

		Total Credits 66
		Semester Credits 18
	OR HIGHER	
GenEd: QR	MATH 1400+	College Algebra 3
GenEd: WY	ECON 1200*	Economics, Law, and Government
	CSEC/HSEC 2013	Cybersecurity Capstone 3
	HSEC 2001*	Homeland Security Legal, Policy, and Privacy Issues
		Facilities and Networks
	HSEC 1015*	Homeland Security and Critical Infrastructure:
	BADM 1000*	Introduction to Business
2ND SEMESTER		Semester creaks in
	CO/W 1050 /	Interpersonal Communication
	OR CO/M 1030*^	Internersonal Communication
GenEd: CV	CO/M 1015*^	Foundations of Communication
	OR	
GenEd: CV	CO/M 2010*^	Public Speaking
GenEd: CW	ENGL 1010*+	English I: Composition
	MSFT 2700	Managing and Maintaining Microsoft Servers
	CSEC/HSEC 1530*	Computer Forensics
	CSEC/HSEC 1520*	Network Attack Principles

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Cybersecurity Fundamentals

Credit Diploma

Businesses and government agencies face threats from the cyber world on a daily basis, creating a need for professionals to protect financial information, personal data, and trade secrets from online predators. The Cybersecurity Fundamentals credit diploma is designed for students new to the study of computers and the study of cybersecurity. This program will give students a basic understanding of computer concepts and cybersecurity theories.

First Year

IST SEMESTER	COURSE CMAP 1615 CMAP 1920	TITLE Operating Systems		4
	CSCO 2000	Cisco: Internetworking I		3
	CSCO 2010*	Cisco: Advanced Internetworking I		3
			Semester Credits	13
2ND SEMESTER				
	CSEC/HSEC 1500*	Network Security Fundamentals		
	CSEC/HSEC 1510*	Network Defense Principles		
	LINX 2500	Linux Administration I		4
	MSFT 2700	Managing And Maintaining Microsoft Server	Ś	4
		_	Semester Credits	14
		-	Total Credits	27

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Cybersecurity Professional

Credit Diploma

Businesses and government agencies face threats from the cyber world on a daily basis, creating a need for professionals to protect financial information, personal data, and trade secrets from online predators. The Cybersecurity Professional credit diploma is designed for the IT professional looking to continue their education in cybersecurity or as the next step after completing the Cybersecurity Fundamentals Credit Diploma.

First Year

IST SEMESTER	COURSE CSEC/HSEC 1520* CSEC/HSEC 1530* HSEC 1000 LINX 2510*	TITLECREDITSNetwork Attack Principles.3Computer Forensics3Homeland Security: A Global Impact.3Linux Administration II.4Semester Credits13
2ND SEMESTER		
	CSCO 2020* CSCO 2025* CSEC/HSEC 2013 HSEC 1015*	Cisco: Advanced Internetworking II3Cisco: Advanced Internetworking III3Cybersecurity Capstone3Homeland Security and Critical Infrastructure:Facilities and Networks.3
	HSEC 2001*	Homeland Security Legal, Policy, and Privacy Issues
		Semester Credits 15
		Total Credits 28

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Dental Hygiene

Associate of Applied Science

The dental hygienist is a preventive oral care professional licensed to provide educational, clinical, and therapeutic dental hygiene services to the public. This unique 16-month program combines academic study with supervised clinical experience. Graduates of the program receive an Associate of Applied Science degree and are eligible to take the appropriate national, regional and/or state examinations. Applicants are encouraged to contact the state boards of dentistry in the states in which they wish to practice for individual licensing requirements and circumstances for licensure denial.

The dental hygiene program is a vigorous study of advanced science classes offered in an accelerated format. General education and basic science courses are essential to prepare students to succeed. Therefore, applicants are required to complete predental hygiene course requirements. Each prerequisite course must be completed with a grade of "C" or higher. Completion of the prerequisite course work does not guarantee admission into the dental hygiene program. Additionally, LCCC's academic skills assessment and placement policy apply.

Program Accreditation: This program is accredited by the Commission on Dental Accreditation. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at 312,440,4653 or at 211 East Chicago Avenue, Chicago, Illinois 60611.

Program Articulation: This program is articulated with Wichita State University. Any deviations from the prescribed course list will not articulate.

Students interested in starting the program in the Spring of 2018 should contact the Program Director or visit http://www.lccc.wy.edu/programs/dentalHygiene/index.aspx for changes to the program requirements and/or prerequisites.

Prerequisite

1ST SEMESTER	COURSE	TITLE CREDITS
GenEd: CS	COLS 1000^	Introduction to College Success: First-Year Seminar
GenEd: CA	SOC 1000	Sociological Principles
	OR	
GenEd: CA	ANTH 1200	Introduction to Cultural Anthropology
GenEd: CW	ENGL 1010*+	English I: Composition
GenEd: QR	MATH 1000*+^	Integrated Problem Solving Quantway II
	OR	
GenEd: QR	MATH 1010+^	Problem Solving
	OR	Ũ
GenEd: QR	MATH 1400+^	College Algebra
	OR HIGHER	
GenEd: STEM	ZOO 2015*^	Human Anatomy
Optional	POLS 1000*^	American and Wyoming Government
•	OR EQUIVALENT	

Prerequisite **2ND SEMESTER**

	PSYC 1000*	General Psychology
	MICR 2240*^	Medical Microbiology 4
	ZOO 2025*^	Human Physiology
GenEd: CV	CO/M 2010*+^	Public Speaking
	OR	
GenEd: CV	CO/M 1015*+^	Foundations of Communication
	OR	
	CO/M 1030*^	Interpersonal Communication
Optional	POLS 1000*^	American and Wyoming Government
	OR EQUIVALENT	

Prerequisite Credits 14-17

Prerequisite Credits 16-19

Program **1ST SEMESTER SF**

2ND SEMESTER S

SPRING I		
DHYG 1110	Dental Biology	;
DHYG 1150	Preventive Dentistry	
DHYG 1410	Dental Hygiene Principles	j
DHYG 2450	Dental Radiology.	;
	Semester Credits 14	
SPRING II		
DHYG 1200*	Pharmacology)
DHYG 1245*	Dental Nutrition and Biochemistry	;
DHYG 1420*	Dental Hygiene Seminar I	
DHYG 1425*	Dental Hygiene Clinic I	
DHYG 2400*	Head, Neck, and Oral Anatomy	
DHYG 2460*	Dental Materials	;
	Semester Credits 15	5

3RD SEMESTER FALL

	DHYG 2200*	General and Oral Pathology
	DHYG 2250*	Pain Management
	DHYG 2330*	Periodontology
	DHYG 2430*	Dental Hygiene Seminar II
	DHYG 2435*	Dental Hygiene Clinic II
		Semester Credits 14.5
4TH SEMESTE	ER SPRING I	
	DHYG 2260	Dental Public Health
	DHYG 2410*	Ethics, Law and Practice Management
	DHYG 2440*	Dental Hygiene Seminar III 1
	DHYG 2445*	Dental Hygiene Clinic III
Optional	POLS 1000*^	American and Wyoming Government
	OR EQUIVALENT	
		Semester Credits 12-15
		Total Credits 88.5

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

For students planning to enter the program in January 2017 (catalog year 2016-2017), MATH 1000, Problem Solving will be accepted although MATH 1400, College Algebra is strongly encouraged. For the class of January 2018 (catalog year 2017-2018), MATH 1400 will be required. For students planning on completing a Bachelor's degree in the future, MATH 1400 is strongly encouraged.

Students should take ZOO 2015 and ZOO 2025. Completion of ZOO 2010 and ZOO 2020 may be accepted however additional prerequisites apply for this option.

MICR 2240, ZOO 2015, ZOO 2025, ZOO 2010 and ZOO 2020 must be 5 years current.

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Students who have not completed POLS 1000 or its equivalent within the state of Wyoming, POLS 1100 must be completed in addition to an acceptable American government course. Although POLS 1000 is an optional prerequisite, if this is not completed prior to starting the program, it will be an additional course that is required during the program in the final semester. It is highly recommended that the student complete this course prior to beginning the dental hygiene program.

Some students may qualify for an exemption for COLS 1000 due to prior learning. Information is available on page 37 of the catalog. See your Academic Advisor for assistance.

Important Information

Drug Screening and Criminal Background Checks

Acceptance into the program is conditional based upon satisfactory completion of a criminal background check and drug screen. Instructions for completion will be provided once a student is accepted into the program. Students will also be subject to random and for-cause drug screening throughout the program. Testing positive on the drug screening or evidence of tampering with a specimen will disqualify a student from participation in a clinical assignment and will result in dismissal from the program.

Certain criminal activity, as evidenced by a criminal background check, may also disqualify a student from clinical participation. See school policy at lccc.wy.edu/academics/divisions/HSW. Students are advised that the inability to gain clinical education experiences can result in the inability to meet program objectives and outcomes. These circumstances may prevent acceptance into and/or continuance in the program.

Application to the Dental Hygiene Program

A student interested in applying to the dental hygiene program may contact the Dental Hygiene Program Director or the Admissions Office for specific procedures, which must be completed prior to application in August and admission in January. Because the dental hygiene program receives more applications than available student spaces, it is necessary to employ strict selection procedures so that those applicants who are deemed best qualified to succeed may be selected. Applicants must obtain an information packet that outlines the dental hygiene academic calendar, program costs, Health Care Provider CPR requirement, blood borne pathogens, immunizations, and estimated student expenses that are specific to the Dental Hygiene program. Applications may be obtained from the Dental Hygiene Director, or the website lccc.wy.edu/programs/dentalhygiene.

Dental health professionals may be exposed to contagious diseases, therefore, strict compliance with Centers for Disease Control (CDC) and OSHA standards are maintained. Although diseases may be encountered, research indicates that risks are negligible when optimal infection control is practiced. Policies on blood borne and infectious disease are available upon request from the Dental Hygiene program.

LCCC does not discriminate on the basis of race, color, national origin, sex, age, or disability in admission or access to, or treatment or employment in, its educational programs or activities.

Diagnostic Medical Sonography

Associate of Applied Science

Diagnostic Medical Sonography (DMS) is a diagnostic procedure that uses high frequency sound waves to create detailed images of the human body. Sonographers use state-of-the-art technology to scan patients and obtain images of the abdomen, heart, blood vessels, and fetus to aid in the diagnosis of a disease. Sonography is a profession that requires a high degree of independence, judgment, knowledge, maturity, and stamina.

The diagnostic medical sonographer is a skilled person qualified academically and clinically to perform ultrasound exams while working closely with a qualified physician. To create an ultrasound image, the sonographer must have an in-depth knowledge of physics, disease processes, human anatomy, and sonographic technique. Physicians depend on the sonographer's knowledge to evaluate normal and abnormal body parts.

The DMS program is accredited in general studies which include Abdomen and OB/GYN. Graduates of this program will receive an Associate of Applied Science in Diagnostic Medical Sonography. The program is an intensive, six-semester program not including prerequisite courses, designed for individuals new to patient care. The last three semesters of the program are primarily clinical experience, and students may be placed in various hospitals and/or clinics in Wyoming, Colorado, or Nebraska.

The program has limited enrollment and admits one class each summer. Prerequisite courses listed below must be completed or in progress prior to application for program admission. Perspective students interested in the program may contact the program director, clinical coordinator, or admissions office for details about the program admission process and timeline. Additional information is also available on the program website at lccc.wy.edu/programs/sonography.

Students interested in starting the program in the Summer of 2017 should contact the Program Director or visit lccc.wy.edu/programs/sonography/index.aspx for changes to the program requirements and/or prerequisites.

Program Accreditation: This program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and the Joint Review Committee on Education in Diagnostic Medical Sonography (JRCDMS).

The following prerequisite courses must be in progress or completed with a grade of "C" or better by the application deadline for the Diagnostic Medical Sonography program. Students are encouraged to contact the Diagnostic Medical Sonography program-specific questions.

Prerequisite

FALL SEMESTE		TITLE CREDITS
	PSYC 1000*	General Psychology
	ZOO 2015*^	Human Anatomy
GenEd: CS	COLS 1000^	Introduction to College Success: First-Year Seminar
GenEd: QR	MATH 1400*+	College Algebra 3
	OR HIGHER	
GenEd: CW	ENGL 1010*+	English I: Composition
		Prerequisite Credits 16
SPRING SEMES		
	ZOO 2025*^	Human Physiology 4
	PHYS 1050*	Concepts of Physics 4
	HLTK 1200	Medical Terminology
GenEd: CV	CO/M 2010*^	Public Speaking
	OR	
GenEd: CV	CO/M 1015*^	Foundations of Communication
	OR	
	CO/M 1030*^	Interpersonal Communication
		Prerequisite Credits 13
First Year		
SUMMER I		
SUMMERI	IMAG 2205*	Introduction to Diagnostic Medical Conggraphy 2
	IMAG 2203* IMAG 2212*	Introduction to Diagnostic Medical Sonography
	IMAG 2212*	Cross-Sectional Anatomy
		Choose from approved Exercise Science courses
FALL I		Semester Credits 7
FALL I	HLTK 2300*	Health Care Ethics
	IMAG 2210* IMAG 2220*	Ultrasound Physics I
		OB/GYN Sonography I
	IMAG 2221*	OB/GYN Sonography I Lab
	IMAG 2215*	Abdominal Sonography I
	IMAG 2216*	Abdominal Sonography I Lab
	RDTK 1520*	Radiography Patient Skills
		Semester Credits 13

IMAG 2240*Ultrasound Physics II3IMAG 2250*OB/GYN Sonography II2IMAG 2251*OB/GYN Sonography II Lab1IMAG 2245*Abdominal Sonography II/Small Parts.2IMAG 2246*Abdominal Sonography II/Small parts Lab1IMAG 2252*Introduction to Vascular Sonography2IMAG 2253*Introduction to Vascular Sonography Lab1Second Year11SUMMER IIIMAG 2254*DMS Beginning Clinical Experience6FALL III11	SPRING I				
IMAG 2250* OB/GYN Sonography II 2 IMAG 2251* OB/GYN Sonography II Lab 1 IMAG 2245* Abdominal Sonography II/Small Parts. 2 IMAG 2246* Abdominal Sonography II/Small parts Lab 1 IMAG 2252* Introduction to Vascular Sonography 2 IMAG 2253* Introduction to Vascular Sonography Lab 1 Second Year 1 1 Summer II IMAG 2254* DMS Beginning Clinical Experience 6 FALL II I 6		IMAG 2240*	Ultrasound Physics II		3
IMAG 2251* OB/GYN Sonography II Lab 1 IMAG 2245* Abdominal Sonography II/Small Parts. 2 IMAG 2246* Abdominal Sonography II/Small parts Lab 1 IMAG 2252* Introduction to Vascular Sonography Lab 1 IMAG 2253* Introduction to Vascular Sonography Lab 1 Second Year IMAG 2254* DMS Beginning Clinical Experience 6 FALL II IMAG 2254* DMS Beginning Clinical Experience 6		IMAG 2250*			
IMAG 2245* Abdominal Sonography II/Small Parts. 2 IMAG 2246* Abdominal Sonography II/Small parts Lab 1 IMAG 2252* Introduction to Vascular Sonography Lab 2 IMAG 2253* Introduction to Vascular Sonography Lab 1 Second Year IMAG 2254* DMS Beginning Clinical Experience 6 FALL II IMAG 2254* DMS Beginning Clinical Experience 6		IMAG 2251*	OB/GYN Sonography II Lab		1
IMAG 2246* Abdominal Sonography II/Small parts Lab 1 IMAG 2252* Introduction to Vascular Sonography Lab 2 IMAG 2253* Introduction to Vascular Sonography Lab 1 Second Year Semester Credits 12 SUMMER II IMAG 2254* DMS Beginning Clinical Experience 6 FALL II FALL II Fall II 1		IMAG 2245*	Abdominal Sonography II/Small Parts		2
IMAG 2252* IMAG 2253* Introduction to Vascular Sonography		IMAG 2246*			
IMAG 2253* Introduction to Vascular Sonography Lab. 1 Second Year Summer II 12 IMAG 2254* DMS Beginning Clinical Experience 6 FALL II Fall 6		IMAG 2252*			
Semester Credits 12 Second Year SUMMER II IMAG 2254* DMS Beginning Clinical Experience		IMAG 2253*			
SUMMER II IMAG 2254* DMS Beginning Clinical Experience			······	Semester Credits	12
SUMMER II IMAG 2254* DMS Beginning Clinical Experience	Second Yea	r			
IMAG 2254* DMS Beginning Clinical Experience6 Semester Credits 6 FALL II		-			
FALL II Semester Credits 6	SUMMERII		DMC Designing Clinical Evenerics		/
FALL II		IMAG 2254*	DMS Beginning Clinical Experience		0
	FALL II			Semester Credits	0
IMAG 2255* Sonography Clinical Experience I 11	FALL II		Concertantly Clinical Experience I		11
IMAG 2265* Registry Review I	Con Ed WW				
GenEd: WY POLS 1000* American and Wyoming Government	Genea: wy	POLS 1000*			
				Semester Credits	15
SPRING II	SPRING II	11400 2260*	Concernently Clinical Function of U		10
IMAG 2260* Sonography Clinical Experience II			Sonography Clinical Experience II		13
IMAG 2270* Registry Review II		IMAG 2270*		<u> </u>	<u>l</u>
Semester Credits 14				Semester Credits	14
Total Credits 96			-	Total Credits	96

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

If transferring to a four year college, CO/M 2010 is recommended.

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Students should take ZOO 2015 and ZOO 2025. Completion of ZOO 2010 and ZOO 2020 may be accepted however additional prerequisites apply for this option.

Some students may qualify for an exemption for COLS 1000 due to prior learning. Information is available on Page 37 of the catalog. See your Academic Advisor for assistance.

Other Information

Supplemental courses that may be taken to improve a students application score include any completion of Certified Nurse Assistant, Medical Assistant, Licensed Practical Nurse, Emergency Medical Technical or a minimum of one year of health training.

Drug Screening and Criminal Background Checks

All allied health students are required to submit a pre-clinical urine drug screen according to the policy of the Allied Health Programs at LCCC. The drug screen is completed at the student's expense and must be paid for at the time of application.

At their discretion, clinical sites may also require a drug screening and/or a criminal background check prior to allowing students into the clinical setting. (If required, any associated fees will be the responsibility of the student.) In addition, LCCC and the clinical sites may require random drug testing and/or drug testing for reasonable cause. Generally, the urine drug test screens for alcoholic beverages, illegal drugs, or drugs that impair judgment while in the clinical agency. Testing positive on the screening or evidence of tampering with a specimen will disqualify a student from participation from clinical assignment.

In addition to drug screening, for the safety of patients and health care workers, allied health workers must also undergo a background check performed at the student's expense. The student's acceptance will not be final until LCCC has received background check information from the reporting agencies, and the background check is clear of disqualifying offenses. For more information, please see the complete Health Sciences and Wellness Division Policy (pdf) for allied health students. Certain criminal activities, as evidenced by a criminal background check, may also disqualify a student from clinical participation.

Students are advised that the inability to gain clinical education experiences can result in the inability to meet program objectives and outcomes. These circumstances may prevent acceptance into and/or progression through the program and ultimately result in dismissal from the program.

NOTE: Applicants who have been convicted of a crime should contact www.ardms.org to determine if their conviction will prevent them from taking the certification boards and or the ability to obtain employment in a healthcare setting. Any student who cannot pass the background check and is not be eligible to attend clinicals will be dismissed from the program.

Diesel Technology

Associate of Applied Science

To earn an Associate of Applied Science degree in Diesel Technology, a student will need to complete the following program of study. The Diesel Technology program is designed to prepare students for employment in the diesel industry. The program also offers courses for those who want to upgrade their skills to meet personal objectives of learning about diesel technology. The diesel technology courses are designed to prepare students for the ASE certification exam.

First Year

1ST SEMESTER		TITLE CREDITS	-
	DESL 1501	Automotive and Diesel Industrial Safety	
	DESL 1540*	Diesel Electrical	5
	DESL 1610*	Engine Rebuilding I.	
GenEd: CS	DESL 1650* COLS 1000	Diesel Fuel Systems and Tuning I) ว
Genea: CS	COLS 1000	Semester Credits 14	5
2ND SEMESTER		Schester creatis	
	DESL 1700*	Diesel Drivetrain	5
	DESL 1755*	Heating, Air Conditioning, and Refrigeration	5
	DESL 2950*	Air Brakes, Suspension and Steering.	
GenEd: CW	ENGL 1010*+	English I: Composition	3
		Semester Credits 18	3
Second Year			
1ST SEMESTER			~
	WELD 1555	Welding Technology Safety (Fall Only)	
	WELD 1755	Shielded Metal Arc Welding I (Fall Only)	
GenEd: QR	WELD 1771*	Gas Metal Arc Welding/Flux Cored Arc Welding (Fall Only)	
Genea: QK	MATH 1510 or	Technical Mathematics I	>
GenEd: QR	MATH 1010+	Problem Solving	2
denlu. QK	OR HIGHER	riobieni Johning	,
GenEd: WY	OKINGHER	Choose from approved U.S./Wyoming Constitution courses.	3
		Semester Credits 10	
2ND SEMESTER			
	DESL 2515	Capstone Course for Diesel Technology (Spring Only)	
	ENTK 1080*	Principles of Technology (Spring Only)	
	OR	Choose from faculty-approved elective courses	
GenEd: CV	CO/M 2010*^	Public Speaking	3
	OR		~
GenEd: CV	CO/M 1015*^	Foundations of Communication	3
	OR CO/M 1030*^	Interpersonal Communication	2
		Interpersonal Communication	
			_
		Total Credits 62-64	Ł

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Diesel Technology

Credit Diploma

The Diesel Technology program is designed to prepare students for employment in the diesel industry. The program also offers courses for those who want to upgrade their skills or meet personal objectives of learning about diesel technology.

The nine-month program is designed for full-time students and courses are offered in a sequence of blocks. The block varies from three-to-four weeks in length depending on the number of credits for each course. The diesel technology courses are designed to prepare students for the ASE certification exam.

First Year		
1ST SEMESTER	COURSE	TITLE CREDITS
	DESL 1501	Automotive and Diesel Industrial Standards
	DESL 1540*	Diesel Electrical
	DESL 1610*	Engine Rebuilding I
	DESL 1650*	Diesel Fuel Systems Tuning5
		Semester Credits 16
2ND SEMESTER		
	DESL 1700*	Diesel Drive Train
	DESL 1755*	Heating and Air Conditioning
	DESL 2950*	Airbrake System, Suspension & Steering
		Semester Credits 15
		Total Credits 31

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Education

Associate of Arts

The Education program is for students interested in a teaching career in elementary or secondary education. Preservice teachers gain knowledge and skills by participating in student-centered activities, inquiry projects, and practical classroom experiences in public schools.

Program Articulation: This program is articulation with the University of Wyoming. Any deviations from the prescribed course list will not articulation.

First Year

1ST SEMESTER	COURSE EDFD 1010*	TITLE CRI Introduction to Teaching	
	EDFD 1010 EDFD 2020*	Foundations of Education	3
GenEd: LAB		Choose from approved Lab Science courses.	
		BIOL 1003 recommended.	
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar	3
GenEd: CW	ENGL 1010*+	English I: Composition	<u>3</u>
2ND SEMESTER		Semester Creatis	14
2ND SEMESTER	EDST 2450*	Human Life Span Development	3
GenEd: AA		Choose from approved Aesthetic Analysis courses.	
		MUSC 1000 recommended.	
GenEd: QR		Choose from approved Quantitative Reasoning courses.	3
GenEd: CA	GEOG 1000	MATH 1010 or MATH 1400 recommended. World Geography	2
Geneu: CA	OR)
GenEd: CA	GEOG 1020	Human Geography	3
GenEd: CV	CO/M 2010*	Public Speaking	3
		Semester Credits	15
Second Year			
IST SEMESTER			
131 SEWIESTER	EDEX 2484*	Introduction to Special Education	3
	ITEC 2360	Teaching with Technology.	
		Choose from faculty-approved elective courses.^	3
1		Choose from faculty-approved elective courses.^	
GenEd: WY	HIST 1211* OR	U.S. to 1865	3
GenEd: WY	HIST 1221*	U.S. from 1865	3
defield. W1	11101 1221	U.S. from 1865	15
2ND SEMESTER			
	EDFD 2100*	Educational Psychology	
	EDUC 2100*^	Public School Practicum	
GenEd: STEM		Choose from faculty-approved elective courses. [^]	
Genea. OTEM		Semester Credits	16-17

Total Credits 60-61

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Secondary majors are encouraged to take coursework relevant to their content area. Speak with a faculty advisor for elective recommendations.

Students must pass a background check and have at least a 2.5 GPA to enroll in EDUC 2100.

Education - Early Childhood Education

Associate of Arts

The Early Childhood Education program is designed to provide students an understanding of the cognitive, physical, social and emotional development of young children from infancy to middle childhood in diverse learning environments. The program of study is designed to combine theoretical and lab experiences for students to acquire skills and techniques required of early childhood care providers, as well as to develop career opportunity skills.

First Year

IST SEMESTER GenEd: AA GenEd: LAB GenEd: CS GenEd: CW	COURSE EDEC 1020 COLS 1000 ENGL 1010*+	TITLECREDITSIntroduction to Early Childhood3Choose from approved Aesthetic Analysis courses.3Choose from approved Lab Science courses.4Introduction to College Success: First-Year Seminar3English I: Composition3
		Semester Credits 16
2ND SEMESTER		
GenEd: CA GenEd: CV	EDEC 1100 EDEC 1200 EDEX 2484* PSYC 1000* CO/M 2010*	Observation and Guidance of Young Children (Spring Only) 3 Administration in Early Childhood Programs 3 Introduction to Special Education 3 General Psychology 3 Public Speaking 3 Semester Credits 15
Second Year		
1ST SEMESTER		
	EDEC 1300 FCSC 2122*	Curriculum Planning and Review for Young Children (Fall Only) 3 Child Growth and Development/Lab 1

	FCSC 2122*	Child Growth and Development/Lab 1
	HOEC 1140	Nutrition
	PSYC 2300*	Developmental Psychology 3
GenEd: WY	HIST 1211*	U.S. to 1865
	OR	
GenEd: WY	HIST 1221*	U.S. from 1865
GenEd: QR	MATH 1100*	Numbers and Operations for Elementary School Teachers
	OR	
GenEd: QR	MATH 1010+	Problem Solving
	OR	
GenEd: QR	MATH 1400+	College Algebra 3
	OR HIGHER	
		Semester Credits 15
2ND SEMESTER		
	EDEC 2200*	Early Childhood Practicum
		Choose from faculty-approved elective courses
		Choose from faculty-approved elective courses
GenEd: STEM		Choose from approved STEM courses 3-4
		Semester Credits 14-15
		Total Credits 60-61

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Education – Elementary Education Concentration

Associate of Arts

The Elementary Education Concentration is designed for students interested in pursuing a teaching career in an elementary (K-6) setting.

First Year		
1ST SEMESTER	COURSE EDEL 1430 EDFD 1010*	TITLE CREDITS Seminar in Life Science. 1 Introduction to Teaching 1
GenEd: CS GenEd: CW GenEd: LAB	EDFD 2020* COLS 1000 ENGL 1010*+ BIOL 1003	Foundations of Education 3 Introduction to College Success: First-Year Seminar 3 English I: Composition 3 Current Issues in Biology 4
doning a princip	5102 1009	Semester Credits 15
2ND SEMESTER GenEd: CA GenEd: CA	EDST 2450 EDEL 2280* ITEC 2360 GEOG 1000 OR GEOG 1020	Human Life Span Development3Literature for Children3Teaching with Technology3World Geography3Human Geography3
GenEd: CV	CO/M 2010*	Public Speaking
Second Year IST SEMESTER GenEd: QR GenEd: WY GenEd: WY	EDEX 2484* EDEL 1410* EDEL 1450 GEOG 1010* OR GEOL 1100* MATH 1100* HIST 1211* OR HIST 1221*	Introduction to Special Education. 3 Elementary School Mathematics Seminar I 1 Earth Science in the Elementary School 1 Introduction to Physical Geography 4 Physical Geology 4 Numbers and Operations for Elementary School Teachers 3 U.S. from 1865 3 Semester Credits 15
2ND SEMESTER GenEd: AA GenEd: STEM	EDFD 2100* EDUC 2100*^ HLED 2006* MATH 1105* MUSC 1000	Educational Psychology 3 Public School Practicum 2 Health for Elementary Educators. 1 Data, Probability, and Algebra for Elementary School Teachers 3 Introduction to Music 3 Choose from approved STEM courses. 3-4 Semester Credits 15-16
		Total Credits 60-61

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Students must pass a background check and have at least a 2.5 GPA to enroll in EDUC 2100.

Emergency Medical Services – Paramedic

Associate of Applied Science

- 4 37

The Associate of Applied Science degree in Emergency Medical Services – Paramedic program prepares competent entry-level paramedics for work in various emergency services fields. The program is limited to 15 students. Prospective students must pass a written exam, practical exam, and interview prior to being accepted into the program. All other LCCC application processes must also be met. Prerequisites for entry to the program are EMT-B State Certification and employment in the EMS field for at least one year or National Registry of Emergency Medical Technicians (NREMT) certification and employment in the EMS field for at least one year.

First Year				
1ST SEMESTER	COURSE	TITLE	CREI	
	HLTK 1200	Medical Terminology.		
1	EMT 1500	Emergency Medical Technician Basic (EMT-B)		
GenEd: CS	COLS 1000^	Introduction to College Success: First-Year Semi		
GenEd: CW	ENGL 1010*+	English I: Composition		
		Se	emester Credits	14
2ND SEMESTER	HLTK 2300	Health Care Ethics		2
GenEd: CV	CO/M 2010*^	Public Speaking		
Geneu: Cv	OR)
GenEd: CV	CO/M 1015*^	Foundations of Communication		3
delillu. Cv	OR)
	CO/M 1030*^	Interpersonal Communication		3
GenEd: QR	MATH 1010+	Problem Solving		
GenEd: WY		Choose from approved U.S./Wyoming Constituti	on courses	
denEd. W1			emester Credits	12
3RD SEMESTER			chiester creats	
	First year, 3rd semest	er requires students to gain a year of experience a	as an EMT	0
	3		emester Credits	0
Second Year				
1ST SEMESTER				0
	Second year, 1st sem	ester requires students to gain a year of experience	e as an EMT	
			emester Credits	0
		part of the closed Paramedic program and require a		ng
the entrance exam	ination. These courses	are taken over three semesters and must be taken s	sequentially.	
SPRING SEMEST	TER			
	EMGT 2500*	Paramedic Preparatory		
	EMGT 2515*	Paramedic Anatomy and Physiology		3
	EMGT 2525*	Paramedic Pharmacology		2
	EMGT 2535*	Paramedic Airway		
	EMGT 2545*	Paramedic Advanced Cardiac Life Support		4
	EMGT 2555*	Paramedic Advanced Medical Life Support.		3
		Se	emester Credits	16
SUMMER SEMES	STER			
	EMGT 2565*	Paramedic Pre-Hospital Trauma Life Support		2
	EMGT 2575*	Paramedic Special Populations and Operations		
	EMGT 2600*	Paramedic Clinical		5
		Se	emester Credits	10
FALL SEMESTER	2			
	EMGT 2620*	Paramedic Vehicular I		
	EMGT 2630*	Paramedic Vehicular II		
	EMGT 2700*	Paramedic Capstone		
		Se	emester Credits	16
			Total Credits	68

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Some students may qualify for an exemption for COLS 1000 due to prior learning. Information is available on Page 37 of the catalog. See your Academic Advisor for assistance.

Emergency Medical Services – Paramedic

Credit Diploma

The Emergency Medical Services – Paramedic credit diploma program is designed to prepare students for the National Registry for EMTs certification. The quality of the program helps establish the standard for Wyoming paramedic education. This 42 credit-hour credit diploma program is designed for full-time students. The program will be offered over three semesters and the courses are in a sequence that builds on each other. Prerequisite for entry into this program include EMT Basic or Intermediate status and instructor consent.

SPRING SEMESTER COURSE TITLE CREDITS EMGT 2500* Paramedic Anatomy and Physiology 3 EMGT 2515* Paramedic Pharmacology 2 EMGT 2525* EMGT 2535* EMGT 2545* EMGT 2555* SUMMER SEMESTER EMGT 2565* Paramedic Pre-hospital Trauma Life Support 2 Paramedic Special Populations and Operations EMGT 2575* 3 EMGT 2600* Paramedic Clinical 5 Semester Credits 10 FALL SEMESTER 7 EMGT 2620* Paramedic Vehicular I Paramedic Vehicular II EMGT 2630* . . 6 Paramedic Capstone EMGT 2700* . . 3 Semester Credits 16 **Total Credits** 42

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Engineering

Associate of Science

Engineering is an exacting applied science that requires a broad background of analytical skills. Many branches of engineering require specialization at the junior and senior levels. The Engineering program at Laramie County Community College gives students a general, transferable background in mathematics and engineering science necessary for later specialization. The program provides the equivalent of two years of a four-year engineering program in small classes with more individual attention than at most four-year institutions. With an Associate of Science in Engineering, students have a strong foundation in mathematics and engineering science needed to transfer and successfully complete a bachelor of science in a field of engineering at a four-year institution.

First Year

FALL SEMESTE	R COURSE	TITLE	CREDITS
	ES 1060*	Introduction to Engineering Computing	
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar	
GenEd: CW	ENGL 1010*+	English I: Composition	3
GenEd: LAB	CHEM 1020*	General Chemistry I	4
GenEd: QR	MATH 2200*+	Calculus I	4
		Semester Credit	s 17
SPRING SEMES	STER		
	ES 2110*	Statics	3
	MATH 2205*+	Calculus II	4
GenEd: CV	CO/M 2010*	Public Speaking	3
GenEd: CA		Choose from approved Cultural Awareness courses	3
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses	3
		Semester Credit	
_			
Second Yea	r		
FALL SEMESTE	R		
	ES 2120*	Dynamics	3
	ES 2410*	Mechanics of Materials.	3
	MATH 2210*+	Calculus III	
GenEd: AA	1011112210 1	Choose from approved Aesthetic Analysis courses	
GenEd: STEM	PHYS 1320*	College Physics II	4
denied. or ein	11110 1920	College Physics II.	rs 17
SPRING SEMES	STER		.5
	ES 2210*	Electric Circuit Analysis	4
	ES 2310*	Thermodynamics I	4
	ES 2330*	Fluid Dynamics	
	MATH 2310*	Applied Differential Equations	
		Semester Credit	ts 14
		Total Credit	ts 64
		Total Credit	.5 04

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Engineering Technology – Drafting and Design Concentration

Associate of Applied Science

The engineering technology program is designed to prepare student for entry-level positions as a technician in drafting and design. The drafting and design option leads to an Associate of Applied Science degree in Engineering Technology.

First Year		
1ST SEMESTER		TITLE CREDITS
	ENTK 1515*	Technical Drafting
	ENTK 1560 ENTK 1740*	Freehand Sketching, Inking, and Rendering for Drafting
	ENTK 2500*	Computer-Aided Drafting I
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	English I: Composition
		Semester Credits 18
2ND SEMESTER		
	ENTK 2505*	Computer-Aided Drafting II
	ENTK 2540* ENTK 2510*	Architectural Building Information Modeling Design II
GenEd: WY	EINIK 2010	Choose from approved U.S./Wyoming Constitution courses
GenEd: QR	MATH 1400+	College Algebra
	OR HIGHER	
		Semester Credits 15
Cocord Voor		
Second Year		
IST SEMESTER		TITLE CREDITS
	ENTK 1005* ENTK 2580*	Engineering Problem Solving with Spreadsheets
	ENTK 2550*	Civil Drafting Technology
	GEOG 1040	Mobile Mapping with GPS
GenEd: CV	CO/M 2010*^	Public Speaking
	OR	
GenEd: CV	CO/M 1015*^	Foundations of Communication
	OR CO/M 1030*^	
	MATH 1405*+	Interpersonal Communication
	OR	Choose from faculty-approved elective
		Semester Credits 16
2ND SEMESTER		
	ENTK 2520*	Advanced Mechanical Drafting
	ENTK 1080*	Principles of Technology (Spring Only) 4
	GEOG 1100*	Introduction to Geographic Information Systems
		Semester Credits 14
* m 1 · · · · ·	. 1	Total Credits 63

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Engineering Technology

Credit Diploma

The Engineering Technology credit diploma program is designed to provide students with the necessary skills in drafting technologies and to prepare them for entry-level positions.

First Year

E	COURSE ENTK 1005* ENTK 1740* ENTK 2500* ENTK 2580*	TITLE CRED Engineering Problem Solving with Spreadsheets. Architectural Building Information Modeling Design I Computer-Aided Drafting I MicroStation I Choose from ENTK, GEOG or HVAC approved elective courses. Semester Credits	1 3 3 3
E E E	ENTK 2505* ENTK 2510* ENTK 2520* ENTK 2540* ENTK 2550*	Computer-Aided Drafting II	3 3 3

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

English

Associate of Arts

The major in English enables students to develop and enrich reading, writing, and critical thinking skills by completing a variety of liberal arts courses. The major leads to an Associate of Arts degree and prepares students for various bachelor degree programs including administration, communication, English, journalism, prelaw, and pre-medicine. Note: Students who wish to be certified for public school teaching should consult the requirements for a secondary education major.

Program Articulation: This program is articulated with Valley City State University and the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year FALL SEMESTER COURSE CREDITS TITLE GenEd: CS COLS 1000 GenEd: CA PHIL 1000*^ GenEd: CV CO/M 2010* GenEd: CW ENGL 1010*+ GenEd: OR MATH 1010+ OR GenEd: QR MATH 1400+ **OR HIGHER** Semester Credits 15 SPRING SEMESTER ENGL 2020*^ English Literature: The Romantic Period to the Present ENGL 2220* OR American Literature: Pre-Colonial to Civil War (Spring Odd Years) 3 ENGL 2310* GenEd: LAB GenEd: WY HIST 1211* OR GenEd: WY HIST 1221* 3 Semester Credits Second Year FALL SEMESTER ENGL 2210* English Literature: Middle Ages to The Restoration (Fall Odd Years) 3 GenEd: STEM GenEd: AA HUMN 1010*^ Semester Credits 16-17 SPRING SEMESTER ENGL 2320* HUMN 1020*^ Total Credits 60-63

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

PHIL 1000, HUMN 1010 and HUMN 1020 will all satisfy the general education cultural awareness requirement; however, note that those seeking an AA in English must complete all three at some point in their course sequence.

ENGL 2020, HUMN 1010 and HUMN 1020 will all satisfy the general education aesthetic analysis requirement; however, note that those seeking an AA in English must complete all three at some point in their course sequence.

Equine Science

Associate of Science

The equine studies program offers three options leading to an associate's degree designed for students interested in equine science, business or training. Two of these options are designed for transfer to a university or four-year college. The equine studies program provides students with hands-on experience in training and horse health care to produce graduates who are in high demand in the equine industry. Built on a strong foundation of training and expertise, the nationally recognized program continually adapts to incorporating the latest techniques and scientific advances to best prepare students for success.

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year

FALL SEMESTEI	ANSC 1010	TITLE CREDITS Livestock Production 4
GenEd: CS GenEd: LAB GenEd: CW	EQST 1515 COLS 1000 BIOL 1010* ENGL 1010*+	Equine Science I (Fall Only). 4 Introduction to College Success: First-Year Seminar 3 General Biology. 4 English I: Composition 3 Semester Credits 18
		Semester Credits 18
GenEd: STEM GenEd: QR	EQST 1505 EQST 2516* EQST 2985 BIOL 2022* MATH 1400+ OR HIGHER	Basic Horsemanship (Spring Only)4Equine Science II (Spring Only)3Equine Business Law (Spring Only)3Animal Biology (Spring Only)4College Algebra3
		Semester Credits 17
Second Year	r	
FALL SEMESTEI	R	
GenEd: AA	CHEM 1000* EQST 2500* RGMG 2000	Introductory Chemistry. 4 Equine Health Management (Fall Only). 3 Principles of Range Management 3 Choose from approved Aesthetic Analysis courses. 3
GenEd: CA	AGEC 1010*	Agriculture Economics I
SPRING SEMES	TER	Semester Credits 16
	EQST 2520 STAT 2050*	Equine Reproduction (Spring Only)3Fundamentals of Statistics4
GenEd: CV	STAT 2070* CO/M 2010*	Introductory Statistics for the Social Sciences
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses. 3 Semester Credits 13
		Total Credits 64

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Equine Science – Business Management Concentration

Associate of Science

The equine business management program gives students a background in equine management with an emphasis on business management and professional skills. Students will have a working knowledge of the aspects of the horse, equine industry, and management of various aspects of the industry. This associate of science degree is designed to prepare students for transfer to a university for a bachelor's degree or careers in farm, barn, and program management; feed and pharmaceutical sales; breed association management; equine publications; and other related industry fields.

First Year

FALL SEMESTER	R COURSE BADM 1000*	TITLECREDITSIntroduction to Business3
GenEd: CS GenEd: LAB GenEd: CW	EQST 1515 COLS 1000 BIOL 1010* ENGL 1010*+	Equine Science I (Fall Only)4Introduction to College Success: First-Year Seminar3General Biology4English I: Composition3
		Semester Credits 17
SPRING SEMES	TER	
	ACCT 2010*	Principles of Accounting I
	EQST 2516*	Equine Science II (Spring Only)
	EQST 2985	Equine Business Law (Spring Only)
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: QR	MATH 1400+	College Algebra
	OR HIGHER	
		Semester Credits 15
Second Year		

FALL SEMESTER ACCT 2020* EQST 2500* MGT 2100 Principles of Management 3 GenEd: CA AGEC 1010*^ OR GenEd: CA ECON 1010*^ GenEd: WY Semester Credits 15 SPRING SEMESTER AGEC 1020*^ OR Principles of Microeconomics 3 ECON 1020*^ EQST 2520 MKT 2100 GenEd: STEM STAT 2050* OR STAT 2070* GenEd: STEM GenEd: AA Choose from approved Aesthetic Analysis courses..... 3 Semester Credits 16 63 **Total Credits**

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Students should take AGEC 1010 and AGEC 1020, or ECON 1010 and ECON 1020.

Equine Science – Training Management Concentration

Associate of Applied Science

This program of study includes a balance of classroom instruction and sequential laboratory experiences leading to an associate of applied science degree. Students learn how to train horses and manage farms upon completion of the program. Admission to the equine training management program is competitive. Please contact the equine studies department or the LCCC Admissions Office for procedures and deadlines. Admission to LCCC does not assure admission to the equine training management program; a supplemental program application is required.

First Year

FALL SEMESTE	R COURSE	TITLE	CREDITS
	EQST 1515	Equine Science I (Fall Only)	
	EQST 1550	Equine Evaluation I (Fall Only)	
	EQST 1900	Basic Management and Training (Fall Only).	
GenEd: CS	COLS 1000	Introduction to College Success: First-Year	Seminar 3
GenEd: CW	ENGL 1010*+	English I: Composition	<u></u>
SPRING SEMES	TED		Semester Credits 17
SPRING SEMIES	EQST 2516*	Equine Science II (Spring Only)	2
	EQST 2910 EQST 2825*	Advanced Horse Management and Training	
	EQST 2985	Equine Business Law (Spring Only)	(opting Only)
GenEd: CV	CO/M 2010*	Public Speaking.	
GenEd: OR	MATH 1010+	Problem Solving	
denied. art	OR HIGHER		
			Semester Credits 16
- 1			
Second Yea	r		
FALL SEMESTE	R		
	ANSC 1010	Livestock Production	
	EQST 2500*	Equine Health Management (Fall Only)	
	EQST 2700	Equine Seminar (Fall Only)	
	EQST 2560*	Advanced Training Techniques (Fall Only)	
1	RGMG 2000*	Principles of Range Management	
GenEd: WY		Choose from approved U.S./Wyoming Cons	
	TED		Semester Credits 18
SPRING SEMES	AGRI 1010	Computers: Agriculture	3
	CO/M 1030*	Interpersonal Communication	
	EQST 2520*	Equine Reproduction (Spring Only)	
	EQST 2920	Fundamentals of Teaching Riding (Spring Or	
	EQST 2000 EQST 2975*	Individualized Training (Spring Only)	
	OR	mainadalized framing (opting Only)	••••••
	EQST 2970*	Internship (Spring or Summer)	
		Internship (Spring or Summer)	Semester Credits 15
		· · · · · · · · · · · · · · · · · · ·	Total Credits 66
* 00 1	. 1		

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Exercise Science

Associate of Science

The Laramie County Community College Exercise Science program is concerned with the many aspects of human movement and its application to physical activity and the quality of one's life. This program is suggested for students who are interested in a career in exercise science, sports medicine, physical therapy, athletic training, physical education teacher education (PETE), occupational therapy or related fields. Students complete coursework that provides a solid knowledge base of human anatomy, physiology, chemistry, and health. Two program tracks are available depending on the student's interest and career goals. All students must complete the general education core and complete either the Exercise Science track or the Physical Education Teaching (PETE) track. Students are urged to study carefully the specific requirements of the institutions to which they plan to transfer. Based on student transfer needs, course substitutions are possible; however, the degree requirements must be met. Please see an Exercise Science advisor for a suggested program schedule.

The Exercise Science track leads to an associate of science degree and is designed to provide students quality academic and professional preparation in the scientific study of human movement. The program offers a sound theoretical foundation and practical applications. While students must receive a bachelor's degree, many of these fields also require a master's degree or beyond.

Program Articulation: This program is articulated with the University of Wyoming and Colorado Mesa University. Any deviations from the prescribed course list will not articulate.

First Year

FALL SEMESTED GenEd: CS GenEd: CW GenEd: QR	R COURSE PEAC 1295 HLED 1221 KIN 1100 COLS 1000 ENGL 1010*+ MATH 1400*+ OR HIGHER	TITLECREDITSIndividual Exercise Programs.1Standard First Aid and Safety.2Kinesiology: The Science of Human Movement.3Introduction to College Success: First-Year Seminar.3English I: Composition.3College Algebra.3
	TED	Semester Credits 15
SPRING SEMES GenEd: LAB GenEd: STEM	HOEC 1140 HLTK 1210 KIN 2135* BIOL 1010 CHEM 1000* OR	Nutrition2Human Body Systems3Personal Trainer Education3General Biology4Introductory Chemistry4
GenEd: STEM	CHEM 1020*	General Chemistry I
Second Year		
FALL SEMESTEI	2	
GenEd: CV GenEd: CA GenEd: WY	KIN 2470* EDST 2450* ZOO 2015*^ CO/M 2010* PSYC 1000*	Exercise Science Practicum I 1 Human Life Span Development 3 Human Anatomy 4 Public Speaking 3 General Psychology 3 Choose from approved U.S./Wyoming Constitution courses. 3 Semester Credits 17
SPRING SEMES	TER	Semester Credits 17
GenEd: AA	PEPR 2050* KIN 2471* HLED 1006* ZOO 2025*^	Prevention and Care of Athletic Injuries2Exercise Science Practicum II2Personal Health3Human Physiology4Choose from approved Aesthetic Analysis courses3Semester Credits14
		Total Credits 62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Students should take ZOO 2015 and ZOO 2025, however completion of ZOO 2010 and ZOO 2020 may be accepted.

Exercise Science – Personal Trainer

Credit Diploma

The Personal Trainer program is designed to assist students in gaining the knowledge and skills required to become a certified personal trainer. Students who complete the certificate will be well prepared to sit for national exams offered by certifying agencies. These agencies include the American College of Sports Medicine, the National Strength and Conditioning Association, and the American Council on Exercise.

Personal trainers that have been certified through one of the listed agencies are eligible to be employed at any major health club such as 24 Hour Fitness, Gold's Gym and the YMCA. Students may also begin a private business as a personal trainer or work within organizations as health and wellness coaches.

By completion of the certificate students will learn how to design, implement, and evaluate individual exercise programs; perform fitness assessments; and explain physiological changes that occur during exercise. Students who complete this certificate and pass the certifying agencies exam, which can be taken on the LCCC campus, can begin training clients while working on their AS or BS in Exercise Science. At the completion of the Personal Trainer program students may take the national certification exam which is an additional cost of approximately \$280.00.

First Year

FALL SEMESTER COURSE	TITLE CREDITS
HLED 1221	Standards First Aid and Safety 2
HLTK 2300	Health Care Ethics
KIN 1006*	Fitness Component: Flexibility 2
KIN 1008*	Fitness Component: Muscular Strength/Muscular Endurance
PEAC 1295	Individualized Exercise Program
PEPR 2050*	Care and Prevention of Athletic Injuries
	Semester Credits 12
SPRING SEMESTER	
HLTK 1210	Human Body Systems
HOEC 1140	Nutrition
KIN 1007*	Fitness Component: Cardiovascular Endurance
KIN 2135*	Personal Trainer Education
KIN 2470*	Exercise Science Practicum I 1
	Semester Credits 11
	Total Credits 23

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Exercise Science – Physical Education Teacher Education Concentration

Associate of Science

The Laramie County Community College Exercise Science program is concerned with the many aspects of human movement and its application to physical activity and the quality of one's life. This program is suggested for students who are interested in a career in exercise science, sports medicine, physical therapy, athletic training, physical education teacher education (PETE), occupational therapy or related fields. Students complete coursework that provides a solid knowledge base of human anatomy, physiology, and health. Two program tracks are available depending on the student's interest and career goals. All students must complete the general education core and complete either the Exercise Science track or the Physical Education Teacher Education (PETE) track.

The PETE track leads to an Associate of Science degree and is designed to prepare students to meet academic standards leading to a bachelor degree at a four year institution. Students are exposed to behavioral, humanistic, and pedagogical studies that foster an understanding of schools as an institution and the value of physically active lifestyles in Pre K-12 students. Students interested in coaching or recreation-oriented careers may also find this program of interest.

Program Articulation: This program is articulated with the University of Wyoming and Colorado Mesa University. Any deviations from the prescribed course list will not articulate.

First Year

FALL SEMESTE	R COURSE	TITLE CRE	DITS
	PEAC 1295	Individual Exercise Programs	
	KIN 1006*	Fitness Component: Flexibility	2
	KIN 1100	Kinesiology: The Science of Human Movement	
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar	
GenEd: CW	ENGL 1010*+	English I: Composition	
GenEd: QR	MATH 1400*+	College Algebra	3
	OR HIGHER		
		Semester Credits	15
SPRING SEMES			
	PEPR 1470	PETE Practicum I	
	KIN 1007*	Fitness Component: Cardiovascular Endurance.	2
	HLED 1006*	Personal Health	
	HLTK 1210	Human Body Systems	
GenEd: CV	CO/M 2010*	Public Speaking	
GenEd: LAB	BIOL 1010*	General Biology	4
		Semester Credits	16
Second Yea	r		
FALL SEMESTE			
TALL SEWILSTE	PEPR 2470*	PETE Practicum II	1
	HOEC 1140	Nutrition	
	HLED 1221	Standard First Aid and Safety	
	KIN 1008*	Fitness Component: Muscular Strength/Muscular Endurance	
	PEPR 2050*	Prevention and Care of Athletic Injuries	
	ZOO 2015*^	Human Anatomy	
GenEd: CA	PSYC 1000*	General Psychology.	3

SDDING SEMESTED

SPRING SEME	SIER		
	PEPR 2475*	PETE Practicum III	1
	ZOO 2025*^	Human Physiology	4
GenEd: AA		Choose from approved Aesthetic Analysis courses	
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses.	3
GenEd: STEM	STAT 2050*	Fundamentals of Statistics	4
		Semester Credits 1	5
		Total Credits 6	2

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Semester Credits

16

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Students should take ZOO 2015 and ZOO 2025, however completion of ZOO 2010 and ZOO 2020 may be accepted.

Exercise Science – Sport Management Concentration

Associate of Science

Circt Voor

The Laramie County Community College Exercise Science program is concerned with the many aspects of human movement and its application to physical activity and the quality of one's life. This program is suggested for students who are interested in a career in exercise science, sports medicine, physical therapy, athletic training, physical education teacher education (PETE), occupational therapy or related fields. Students complete coursework that provides a solid knowledge base of human anatomy, physiology, chemistry, and health. Three program concentrations are available depending on the student's interest and career goals. All students must complete the general education core and complete either the Exercise Science curriculum, Physical Education Teaching (PETE) or Sport Management concentrations. Students are urged to study carefully the specific requirements of the institutions to which they plan to transfer. Based on student transfer needs, course substitutions are possible; however, the degree requirements must be met. Please see an Exercise Science advisor for a suggested program schedule.

The Sport Management Concentration leads to an Associate of Science degree and is designed to provide students quality academic and professional preparation in the business of sport in all of its many facets. The program offers a sound theoretical foundation and practical applications. Students plan, organize, lead, and evaluate within the context of a sport organization and/or environment. This degree provides the theoretical and practical framework for a number of professions that focus on leadership roles including youth, amateur and professional sports; recreational, college, and university sport programs; and the marketing and management of all sport and fitness-related goods.

Program Articulation: This program is articulated with Colorado Mesa University. Any deviations from the prescribed course list will not articulate.

First Year		
FALL SEMESTE	R COURSE KIN 1010	TITLECREDITSIntroduction to Sport Management3
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: CW	ENGL 1010*+	English I: Composition
GenEd: QR	MATH 1400*+	College Algebra
	OR HIGHER	
		Semester Credits 15
SPRING SEMES	STER	
	BADM 1000	Introduction to Business
	HLED 1006	Personal Health
	HLED 1221	Standard First Aid and Safety 2
	KIN 2472*	Sport Management Practicum I
GenEd: LAB		Choose from approved Lab Science courses
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
		Semester Credits 16
Second Yea	r	
FALL SEMESTE	R	
	COSC 1200	Computer Information Systems
	ECON 1010	Principles of Macroeconomics
	KIN 2473*	Sport Management Practicum II
	SOC 1150	Sociology of Sport
GenEd: STEM		Choose from approved STEM courses
		Semester Credits 14-15
SPRING SEMES	STER	
	KIN 2474*	Sport Management Practicum III
	MGT 2100	Principles of Management
	MKT 2100	Principles of Marketing
GenEd: AA		Choose from approved Aesthetic Analysis courses
GenEd: CA		Choose from approved Cultural Awareness courses
		Semester Credits 15
		Total Credits 60-61
* This course has	s at least one prerequ	uisite. Check the Course Descriptions section of the catalog to see the course pr

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Fire Science Technology

Associate of Applied Science

The Fire Science Technology program is designed to meet the demands of fire service personnel. The program prepares students for a career in fire service (career or volunteer). Courses are offered through traditional classroom instruction, independent study, lab, and an academy setting. The program prepares students to take the Wyoming State Firefighter II nationally accredited certification exam. This certification is transferable from state-to-state within a one-year period from program completion. Experienced firefighters may earn credits transferable to the program from on-the-job training and current certifications.

First Year		
IST SEMESTER	COURSE FIRE 1501 FIRE 1760	TITLECREDITSPrinciples of Emergency Services.3Building Construction.3
GenEd: CS GenEd: CW GenEd: CV	COLS 1000 ENGL 1010*+ CO/M 2010*^ OR	Introduction to College Success: First-Year Seminar 3 English I: Composition 3 Public Speaking 3
GenEd: CV	CO/M 1015*^ OR	Foundations of Communication
	CO/M 1030*^	Interpersonal Communication
2ND SEMESTER	FIRE 2800*	Fire Academy
Second Year		
1ST SEMESTER	HLTK 1200 FIRE 1810 FIRE 1825	Medical Terminology.2Introduction to Wildland Firefighting4Fire Behavior and Combustion.3
GenEd: WY GenEd: QR	MATH 1010+ OR HIGHER	Choose from approved U.S./Wyoming Constitution courses
OND GEMESTED		Semester Credits 15
2ND SEMESTER	FIRE 1700 FIRE 2500 EMT 1500	Introduction to Fire Prevention 3 Fire Investigator I. 3 Emergency Medical Technician Basic (EMT-B) 6 Semester Credits 12
3RD SEMESTER		
	HLTK 2300* FIRE 1510* FIRE 1725 FIRE 2550* FIRE 1625*	Healthcare Ethics3Firefighting Strategies and Tactics I3Fire Protection Systems3Fire Investigator II3Fire Protection Hydraulics and Water Supply3
	OR FIRE 2610 OR	Chemistry of Hazardous Materials
	FIRE 2970*^	Firefighter Field Experience
		Total Credits 65-66

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

FIRE 2970 must be taken for a minimum of 4 credit hours to meet program elective credit hour requirements.

Government Studies

Associate of Arts

First Vear

The Associate of Arts in Government Studies program prepares students for analyzing government and politics at the local, state, national and international levels. Laramie County Community College's location in Wyoming's capital city of Cheyenne affords opportunities for students to study government "up close and personal." Government studies courses at LCCC (listed with POLS prefix) provide the basis for either entry-level careers in government or preparation to transfer to a four-year program in political science or related fields.

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

POLS 2470 must be taken for a minimum of three credit hours.

Program Electives - Students may choose from the following faculty approved program electives.

Iogram Liectives	oruacinto int	if choose nom the following faculty upp
ANTH 1200	3 credits	Introduction to Cultural Anthropology
ECON 1010	3 credits	Principles of Macroeconomics
ECON 1020	3 credits	Principles of Microeconomics
GEOG 1020	3 credits	Human Geography
HIST 1110	3 credits	Western Civilization I
HIST 1120	3 credits	Western Civilization II
HIST 1211	3 credits	U.S. to 1865
HIST 1221	3 credits	U.S. from 1865
MATH 2200	4 credits	Calculus I
PHIL 1000	3 credits	Introduction to Philosophy
PHIL 2221	3 credits	Logic
PHIL 2301	3 credits	Ethics
PSYC 1000	3 credits	General Psychology
SOC 1000	3 credits	Sociological Principles
T 1	C · 1 C	

Two semesters of a single foreign language (not sign language).

Health Information Technology and Management

Associate of Applied Science

The Health Information Technology and Management Associate of Applied Science degree combines coding in health care with health information management. Health information technologists serve the health care industry and the public consumer by managing, analyzing, and reporting health data required for the delivery of patient care, reimbursement, and quality management. Health information technologists specialize in managing and protecting medical records; administering health information management systems; and coding for reimbursement, research, and quality care. The AAS degree program of study contains courses from both the Medical Office Essentials credit diploma and the Medical Claims Coding Associate credit certificate with the addition of health information technology and leadership courses that students need to advance their careers within the administrative side of the medical field.

First Year

FALL SEMESTER COURSE HIT 1500 HIT 1510 HIT 1550 HLTK 1200 GenEd: CS COLS 100	TITLECREDITSIntroduction to Health Care Careers and Workplace Preparedness4Computer Software for Medical Office Professionals4Medical Office Procedural Skills3Medical Terminology2Introduction to College Success: First-Year Seminar3
Gened: CS COLS 100	Semester Credits 16
SPRING SEMESTER	
HLTK 1210 HIT 1600* MEDC 150 MEDC 170 MEDC 177 GenEd: CW ENGL 101	Reimbursement Methodologies3Disease Processes in Coding3+English I: Composition3
	Semester Credits 17
Second Year	
FALL SEMESTER	
MEDC 155 MEDC 160 MEDC 165 MEDC 165 MEDC 197 GenEd: QR MATH 101 OR HIGH	Basic CPT Coding3Advanced CPT Coding2Professional Practice Experience (Coding)2Problem Solving3
GenEd: CV CO/M 201	
GenEd: CV CO/M 101 OR	
CO/M 103	^ Interpersonal Communication
SPRING SEMESTER	
HIT 2500* HIT 2550* HIT 2600* HIT 2970* MGT 2100 GenEd: WY	Health Data Management 2 Health Care Quality and Performance Improvement 2 Health Information Application Skills 3 Professional Practice Experience (HIM) 2 Principles of Management 3 Choose from approved U.S./Wyoming Constitution courses. 3 Semester Credits 15

Total Credits 63

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Other Information

The Health Information Technology and Management program is a fully online program with an online lab component. Acceptance into the program is required prior to course registration. Prospective students interested in the program may contact the program director for details about the program admission process and timeline. Additional information is also available on the program website at lccc.wy.edu/programs/healthinformationtechnology.

Drug Screening and Criminal Background Checks

All allied health students are required to submit a pre-clinical urine drug screen according to the policy of the Allied Health Programs at LCCC. The drug screen is completed at the student's expense and must be paid for at the time of application. In addition to drug screening, for the safety of patients and health care workers, allied health workers must also undergo a background check performed at the student's expense. Acceptance into the program is conditional based upon satisfactory completion of a criminal background check and drug screen. The student's acceptance will not be final until LCCC has received background check information from the reporting agencies, and the background check is clear of disqualifying offenses. Instructions for completion will be provided once a student is accepted into the program. Testing positive on the drug screening or evidence of tampering with a specimen will disqualify a student from participation in the program. Certain criminal activity, as evidenced by a criminal background check, may also disqualify a student from program participation. See school policy at lccc.wy.edu/academics/divisions/HSW. These circumstances may prevent acceptance into and/or continuance in the program.

HIT – Medical Office Essentials

Credit Diploma

The Medical Office Essentials credit diploma provides the necessary skills to perform successfully in entrylevel administrative positions in the healthcare field. These support skills cover managing day-to-day medical office operations, understanding legal and ethical issues in healthcare operations, HIPAA, customer service, professionalism and computer fundamentals customized for medical offices. Once students have completed the Medical Office Essentials credit diploma they may take additional specialized courses in coding and health information technology and management.

First Year

FALL SEMESTER COURSE	TITLE	CR	EDITS
ENGL 1010*+	English I: Composition		
HIT 1500	Introduction to Heath Care Careers and Wor		
HIT 1510	Computer Software for Medical Office Profe		
HIT 1550	Medical Office Procedural Skills		
HLTK 1200	Medical Terminology		2
		Semester Credits	16
	-	Total Credits	16

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Other Information

Acceptance into the program is required prior to course registration. Prospective students interested in the program may contact the program director for details about the program admission process and timeline. Additional information is also available on the program website at lccc.wy.edu/programs/healthinformationtechnology.

HIT – Medical Claims Coding Associate

Credit Certificate

The Medical Claims Coding Associate credit certificate builds on the Medical Office Essentials credit diploma and addresses specialized skills in medical coding and reimbursement, including advanced techniques in medical insurance, reimbursement methodologies, basic health information management, electronic health records and basic and advanced coding, emphasizing CPT/HCPCS and ICD coding. The coding courses prepare students for a national coding exam through the American Health Information Management Association (AHIMA) or the American Association of Professional Coders (AAPC). The courses for the Medical Office Essentials credit diploma are embedded in the Medical Claims Coding Associate credit certificate.

First Year

FALL SEMEST	ER COURSE HLTK 1200	TITLE CREDITS Medical Terminology. 2
	HIT 1500	Introduction to Health Care Careers and Workplace Preparedness 4
	HIT 1510	Computer Software for Medical Office Professionals
	HIT 1550	Medical Office Procedural Skills.
		Introduction to College Guerres First Very Consistent
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
		Semester Credits 16
SPRING SEME		
	HLTK 1210	Human Body Systems
	HIT 1600*	Introduction to Health Information
	MEDC 1700*	Reimbursement Methodologies
	MEDC 1500*	Basic Diagnostic Coding 3
	MEDC 1750*	Disease Processes in Coding 3
GenEd: CW	ENGL 1010*+	English I: Composition
		English I: Composition
Second Yea	ar	
FALL SEMEST	FR	
THEE DEMEDT	MEDC 1550*	Advanced Diagnostic Coding 2
	MEDC 1600*	Basic CPT Coding
	MEDC 1650*	Advanced CPT Coding
	MEDC 1070	
GenEd: OR		Professional Practice Experience (Coding)
Genea: QR	MATH 1010+	Problem Solving
•	OR HIGHER	
GenEd: CV	CO/M 2010*	Public Speaking
	OR	
	CO/M 1015*	Foundations of Communication
		Semester Credits 15

Total Credits 48

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Other Information

The Health Information Technology and Management program is a fully online program with an online lab component. Acceptance into the program is required prior to course registration. Prospective students interested in the program may contact the program director for details about the program admission process and timeline. Additional information is also available on the program website at lccc.wy.edu/programs/healthinformationtechnology.

Health Sciences

Associate of Science

The Health Sciences degree is recommended for those students who desire a health science generalist curriculum. It provides the general education core curriculum enhanced with health science related courses, that allows a student the flexibility to move into various healthcare career pathways. Because of the varied pathways possible, students are urged to work closely with their advisor in outlining the pathway most appropriate to meet their goal.

First Year 1ST SEMESTER COURSE TITLE CREDITS Medical Terminology..... 2 HLTK 1200 GenEd: CS **COLS 1000** GenEd: CW ENGL 1010*+ GenEd: LAB BIOL 1010* OR GenEd: LAB CHEM 1000* Introduction to Chemistry 4 GenEd: OR MATH 1400+ **OR HIGHER** Semester Credits 15 **2ND SEMESTER** HLTK 1210* HLTK 2510* GenEd: CV CO/M 2010* GenEd: STEM ZOO 2015*^ Choose from **one** of the following GenEd: CA courses: AMST 2110* Introduction to Cultural Anthropology 3 ANTH 1200 CO/M 2500* EDST 2450* PSYC 1000* Sociological Principles SOC 1000 3 Semester Credits 15 Second Year **1ST SEMESTER** HLTK 2300* HOEC 1140 ZOO 2025*^ Human Physiology 4 GenEd: AA GenEd: WY Choose from approved U.S./Wyoming Constitution courses. Semester Credits 15 2ND SEMESTER MICR 2240* Medical Microbiology 4 Choose from *two* of the following GenEd: CA courses: AMST 2110* ANTH 1200 CO/M 2500* EDST 2450* Human Life Span Development 3 PSYC 1000* Sociological Principles SOC 1000 3 17 **Semester Credits Total Credits** 62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Students should take ZOO 2015 and ZOO 2025. Completion of ZOO 2010 and ZOO 2020 may be accepted however additional prerequisites apply for this option.

Associate of Applied Science

The energy efficient Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R) program is designed for students who want to gain valuable industry skills and also want to pursue a basic academic foundation. The Associate of Applied Science degree includes general education requirements; HVAC/R installation, repair, and maintenance knowledge and skills; thermal dynamics, fluid dynamics, and electrical topics – all of which are combined to provide the groundwork for direct industry employment. For individuals desiring faster entry into the workforce, a basic and advanced credit diploma is offered.

The HVAC/R AAS program is designed for students to begin training during the spring semester. Students interested in the HVAC/R AAS program who would like to start in the fall should contact their advisor for completion of the program's general education requirements.

First Year

SPRING SEMES			
	COURSE	TITLE CRE	DITS
	HVAC 1600	Mechanical Piping Systems	
	HVAC 1610	Heating and Air Conditioning Principles.	
	HVAC 1620*	Refrigeration Circuit Components (Spring Only)	
	HVAC 1630*	Energy Efficient Residential Heating Systems (Fall or Spring)	
	IST 1710	DC Electricity	
	IST 1710	DC Electrical Circuits	
	IST 1712*	AC Electricity	
	IST 1712	AC Electrical Circuits	
ConEd CC		AC Electrical Circuits	1
GenEd: CS	COLS 1000	Introduction to College Success: First-Year <u>Seminar</u>	··· 3
FALL SEMESTER	2	Semester Creatis	22
THEE GENIEGTED	HVAC 1640*	Automatic Building Controls (Fall Only)	3
	HVAC 1650*	Residential Air Conditioning Systems (Fall or Spring)	
	HVAC 1660*	HVAC Distribution Systems (Fall Only)	
	HVAC 1670*	Light Commercial Refrigeration Systems (Fall Only)	3
GenEd: CW	ENGL 1010*+	English I. Composition	
deniza. en	2.102.1010	English I: Composition	15
- 1			
Second Year	ſ		
SPRING SEMES	TER		
	HMDV 1510	Success in the Workplace	
	IST 1520	Introduction to Industrial Safety	1
	IST 1770*	Motors Controls	2
	IST 1771*	Motors Control and Circuits	1
	IST 1780*	Electric Motors	
	IST 1781*	Electric Motors Circuits	
GenEd: OR	MATH 1510*+	Technical Mathematics I	
doniba. an	OR		
GenEd: QR	MATH 1010+	Problem Solving	3
	OR HIGHER	-	
GenEd: WY	ECON 1200*	Economics, Law, and Government	3
		Semester Credits	16
FALL SEMESTER	R		~
		Choose from faculty-approved elective courses.	
		Choose from faculty-approved elective courses.	
GenEd: CV	CO/M 2010*^	Public Speaking	3
	OR		
GenEd: CV	CO/M 1015*^	Foundations of Communication	3
	OR		
	CO/M 1030*^	Interpersonal Communication	3
		Semester Credits	9
		Total Credits	62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Basic HVAC/R Technician

Credit Diploma

The Basic HVAC/R program is designed for students who wish to gain the basic skills required to enter the HVAC/R workforce. Students are introduced to basic concepts such as AC and DC Electricity, Heating and Airconditioning, Refrigeration System Components, Mechanical Piping Skills and Residential Heating Systems.

Completion of the Basic HVAC/R Technician credit diploma is required for enrollment in the Advanced HVAC/R Technician credit diploma courses.

The Basic HVAC/R Technician is a spring only start.

First Year				
SPRING				
SEMESTER	COURSE	TITLE	CREI	DITS
	HVAC 1600	Mechanical Piping Systems		3
	HVAC 1610	Heating and Air Conditioning Principles		
	HVAC 1620*	Refrigeration Circuit Components		
	HVAC 1630*	Energy Efficient Residential Heating Systems		
	IST 1710	DC Electricity		2
	IST 1711	DC Electrical Circuits		
	IST 1712*	AC Electricity		2
	IST 1713	AC Electrical Circuits		1
		Se	mester Credits	19
			Total Credits	19

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Advanced HVAC/R Technician

Credit Diploma

The Heating, Ventilation and Air Conditioning/Refrigeration (HVAC/R) Advanced credit diploma program is for technicians seeking advanced skills in the HVAC/R industry. Students are introduced to advanced concepts to include building efficiency, automatic building controls, air distribution systems, and light commercial refrigeration. Credit earned while pursuing the advanced certificate can be applied to earning an associates of applied science degree.

Completion of the Basic HVAC/R Technician credit diploma is required for enrollment in the Advanced HVAC/R Technician credit diploma courses.

First Year FALL SEMESTER COURS

ALL SEMESTER COURSE	TITLE	CREI	DITS
HVAC 1640*	Automatic Building Controls		3
HVAC 1650*	Residential Air Conditioning Systems		3
HVAC 1660*	HVAC Distribution Systems		
HVAC 1670*	Light Commercial Refrigeration Systems		
IST 1520	Introduction to Industrial Safety		1
IST 1770*	Motors Controls		2
IST 1771*	Motors Control and Circuits		1
IST 1780*	Electric Motors		2
IST 1781*	Electric Motors Circuits		1
	-	Semester Credits	19
	-	Total Credits	19

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

History

First Year

Associate of Arts

The Associate of Arts degree in history is designed to prepare students for advancement toward a bachelor's degree at a four-year educational institution. By successfully completing the following curriculum, students are prepared to enter the University of Wyoming as juniors. A degree in history offers a solid liberal arts education, thereby preparing students for academic advancement in program areas other than history. Students should consult with an advisor in order to ensure that courses are appropriate and transferable. A major in history opens career possibilities in such areas as historical and archival research, museology, and historic site restoration and interpretation. A number of state and federal agencies employ historians in order to collect, preserve, record, interpret, and display elements of this country's heritage. Advanced degrees are usually prerequisites for these types of positions. An extensive background in history is also a must for many secondary social studies teachers.

All History students need to meet with their faculty advisor in order to discuss the opportunities that exist in History and choose a path that is appropriate to their goals. Students interested in pursuing a concentration or a degree in History are encouraged to consult with the History faculty concerning course sequencing.

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First year		
1ST SEMESTER	COURSE	TITLE CREDITS
	HIST 1211*	U.S. to 1865
GenEd: CA		Choose from approved first-year foreign language courses 4
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	English I: Composition
GenEd: QR	MATH 1000*+	Integrated Problem Solving Quantway II
Carefal OD	OR	College Masher
GenEd: QR	MATH 1400*+	College Algebra
2ND SEMESTER		Semester credits 10
2110 SEMESTER	HIST 1110^	Western Civilization I (Spring Only)
		Choose from approved second-year foreign language courses
GenEd: AA		Choose from approved Aesthetic Analysis courses
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: STEM		Choose from faculty-approved STEM courses
		Semester Credits 16-17
Consul Voor		
Second Year	•	
1ST SEMESTER		
	HIST 1221*	U.S. from 1865
	HIST 1251*	Wyoming History
	OR HIST 2290*^	Distance (Next) Answirsen Indiana (Fall Out)
	OR	History of North American Indians (Fall Only)
	HIST/WMST 2389*	History of Women and the American West (Spring Only)
	111017 W10101 2009	Choose from faculty-approved elective courses. [^]
GenEd: LAB	GEOG 1010*	Introduction Physical Geography
GenEd: WY	POLS 1000*	American Wyoming Government
		Semester Credits 16
2ND SEMESTER		
	HIST 1120*^	Western Civilization II (Spring Only) 3
	HIST 1251*	Wyoming History
	OR	
	HIST 2290*^	History of North American Indians (Fall Only)
	HIST/WMST 2389*	History of Women and the American West (Spring Only) 3 Choose from faculty-approved elective courses.^ 3
		Choose from faculty-approved elective courses. [^]
		Semester Credits 12
		Total Credits 60-61

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Students transferring to a college outside of Wyoming are recommended to enroll in HIST 2290.

Program Electives – History students are required to complete 12-15 program approved elective courses. Electives should be a balance of different disciplines and can come from the following course prefixes:

AGRI, ACCT, AMST, ANTH, ART, ASTR, BADM, BUSN, BIOL, CO/M, CHEM, CMAP, INET, COSC, CRMJ, ECON, EDEX, EDST, EDFD, EDUC, ENGL, ES, GEOG, GEOL, HIST, HUMN, IST, ITEC, MATH, MGT, MKT, MMMM, MOLB, MUSC, PHIL, PHYS, POLS, PSYC, RELI, THEA, SOC, SPAN, FREN, JAPN, ZOO

Teaching History Emphasis – If a student intends to teach history as a career goal, the student should meet with the faculty advisors in both History and Education. The electives below indicate suggested electives for a traditional History student who is pursuing only a History degree.

HIST – LCCC offers a variety of History courses that articulate to universities that students can take at the 1000 and 2000 level.

Choose from approved third-year foreign language courses.

AMST 2010, Introduction to American Studies (fall only) OR AMST 2110, Cultural Diversity in America (spring only)

Other Information

History students need 8 hours in a single foreign language. Sign language does not meet this requirement. History students considering a bachelor's degree in History should consider a third semester of foreign language.

History – Digital History Concentration

Associate of Arts

The Digital History Concentration provides students with a variety of new media tools to communicate historical information and interpretation. Students learn techniques of web design, data processing, and utilizing geographic information systems to build the skills necessary to work in the fields of Public History and Museum Studies.

First Year

1ST SEMESTER	COURSE HIST 1211*	TITLE CREDITS U.S. to 1865
GenEd: CA	11101 1211	Choose from approved first-year foreign language courses
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	English I: Composition
GenEd: QR	MATH 1000*+	Integrated Problem Solving Quantway II
	OR	
GenEd: QR	MATH 1400*+	College Algebra 3
		Semester Credits 16
2ND SEMESTER		
	CMAP 1815	Database Applications
	HIST 1110	Western Civilization I (Spring Only)
		Choose from approved second-year foreign language courses 4
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: STEM	COSC 1200*	Computer Information Systems
		Semester Credits 16

Second Year

1ST SEMESTER

		Total Credits	63
		Semester Credits	15
	GEOG 1220*	Introduction to Geospatial Technology	
	MMMM 2326	Interactive Media Design (Spring Only)	
	HIST 1221*	U.S. from 1865	3
	HIST 1120*	Western Civilization II (Spring Only)	
2ND SEMESTER	INET 2620*	Designing Effective Web Sites	3
		Semester Credits	16
GenEd: WY	POLS 1000*	American Wyoming Government	3
		GEOG 1010 recommended.	4
GenEd: LAB		Choose from approved Lab Science courses.	
GenEd: AA		Choose from approved Aesthetic Analysis courses	3
	HIST/WMST 2389*	Women of the American West (Spring Only)	3
	OR)
	OR HIST 2290*^	History of North American Indians (Fall Only)	3
	HIST 1251*	Wyoming History	3
	INET 1580*	Web Page Authoring	3

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Students transferring to a college outside of Wyoming are recommended to enroll in HIST 2290.

Other Information

History students need 8 hours in a single foreign language. Sign language does not meet this requirement. History students considering a bachelor's degree in History should consider a third semester of foreign language.

History – Religious Studies Concentration

Associate of Arts

The Religious Studies Concentration provides students with the opportunity to take a range of courses in the academic study of religions. Religious studies courses serve not only as core courses within the History Associate of Arts degree programs, but also may be applied toward meeting social sciences and humanities general education requirements.

First Year

IST SEMESTER		TITLECREDITSNew Testament Survey (Fall Only)3
GenEd: CA		Choose from approved first-year foreign language courses
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	English I: Composition
GenEd: QR	MATH 1000*+	Integrated Problem Solving Quantway II
	OR	
GenEd: QR	MATH 1400*+	College Algebra 3
		Semester Credits 16
2ND SEMESTER		
	HIST 1110	Western Civilization I (Spring Only)
	HIST/RELI 2320	History of Islam
		Choose from approved second-year foreign language courses 4
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: STEM		Choose from approved STEM courses
		Semester Credits 16-17

Second Year IST SEMESTER

		Choose from faculty-approved elective courses.	3
	HIST/RELI 2225*	History of Christianity (Fall Only)	
GenEd: AA		Choose from approved Aesthetic Analysis courses	3
GenEd: LAB		Choose from approved Lab Science courses.	
		GEOG 1010 recommended.	
GenEd: WY	HIST 1211*	U.S. to 1865	3
	OR		
GenEd: WY	HIST 1221*	U.S. from 1865	3
	OR		
GenEd: WY	HIST 1251*	Wyoming History	3
		Semester Credits	16
2ND SEMESTER			
	HIST 1120*	Western Civilization II (Spring Only)	3
	HIST/RELI 2080*	Holocaust	3
	PHIL 2311*	Introduction to Religion	
		Choose from faculty-approved elective courses.	3
		Semester Credits	12
		Total Credits 60	0-61

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Other Information

History students need 8 hours in a single foreign language. Sign language does not meet this requirement. History students considering a bachelor's degree in History should consider a third semester of foreign language.

Homeland Security

Associate of Science

Homeland Security is about protecting people, property, and infrastructure from natural and man-made disasters. This vast field ranges from first responders to private companies to government agencies, all of which need educated professionals to help anticipate, prevent, and respond to crises. The Homeland Security Associate of Science degree is designed for students wishing to enter the workforce. All courses are offered online and include a FEMA Professional Development Series certificate.

First Year

1ST SEMESTER	COURSE HSEC 1000 HSEC 1001*	TITLE CREDITS Homeland Security: A Global Impact. 3 School Sefety 3
GenEd: CS	COLS 1000	School Safety
GenEd: WY	ECON 1200*	Economics, Law and Government
GenEd: CW	ENGL 1010*+	English I: Composition
		Semester Credits 15
2ND SEMESTER		
	BADM 1020*	Business Communication
	HSEC 2015*	Critical Infrastructures
GenEd: CV	HESC 1025* CO/M 2010*	Emergency Management
GenEd: OR	MATH 1400+	Public Speaking
Geneu: QK	OR HIGHER	
	OKINGHER	Semester Credits 15
Second Year		
	HSEC 2025*	Terrorism
	HSEC 1003*	Homeland Security and First Responders
	GEOG 1220	Introduction to Geospatial Technology
GenEd: CA GenEd: LAB	CHEM 1000*	Choose from approved Cultural Awareness courses
		Introductory Chemistry
2ND SEMESTER		
	HSEC 2001*	Legal, Policy, and Privacy Issues
	HSEC/CRMJ 2004*	Homeland Security and Law Enforcement
	HSEC 2010	Cybersecurity
GenEd: AA	CT M 0070*	Choose from approved Aesthetic Analysis courses
GenEd: STEM	STAT 2070*	Introductory Statistics for the Social Sciences
		Total Credits 62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Homeland Security

Credit Diploma

Homeland Security is about protecting people, property, and infrastructure from natural and man-made disasters. This vast field ranges from first responders to private companies to government agencies, all of which need educated professionals to help anticipate, prevent, and respond to crises. The Homeland Security credit diploma is designed for professionals wishing to continue their education in this field. All courses are offered online and include a FEMA Professional Development Series certificate.

First Year

IST SEMESTER	COURSE HSEC 1000	TITLECREDITSHomeland Security: A Global Impact.3
	HSEC 1001*	School Safety
	HSEC 2025*	Terrorism
	GEOG 1220	Introduction to Geospatial Technology
2ND SEMESTER		Semester Creatis 12
	HSEC 2015*	Critical Infrastructure
	HSEC 1025*	Emergency Management
	HSEC 2001*	Legal, Policy, and Privacy Issues
	HSEC 2010*	Cybersecurity
	HSEC 1003*	Homeland Security and First Responders
	OR	
	HSEC 2004*	Homeland Security and Law Enforcement
		Semester Credits 15
		Total Credits 27

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Human Services

Associate of Arts

Human Services is an interdisciplinary field that prepares students for entry level work in the helping professions and transfer opportunities to pursue higher education degrees. The human services professional assists individuals, groups and families help themselves by support, providing resources and teaching skills. They work with client populations that include: mentally ill, developmentally disabled, elderly, persons living with HIV/AIDS and other chronic health conditions, inmates, adolescents, foster families, people with addictions, veterans, the homeless and adolescents and families.

Students participate in classroom instruction and community-based internship experiences with a local human services provider. Human services professionals work in residential, institutional, community settings and local government providing direct services such as organizing activities, leading a group or providing case management services. Competencies necessary for human service workers include: understanding human systems and their interaction; understanding conditions that promote or limit healthy functioning; identifying and selecting interventions that promote growth and goal attainment; skills in planning, implementation and evaluation; and interpersonal communication, time management and organizational skills.

First Year

FALL SEMESTER	COURSE	TITLE CREDITS
	HMSV 1010*	Orientation to Human Services
	HMSV 1110*	Ethics for Helping Professions
GenEd: AA		Choose from approved Aesthetic Analysis courses
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	English I: Composition
		English I: Composition
SPRING SEMES	TER	
	CNSL 2300*	Counseling Skills for Helping Professionals
	HMSV 1060*	Case Management
GenEd: CA	EDST 2450*	Human Life Span Development
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: QR	MATH 1010+	Problem Solving
	OR HIGHER, OR	
GenEd: QR	STAT 2060*	Integrated Statistics Statway II
	OR	
GenEd: QR	STAT 2070*	Introductory Statistics for the Social Sciences
		Semester Creaits 15-16
Second Year	~	
FALL SEMESTER	K HMSV 1200*	Field Function and in Ulumon Complete L
	HMSV 1200* HMSV 2030*	Field Experiences in Human Services I 3 Behavioral Health and Wellness 3
	SOWK 2000*	Introduction to Social Work
GenEd: LAB	BIOL 1003	Current Issues in Biology
Geneu: LAD	OR	
GenEd: LAB	ANTH 1100	Introduction to Biological Anthropology
General Ene		Choose from approved ADDN courses
		Semester Credits 15

SPRING SEMESTER

STER	
HMSV 1005*	Group Process
HMSV 2110*	Field Experience in Human Services II.
PSYC 1000*	General Psychology
POLS 1000*	American and Wyoming Government
MATH 1010+	Problem Solving
OR	Choose from approved STEM courses
	Semester Credits 16-17
	HMSV 1005* HMSV 2110* PSYC 1000* POLS 1000* MATH 1010+

Total Credits 61-63

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Human Services – Addictionology Concentration

Associate of Arts

First Year

The Human Services – Addictionology Concentration equips students in the helping professions as well as working professionals with a knowledge of the addiction disorders. This will greatly assist members of law enforcement, teachers, health care workers, corrections and social services workers, among others, in performing their jobs in a more comprehensive manner. Students are introduced to basic concepts related to chemical dependency, it's assessment, treatment and prevention. Students are prepared for a variety of positions within the addiction field through classroom instruction and a community based field experience with a local addiction services provider. This degree concentration covers the content areas that are required for the CAPA certification issued by the State of Wyoming. Certified addiction practitioner assistants (CAPA) in Wyoming work under supervision of licensed professionals in private and public sector organizations to provide assessment, education, and treatment services to clients with alcohol, drug, and other addictions.

First year		
FALL SEMESTE		TITLE CREDITS
	ADDN 1000*	Introduction to Addiction Studies
	HMSV 1110*	Ethics for Helping Professions
GenEd: AA	001 0 1000	Choose from approved Aesthetic Analysis courses
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	English I: Composition
SPRING SEMES	TED	Semester Credits 15
SPRING SEMIES	CNSL 2300*	Counseling Skills for Helping Professionals
	HMSV 1060*	Case Management
GenEd: CA	EDST 2450*	Human Life Span Development 3
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: QR	MATH 1010+	Problem Solving
denied. art	OR HIGHER, OR	
GenEd: OR	STAT 2060*	Integrated Statistics Statway II
	OR	
GenEd: QR	STAT 2070*	Introductory Statistics for the Social Sciences
		Semester Credits 15-16
Second Yea	r	
FALL SEMESTE	R	
	ADDN 1015*	Relapse Prevention
	ADDN 1016*	Physiological Actions of Drug and Alcohol Abuse
	ADDN 2010*	Addictions Assessment and Motivational Interviewing
	HMSV 2030*	Behavioral Health and Wellness
GenEd: LAB	BIOL 1003	Current Issues in Biology 4
	OR	
GenEd: LAB	ANTH 1100	Introduction to Biological Anthropology
		Choose from approved HMSV courses
		Semester Credits 16
SPRING SEMES		
	ADDN 2020* ADDN 2970*	Co-occurring Mental Health Disorders
	HMSV 1005*	Field Experience in Addictionology 2 Croup Process 2
GenEd: WY	POLS 1000*	Group Process
GenEd: WY GenEd: STEM	MATH 1010+	Problem Solving
Geneu: STEM	OR	Choose from approved STEM courses
	UK	Choose from elective courses.
		Semester Credits 14-17
		Total Credits 60-64
* 101:	. 1 .	the Oberlah Course Description of the state of the state of the

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Industrial Maintenance

Credit Diploma

The Industrial Maintenance program is designed for students who want to gain valuable industry knowledge and also want to pursue a basic academic foundation. Students gain knowledge and skills in fluid dynamics, mechanical and electrical topics; all of which are combined to provide the groundwork for direct industry employment. This program prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as pumps, motors, conveyor systems, production machinery, refinery, and pipeline-distribution systems.

First Year

FALL SEMESTER COURSE	TITLE	CREDITS
IST 1520	Introduction to Industrial Safety	
IST 1610*	Fluid Power	
IST 1611	Fluid Power Circuits	
IST 1660*	Mechanical Drives	
IST 1661	Mechanical Drive Assemblies.	
IST 1710*	DC Electricity	
IST 1711	DC Electrical Circuits	
IST 1712*	AC Electricity	
IST 1713	AC Electrical Circuits	
	-	Semester Credits 13
SPRING SEMESTER		
HVAC 1600	Mechanical Piping Systems	
IST 1770*	Motor Controls	
IST 1771*	Motor Control Circuits	
IST 1780*	Electric Motors	
IST 1781*	Electric Motor Circuits	
IST 1810*	Programmable Logic Controllers	
IST 1811	PLC Circuits I	<u>1</u>
	-	Semester Credits 12
	=	Total Credits 25

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Interdisciplinary Liberal Arts

Associate of Arts

The Interdisciplinary Liberal Arts program introduces students to the many disciplines within arts and humanities. Students complete comprehensive foundation courses and then have the choice to narrow their focus within a specific area or retain breadth across the disciplines, depending upon career goals within the liberal and fine arts. Students intending to graduate and continue to the university level will work closely with an advisor to tailor their program for the transfer process.

First Year

1ST SEMESTER	COURSE	TITLE	CREDITS
	MMMM 1000* OR	Introduction to Mass Media	3
	MUSC 1000* FREN 1010	Introduction to Music	
	OR	First Year French I	4
	SPAN 1010	First Year Spanish I	4
GenEd: CS GenEd: CW	COLS 1000 ENGL 1010*+	Introduction to College Success: First-Year Seminar English I: Composition	
	of the following cours	ses:	
	ART 1050	Beginning Drawing	
	ART 2410 MMMM 2400	Ceramics I Introduction to Photography	
	MMMM 1370	Publications Production I	
	MMMM 1371	Multimedia Productions I.	
	THEA 1100*	Beginning Acting (Fall Only)	3
	THEA 2000	Theatre Production	3
	THEA 2160	Introduction to Stage Make-Up (Spring Only)	3
2ND SEMESTER	•	Semester Credi	ts 16
		Choose from ART, ENGL, MMMM, MUSC or	
		THEA Aesthetic Analysis approved courses	3
	FREN 1020*	First Year French II	4
	OR SPAN 1020*	First Year Spanish II.	1
GenEd: CV	CO/M 2010*	Public Speaking.	
GenEd: QR	MATH 1010+	Problem Solving	
	OR		
GenEd: QR	MATH 1400	College Algebra	3
Care Ed WW	OR HIGHER	U.S. to 1865	2
GenEd: WY	HIST 1211* OR	U.S. to 1807	3
GenEd: WY	HIST 1221*	U.S. from 1865	3
		Semester Credi	ts 16
Second Year			
IST SEMESTER			
101 OLMEOTER	PHIL 1000*	Introduction to Philosophy	3
	THEA 1000*	Introduction to Theater.	3
GenEd: LAB		Choose from approved Lab Science courses.	4
GenEd: AA	ART 2010*	Art History I	3
GenEd: AA	OR ART 2020*	Art History II.	2
GenEd: AA GenEd: CA	HUMN 1010*	Introductory Humanities I	
defied. Ch	OR		
GenEd: CA	HUMN 1020*	Introductory Humanities II	<u>3</u>
2ND SEMESTER	,	Semester Credi	ts 16
2ND GENIEGIEK		Choose from 2000-level ART, CO/M, ENGL, FREN, HUMN, JAPN	J.
		MMMM, MUSC, PHIL, SPAN, or THEA courses.	
		Choose from 2000-level ART, CO/M, ENGL, FREN, HUMN, JAPN	
		MMMM, MUSC, PHIL, SPAN, or THEA courses.	3
		Choose from 2000-level ART, CO/M, ENGL, FREN, HUMN, JAPN	۱,

GenEd: STEM

Total Credits 60-61

Semester Credits 12-13

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Choose from approved STEM courses.

MMMM, MUSC, PHIL, SPAN, or THEA courses.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

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3-4

Interdisciplinary Liberal Arts – Theatre Concentration

Associate of Arts

The Interdisciplinary Liberal Arts – Theatre Concentration introduces students to the disciplines within arts and humanities with a focus on theatre, language, and humanities. Students complete comprehensive foundation theatre, language, and humanities courses, preparing them for University transfer or a career with the theatre arts programs. Students intending to graduate and continue to the university level will work closely with an advisor to tailor their program for the transfer process.

First Year

IST SEMESTER GenEd: CS GenEd: CW GenEd: QR	COURSE THEA 1000* THEA 1100* THEA 2000 COLS 1000 ENGL 1010*+ MATH 1010+ OR MATH 1400*+	TITLECREDITSIntroduction to Theatre.3Beginning Acting (Fall Only)3Theatre Production3Introduction to College Success: First-Year Seminar3English I: Composition3Problem Solving3College Algebra3
		Semester Credits 18
2ND SEMESTER GenEd: AA GenEd CA	THEA 2000 THEA 2100 ANTH 1200 FREN 1010 OR	Theatre Production3Acting II (Spring Only)3Introduction to Cultural Anthropology3First Year French I4
GenEd: STEM	SPAN 1010	First Year Spanish I 4 Choose from approved STEM courses. 3-4 Semester Credits 16-17
Second Year		
1ST SEMESTER		
	THEA 2000 THEA 2010 HUMN 1010* OR	Theatre Production 3 Backgrounds of Drama I (Fall Only) 3 Introductory Humanities I 3
GenEd: CV GenEd: WY	HUMN 1020* CO/M 2010* HIST 1211* OR	Introductory Humanities II3Public Speaking3U.S. to 18653
GenEd: WY	HIST 1221*	U.S. from 1865
2ND SEMESTER		Semester Credits 15
GenEd: LAB	THEA 2000 THEA 2020 THEA 2160	Theatre Production 3 Backgrounds of Drama II (Spring Only) 3 Introduction to Stage Make-Up (Spring Only) 3 Choose from approved Lab Science courses 4 Semester Credits 13 Total Credits 62-63

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Mass Media

Associate of Arts

The terms "journalism" and "mass communications" are umbrellas that span many career fields and interests. Students taking mass media classes often combine majors or minors in other fields to expand their career possibilities. Students are encouraged to take a broad base of general liberal arts courses that blend with the fundamental technical courses of media writing, editing, photography, broadcasting, and desktop publishing.

Laramie County Community College's mass media curriculum leads to an Associate of Arts degree and provides the basic requirements for a variety of specialized areas offered at four-year institutions. Students are encouraged to experiment in both print and broadcast journalism. Print journalism provides a strong background in reporting and newswriting, desktop publishing, and photography using the latest equipment. The campus newspaper, Wingspan, and literary-arts magazine, High Plains Register are produced entirely on campus by students, using their own fully equipped desktop publishing computer lab. For additional experience, college cooperative work experience credit is offered for internships with local media outlets, advertising/public relations firms, nonprofit organizations, and government agencies.

Nonmajors can benefit from journalism classes, especially Introduction to Mass Media, Photography, Desktop Publishing, and Publications Production.

Because of the numerous directions students can take in the field of mass communications, students are urged to work closely with their advisor in outlining a course of study that will meet their needs in obtaining a job or in transferring to a four-year institution.

First Year		
IST SEMESTER	COURSE MMMM 1000 MMMM 1111	TITLECREDITSIntroduction to Mass Media3Journalistic Writing (Fall Only)3
GenEd: CS GenEd: CW GenEd: QR	COLS 1000 ENGL 1010*+ MATH 1010+ OR	Introduction to College Success: First-Year Seminar3English I: Composition3Problem Solving3
	MATH 1400+ OR HIGHER	College Algebra
2ND SEMESTER		Semester Creatis 15
GenEd: CA	MMMM 1370 MMMM 2100* MMMM 2400	Publications Production I 3 Reporting and Newswriting (Spring Only) 3 Introduction to Photography 3 Choose from approved Cultural Awareness courses 3
GenEd: CV	CO/M 2010*	Public Speaking
Second Year	1	
1ST SEMESTER	MMMM 1375*	Publications Production II
GenEd: AA GenEd: LAB GenEd: WY	MMMM 2310	Desktop Publishing (Fall Only) 3 Choose from approved Aesthetic Analysis courses. 3 Choose from approved Lab Science courses. 4 Choose from approved U.S./Wyoming Constitution courses. 3 Semester Credits 16
2ND SEMESTER		Semester Credits 16
	MMMM 2320* MMMM 2408	Advanced Desktop Publishing (Spring Only) 3 Digital Photography 3 Choose from faculty-approved MMMM or INET elective courses.^ 3 Choose from faculty-approved elective courses. 1-3
GenEd: STEM	STAT 2070*	Introductory Statistics for the Social Sciences
		Total Credits 60-62
* m 1 : 1	. 1	

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Students must choose from a faculty-approved elective course in the areas of MMMM or INET. If choosing INET, the course must be INET 1580 or higher.

Mass Media – Multimedia Concentration

Associate of Arts

Students may select to concentrate on courses in the field of multimedia. Careers in media now demand that employees have a firm grasp of multiple technologies. The multimedia program leads to an Associate of Arts degree and prepares students for these demands.

The multimedia degree will also give students a foundation to prepare them for career opportunities in electronic and computer communications including television and film production; World Wide Web design, production, and advertising; entertainment software production; news media publishing; computer-based training; advertising; 3-D animation; interactive media; desktop publishing; graphic design; and commercial art.

First Year		
1ST SEMESTER	COURSE MMMM 1000	TITLE CREDITS Introduction to Mass Media 3
1	MMMM 1111*	Journalistic Writing (Fall Only)
GenEd: CS GenEd: CW	COLS 1000 ENGL 1010*+	Introduction to College Success: First-Year Seminar
GenEd: QR	MATH 1010+	Problem Solving
	OR MATH 1400+	College Algebra
	OR HIGHER	
2ND SEMESTER		Semester Credits 15
	MMMM 1371	Multimedia Productions I
	MMMM 2222 MMMM 2400	Desktop Audio/Video Production. 3 Introduction to Photography 3
GenEd: CV	CO/M 2010*	Public Speaking 3
GenEd: LAB		Choose from approved Lab Science courses
Second Year		
1ST SEMESTER		
151 SEMIESTER	MMMM 2310	Desktop Publishing (Fall Only)
GenEd: WY	MMMM 2325*	Computer Graphics (Fall Only)
GenEd: WY GenEd: AA		Choose from approved U.S./Wyoming Constitution courses
		ART 1110 recommended
GenEd: STEM	STAT 2070*	Introductory Statistics for the Social Sciences
2ND SEMESTER		
	MMMM 2320* MMMM 2326	Advanced Desktop Publishing (Spring Only) 3 Interactive Media Design (Spring Only) 3
	MMMM 2408	Digital Photography
GenEd: CA		Choose from faculty-approved MMMM or INET elective courses.^ 3 Choose from approved Cultural Awareness courses
Geneu: CA		Semester Credits 15
		Total Credits 62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Students must choose from a faculty approved-elective course in the areas of MMMM or INET. If choosing INET, the course must be INET 1580 or higher.

Mathematics

Associate of Science

Knowledge of mathematics is essential for a successful career in nearly all fields of endeavor and for an appreciation of our surroundings. The mathematics courses offered meet the needs of students in every division of the college. Students who complete an Associate of Science degree in Mathematics will demonstrate knowledge and skills necessary for mathematics majors and will be prepared to transfer to a four-year institution.

First Year

i not i cui		
1ST SEMESTER COURSE	E TITLE	CREDITS
GenEd: CA		oproved Cultural Awareness courses
GenEd: CS COLS 10	00 Introduction to	College Success: First-Year Seminar
GenEd: CW ENGL 10		position
GenEd: QR MATH 22	200*+ Calculus I	
		Semester Credits 13
2ND SEMESTER		
COSC 10		Computer Science
MATH 22		
GenEd: CV CO/M 20		g
GenEd: STEM STAT 201	.0* Statistical Con	cepts – Business
OR OTHER CONTRACT		
GenEd: STEM STAT 205	Fundamentals	of Statistics
GenEd: STEM STAT 207		atistics fronthe Consid Colon and
GenEd: STEM STAT 207	10* Introductory St	atistics for the Social Sciences
		Semester Creaits 15
Second Year		
IST SEMESTER MATH 22		
MATH 22 MATH 22		
MATH 22		ear Algebra
GenEd: WY		
GenEd: LAB PHYS 13		pproved U.S./Wyoming Constitution courses
OR	to college Physics	514
GenEd: LAB PHYS 13	20* College Physics	
dened. EAD TITIOTS	20 Conege i hysica	SII
2ND SEMESTER		Semester creation 10
MATH 23	810* Applied Differe	ntial Equations
MATH 28		lajor Seminar
		oproved elective course
		oproved Lab Science courses
GenEd: AA	Choose from a	pproved Aesthetic Analysis c <u>ourses</u>
		Semester Credits 16
		Total Credits 60
		Total Credits 60

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Music

Associate of Arts

Upon completion of the major in music, students will be prepared for careers in performance, school or studio teaching, music business, music theory and composition, and/or successful transfer to four-year institutions. Courses lead to an Associate of Arts degree which may be applied to various bachelor's degree programs in music. Many courses and ensembles are also available to the non-music major. Within the music program, students will have the opportunity to study and perform music from a variety of styles throughout history and across multiple cultures. Students seeking to complete a major in music, or who are interested in music courses, should seek the advice of a music faculty member in addition to their assigned college advisor.

First Year

i not i cui		
FALL SEMEST	ER COURSE	TITLE CREDITS
	MUSC 0200*	Convocation0
	MUSC 1030	Written Theory I
	MUSC 1035	Aural Theory I
	MUSC 1051*^	Applied Music Instruction I
	MUSC 1051*^	Applied Music Instruction I
	MUSC 1290*	Elementary Class Piano I
	MUSC 1380*	Wind Symphony
	OR	
	MUSC 1390*	Jazz Ensemble
	OR	
	MUSC 1400	Collegiate Chorale
	OR	
	MUSC 1480*	String Ensemble
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	English I: Composition 3
deniza. en	211021010	English I: Composition
SPRING SEME	ESTER	
	MUSC 0200*	Convocation0
	MUSC 1040*	Written Theory II
	MUSC 1045*	Aural Theory II
	MUSC 1052*^	Applied Music Instruction II
	MUSC 1052*^	Applied Music Instruction II
	MUSC 1295*	Elementary Class Piano II
	MUSC 1380*	Wind Symphony
	OR	
	MUSC 1390*	Jazz Ensemble
	OR	
	MUSC 1400	Collegiate Chorale
	OR	
	MUSC 1480*	String Ensemble
GenEd: OR	11000 1400	Choose from approved Quantitative Reasoning courses
GenEd: CV	CO/M 2010*	Public Speaking
Genilla. Cv	20/14/2010	Formatter Credita 14 15

Semester Credits 14-15

Second Year FALL SEMESTER

GenEd: AA

GenEd: STEM

MUSC 0200*	Convocation0
MUSC 2030*	Written Theory III
MUSC 2035*	Aural Theory III
MUSC 2071*^	Applied Music Instruction III
MUSC 2071*^	Applied Music Instruction III
MUSC 2290*	Elementary Class Piano III
MUSC 1380*	Wind Symphony
OR	
MUSC 1390*	Jazz Ensemble
OR	
MUSC 1400	Collegiate Chorale
OR	
MUSC 1480*	String Ensemble
MUSC 2050	Music History Survey I
	Choose from approved STEM courses. MUSC 1023 recommended 3-4
	Semester Credits 14-15

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SPRING SEMESTER

	MUSC 0200*	Convocation		0
	MUSC 2040*	Written Theory IV		
	MUSC 2045*	Aural Theory IV		
	MUSC 2072*^	Applied Music Instruction IV		
	MUSC 2072*^	Applied Music Instruction IV		
	MUSC 2295*	Elementary Class Piano IV		
	MUSC 2395	Piano Proficiency.		
	MUSC 1380*	Wind Symphony		
	OR	5 x 5		
	MUSC 1390*	Jazz Ensemble		1
	OR			
	MUSC 1400	Collegiate Chorale		1
	OR	0		
	MUSC 1480*	String Ensemble		1
GenEd: CA	MUSC 2055	Music History Survey II		
GenEd: LAB		Choose from approved Lab Science courses.		
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses		
		Semester Credits		8
		Total Credits	60-6	2

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

MUSC 1051, MUSC 1052, MUSC 2071 and MUSC 2072 must be taken two times in a semester (within the same section).

Other Information

MUSC courses may be taken beyond the minimum program requirements and are generally accepted at transfer institutions. See a full list in the Course Descriptions section.

Music – Instrumental Education Concentration

Associate of Arts

Upon completion of the Instrumental Education Concentration in music, students will be prepared for careers in school or studio teaching and/or successful transfer to four-year institutions. Courses lead to an Associate of Arts degree which may be applied to a bachelor's degree program in Music Education. Many courses and ensembles are also available to the non-music major. Within the music program, students will have the opportunity to study and perform music from a variety of styles throughout history and across multiple cultures. Students seeking to complete a major in music, or who are interested in music courses, should seek the advice of a music faculty member in addition to their assigned college advisor.

First Year

FALL SEMEST	ER COURSE	TITLE CRE	DITS
	MUSC 0200*	Convocation	0
	MUSC 1030	Written Theory I	
	MUSC 1035	Aural Theory I.	
	MUSC 1051*	Applied Music Instruction I	1
	MUSC 1290*	Elementary Class Piano I	1
	MUSC 1380*	Wind Symphony	1
	OR	5 1 5	
	MUSC 1390*	Jazz Ensemble	1
	OR		
	MUSC 1480*	String Ensemble	1
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar	
GenEd: CW	ENGL 1010*+	English I: Composition	
		Semester Credits	13
SPRING SEME	STER		
	MUSC 0200*	Convocation	0
	MUSC 1025	Introduction to Music Education	3
	MUSC 1040*	Written Theory II	3
	MUSC 1045*	Aural Theory II	
	MUSC 1052*	Applied Music Instruction II	1
	MUSC 1295*	Elementary Class Piano II	1
	MUSC 1380*	Wind Symphony	1
	OR		
	MUSC 1390*	Jazz Ensemble	1

GenEd: CV GenEd: OR

GenEd: AA

GenEd: STEM

Second Year FALL SEMESTER

OR

MUSC 1480*

CO/M 2010*

2	
MUSC 0200*	Convocation
MUSC 2024	World Music
MUSC 2030*	Written Theory III
MUSC 2035*	Aural Theory III 1
MUSC 2071*	Applied Music Instruction III 1
MUSC 2290*	Elementary Class Piano III
MUSC 1380*	Wind Symphony 1
OR	
MUSC 1390*	Jazz Ensemble
OR	
MUSC 1480*	String Ensemble
MUSC 2050	Music History Survey I
	Choose from approved STEM courses. MUSC 1023 recommended 3-4
	Semester Credits 16-17

String Ensemble 1

Semester Credits 16-17

SPRING SEMESTER

	MUSC 0200*	Convocation
	MUSC 2040*	Written Theory IV
	MUSC 2045*	Aural Theory IV
	MUSC 2072*	Applied Music Instruction IV
	MUSC 2295*	Elementary Class Piano IV
	MUSC 2395	Piano Proficiency0
	MUSC 1380*	Wind Symphony 1
	OR	
	MUSC 1390*	Jazz Ensemble
	OR	
	MUSC 1480*	String Ensemble
GenEd: CA	MUSC 2055	Music History Survey II
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
GenEd: LAB		Choose from approved Lab Science courses
		Semester Credits 17
		Total Credits 62-64

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Other Information

MUSC courses may be taken beyond the minimum program requirements and are generally accepted at transfer institutions. See a full list in the Course Descriptions section.

Music – Instrumental Performance Concentration

Associate of Arts

Upon completion of the Instrumental Performance Concentration in music, students will be prepared for careers in performance, studio teaching, and/or successful transfer to four-year institutions. Courses lead to an Associate of Arts degree which may be applied to a bachelor's degree program in Instrumental Performance. Many courses and ensembles are also available to the non-music major. Within the music program, students will have the opportunity to study and perform music from a variety of styles throughout history and across multiple cultures. Students seeking to complete a major in music, or who are interested in music courses, should seek the advice of a music faculty member in addition to their assigned college advisor.

First Year

FALL SEMESTE	R COURSE MUSC 0200*	TITLECREDITSConvocation0
	MUSC 1030	Written Theory I
	MUSC 1035 MUSC 1051*^	Aural Theory I. 1 Applied Music Instruction I 1
	MUSC 1051*^	Applied Music Instruction I
	MUSC 1290*	Elementary Class Piano I
	MUSC 1380*	Wind Symphony 1
	OR	
	MUSC 1390*	Jazz Ensemble
	OR	
	MUSC 1480*	String Ensemble
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	English I: Composition
SPRING SEMES	TED	Semester Credits 14
SPRING SEMIES	MUSC 0200*	Convocation0
	MUSC 1040*	Written Theory II
	MUSC 1045*	Aural Theory II
	MUSC 1052*^	Applied Music Instruction II
	MUSC 1052*^	Applied Music Instruction II
	MUSC 1295*	Elementary Class Piano II
	MUSC 1380*	Wind Symphony 1
	OR	
	MUSC 1390*	Jazz Ensemble 1
	OR	
	MUSC 1480*	String Ensemble
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: QR		Choose from approved MATH courses.+
		Semester Credits 14-15

Second Year

FALL SEMESTER

	MUSC 0200*	Convocation0
	MUSC 2030*	Written Theory III
	MUSC 2035*	Aural Theory III
	MUSC 2071*^	Applied Music Instruction III 1
	MUSC 2071*^	Applied Music Instruction III 1
	MUSC 2290*	Elementary Class Piano III 1
	MUSC 1380*	Wind Symphony 1
	OR	
	MUSC 1390*	Jazz Ensemble
	OR	
	MUSC 1480*	String Ensemble
GenEd: AA	MUSC 2050	Music History Survey I
GenEd: STEM		Choose from approved STEM courses. MUSC 1023 recommended 3-4
		Semester Credits 14-15

SPRING SEMESTER

	MUSC 0200*	Convocation0
	MUSC 2040*	Written Theory IV
	MUSC 2045*	Aural Theory IV
	MUSC 2072*^	Applied Music Instruction IV 1
	MUSC 2072*^	Applied Music Instruction IV 1
	MUSC 2295*	Elementary Class Piano IV 1
	MUSC 2395	Piano Proficiency0
	MUSC 1380*	Wind Symphony 1
	OR	
	MUSC 1390*	Jazz Ensemble
	OR	
	MUSC 1480*	String Ensemble
GenEd: CA	MUSC 2055	Music History Survey II
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
GenEd: LAB		Choose from approved Lab Science courses
		Semester Credits 18
		Total Credits 60-62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

MUSC 1051, MUSC 1052, MUSC 2071 and MUSC 2072 must be taken two times in a semester (within the same section).

Other Information

MUSC courses may be taken beyond the minimum program requirements and are generally accepted at transfer institutions. See a full list in the Course Descriptions section.

Music – Vocal Education Concentration

Associate of Arts

Upon completion of the Vocal Education Concentration in music, students will be prepared for careers in school or studio teaching and/or successful transfer to four-year institutions. Courses lead to an Associate of Arts degree which may be applied to a bachelor's degree program in Music Education. Many courses and ensembles are also available to the non-music major. Within the music program, students will have the opportunity to study and perform music from a variety of styles throughout history and across multiple cultures. Students seeking to complete a major in music, or who are interested in music courses, should seek the advice of a music faculty member in addition to their assigned college advisor.

First Year

I not i cui		
FALL SEMEST	ER COURSE MUSC 0200* MUSC 1030 MUSC 1035 MUSC 1051* MUSC 1290* MUSC 1400 MUSC 2320 COLS 1000 ENGL 1010*+	TITLECREDITSConvocation0Written Theory I3Aural Theory I1Applied Music Instruction I1Elementary Class Piano I1Collegiate Chorale1Diction for Singers I2Introduction to College Success: First-Year Seminar3English I: Composition3
		Semester Credits 15
SPRING SEME	STER	
GenEd: CV GenEd: QR	MUSC 0200* MUSC 1025 MUSC 1040* MUSC 1045* MUSC 1052* MUSC 1295* MUSC 1400 CO/M 2010*	Convocation0Introduction to Music Education3Written Theory II3Aural Theory II1Applied Music Instruction II1Elementary Class Piano II1Collegiate Chorale1Public Speaking3Choose from approved MATH courses.+3Semester Credits16
Second Yea	or.	
FALL SEMEST		
GenEd: AA GenEd: STEM	MUSC 0200* MUSC 1400 MUSC 2024 MUSC 2030* MUSC 2035* MUSC 2071* MUSC 2290* MUSC 2050	Convocation0Collegiate Chorale.1World Music.3Written Theory III.3Aural Theory III.1Applied Music Instruction III1Elementary Class Piano III.1Music History Survey I.3Choose from approved STEM courses. MUSC 1023 recommended.3Semester Credits16
SPRING SEME	STER	

SPRING SEME	SIEK	
	MUSC 0200*	Convocation
	MUSC 1400	Collegiate Chorale
	MUSC 2040*	Written Theory IV
	MUSC 2045*	Aural Theory IV
	MUSC 2072*	Applied Music Instruction IV 1
	MUSC 2295*	Elementary Class Piano IV 1
	MUSC 2395	Piano Proficiency0
GenEd: CA	MUSC 2055	Music History Survey II
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
GenEd: LAB		Choose from approved Lab Science courses
		Semester Credits 17
		Total Credits 64

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Other Information

MUSC courses may be taken beyond the minimum program requirements and are generally accepted at transfer institutions. See a full list in the Course Descriptions section.

Music – Vocal Performance Concentration

Associate of Arts

Upon completion of the Vocal Performance Concentration in music, students will be prepared for careers in performance, studio teaching, and/or successful transfer to four-year institutions. Courses lead to an Associate of Arts degree which may be applied to a bachelor's degree program in Vocal Performance. Many courses and ensembles are also available to the non-music major. Within the music program, students will have the opportunity to study and perform music from a variety of styles throughout history and across multiple cultures. Students seeking to complete a major in music, or who are interested in music courses, should seek the advice of a music faculty member in addition to their assigned college advisor.

First Year

First year		
FALL SEMESTE GenEd: CS GenEd: CW	ER COURSE MUSC 0200* MUSC 1030 MUSC 1035 MUSC 1051*^ MUSC 1051*^ MUSC 1290* MUSC 1400 MUSC 2320 COLS 1000 ENGL 1010*+	TITLECREDITSConvocation0Written Theory I3Aural Theory I1Applied Music Instruction I1Applied Music Instruction I1Elementary Class Piano I1Collegiate Chorale1Diction for Singers I2Introduction to College Success: First-Year Seminar3English I: Composition3
		Semester Credits 16
SPRING SEMES	MUSC 0200* MUSC 1040* MUSC 1045* MUSC 1052*^ MUSC 1052*^ MUSC 1295* MUSC 1295* MUSC 1400 MUSC 2325* CO/M 2010*	Convocation0Written Theory II3Aural Theory II1Applied Music Instruction II1Applied Music Instruction II1Elementary Class Piano II1Collegiate Chorale1Diction for Singers II2Public Speaking3
GenEd: QR	CO/IM 2010	Choose from approved MATH courses.+ <u>.</u>
		Semester Credits 16
Second Yea	ır	
FALL SEMESTE		
GenEd: AA GenEd: STEM	MUSC 0200* MUSC 1400 MUSC 2030* MUSC 2035* MUSC 2071*^ MUSC 2071*^ MUSC 2290* MUSC 2050	Convocation0Collegiate Chorale.1Written Theory III3Aural Theory III1Applied Music Instruction III1Applied Music Instruction III1Elementary Class Piano III1Music History Survey I.3Choose from approved STEM courses. MUSC 1023 recommended.3Semester Credits14
SPRING SEME	STER	Semester Creans 14
GenEd: CA GenEd: WY GenEd: LAB	MUSC 0200* MUSC 1400 MUSC 2040* MUSC 2045* MUSC 2072*^ MUSC 2072*^ MUSC 2295* MUSC 2395 MUSC 2055	Convocation0Collegiate Chorale.1Written Theory IV3Aural Theory IV1Applied Music Instruction IV1Applied Music Instruction IV1Elementary Class Piano IV1Piano Proficiency.0Music History Survey II3Choose from approved U.S./Wyoming Constitution courses.3Choose from approved Lab Science courses.4
		Semester Credits 18
		Total Credits 64

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

MUSC 1051, MUSC 1052, MUSC 2071 and MUSC 2072 must be taken two times in a semester (within the same section).

Other Information

MUSC courses may be taken beyond the minimum program requirements and are generally accepted at transfer institutions. See a full list in the Course Descriptions section.

Natural Science

The Natural Sciences includes a dynamic spectrum of fields. Recent advancements have led to expanded employment opportunities for natural scientists. The successful completion of this program leads to an Associate of Science degree with anticipated transfer to a four-year program. This program provides multiple pathways for flexible transfer including: biology, chemistry, human biology, molecular biology, physiology, wildlife biology and zoology. Students interested in physical sciences, life sciences and post-baccalaureate work may choose to follow a natural science pathway as recommended by your advisor. These pathways would prepare students for careers in a variety of fields including: biochemistry, chemistry, conservation, ecology, microbiology, molecular biology, medicine, pharmacology, physical therapy, veterinary medicine, wildlife, etc.

Natural Science – Biology Concentration

Associate of Science

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year

			i not i cui
CREDITS		COURSE	1ST SEMESTER
ess: First-Year Seminar	1000 Introduction to College Su	COLS 1000	GenEd: CS
		BIOL 1010*	GenEd: LAB
	1 1020* General Chemistry I	CHEM 1020*	GenEd: STEM
		MATH 1400+	GenEd: QR
		OR HIGHER	
Semester Credits 14			
			2ND SEMESTER
	2022* Animal Biology (Spring On	BIOL 2022*	
	4 1030* General Chemistry II	CHEM 1030*	
	1 1405*+ Pre-Calculus Trigonometr	MATH 1405*+	
	. 1010*+ English I: Composition	ENGL 1010*+	GenEd: CW
nly)	1390*^ Scientific Research I (Sprin	BIOL 1390*^	Optional
Semester Credits 14-18			- 1
			a 1
			Second Year
			1ST SEMESTER
Fall Only)	2023* Biology of Plants and Fung	BIOL 2023*	
	I 2200* Calculus I	MATH 2200*	
	1110* General Physics I (Fall Onli	PHYS 1110*	
al Awareness courses.	Choose from approved Cu		GenEd: CA
	ANTH 1200 recommended		
		CO/M 2010*	GenEd: CV
Semester Credits 18			
			2ND SEMESTER
<i>y</i>)		PHYS 1120	
	2050* Fundamentals of Statistics	STAT 2050*	
only)	1390*^ Scientific Research I (Sprin	BIOL 1390*^	Optional
etic Analysis courses	Choose from approved Ae		GenEd: AA
<i>I</i> yoming Constitution courses			GenEd: WY
Semester Credits 14-18			
Total Credits 60-64			

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Students may take BIOL 1390 as an optional course; it need only be taken once. Research experience is recommended for any student planning on attending graduate school or professional school (medical, pharmacy, veterinary, etc.).

Natural Science – Chemistry (BA Track) Concentration

Associate of Science

First Year		
1ST SEMESTER	COURSE	TITLE CREDITS
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
GenEd: LAB	CHEM 1020*	General Chemistry I
GenEd: QR	MATH 2200*	Calculus I
		Semester Credits 14
2ND SEMESTER		Columbus II
	MATH 2205*	Calculus II
GenEd: STEM	CHEM 1030*	General Chemistry II
GenEd: STEM	CO/M 2010*	Public Speaking
GenEd: CW	ENGL 1010*+	English I: Composition
denied. ew	ENGE IOIO I	Semester Credits 18
Second Year	I.	
1ST SEMESTER		
	CHEM 2320*	Organic Chemistry I (Fall Only)
	CHEM 2325*	Organic Chemistry Lab I (Fall Only) 1
	PHYS 1110*	General Physics I (Fall Only) 4
		Choose from faculty-approved elective courses.^
GenEd: AA		Choose from approved Aesthetic Analysis courses
AND CEMECTED		Semester Credits 15
2ND SEMESTER	CHEM 2340*	Organic Chemistry II (Spring Only)
	CHEM 2345*	Organic Chemistry II (Spring Only)
	PHYS 1120*	General Physics II (Spring Only)
	11110 1120	Choose from faculty-approved elective courses.^
GenEd: CA		Choose from approved Cultural Awareness courses.
		ANTH 1200 recommended
		Semester Credits 15
		Total Credits 62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Program Electives – Consult with your faculty advisor for recommendations.

•	ogram Electrico	consult with	r your faculty advisor for recommendation
	BIOL 1010	4 credits	General Biology
	BIOL 1390	4 credits	Scientific Research I
	COSC 1010	4 credits	Introduction to Computer Science
	MATH 2210	4 credits	Calculus III
	STAT 2050	4 credits	Fundamentals of Statistics
	Various other co	urses as recon	nmended by faculty advisor – 3 credits

Natural Science – Chemistry (BS Track) Concentration

Associate of Science

First Year		
1ST SEMESTER	COURSE	TITLE CREDITS
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
GenEd: LAB	CHEM 1020*	General Chemistry I
GenEd: QR	MATH 2200*	Calculus I
2ND SEMESTER		Semester Creatis 14
2ND SEMILSTER	MATH 2205*	Calculus II
	PHYS 1310*	College Physics I (Spring Only)
GenEd: STEM	CHEM 1030*	General Chemistry II
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: CW	ENGL 1010*+	English I: Composition
		Semester Credits 18
Second Year		
1ST SEMESTER		
IOT DEMESTER	CHEM 2320*	Organic Chemistry I (Fall Only)
	CHEM 2325*	Organic Chemistry Lab I (Fall Only)
	MATH 2210*	Calculus III
	PHYS 1320*	College Physics II (Fall Only)
GenEd: AA		Choose from approved Aesthetic Analysis courses
		Semester Credits 15
2ND SEMESTER		
	CHEM 2340* CHEM 2345*	Organic Chemistry II (Spring Only)
	CHEINI 234)	Organic Chemistry Lab II (Spring Only)
		Choose from faculty-approved elective courses. ⁴
GenEd: CA		Choose from approved Cultural Awareness courses.
Genea. en		ANTH 1200 recommended
		Semester Credits 15
		Total Credits 62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Program Electives – Consult with your faculty advisor for recommendations.BIOL 10104 creditsGeneral BiologyBIOL 13904 creditsScientific Research ICOSC 10104 creditsIntroduction to Computer Science

STAT 2050 4 credits Fundamentals of Statistics

Natural Science – Human Biology Concentration

Associate of Science

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year

111001000		
GenEd: CS	COLS 1000	TITLE CREDITS Introduction to College Success: First-Year Seminar 3
GenEd: LAB	BIOL 1010*	General Biology
GenEd: STEM	CHEM 1020*	General Chemistry I
GenEd: QR	MATH 1400+	College Algebra 3
	OR HIGHER	Semester Credits 14
2ND SEMESTER		Semester Creans 14
2ND SEMESTER	BIOL 2022*	Animal Biology (Spring Only)
	MATH 1405*	Pre-Calculus Trigonometry
GenEd: STEM	CHEM 1030*	General Chemistry II
GenEd: CW	ENGL 1010*+	English I- Composition 3
Optional	BIOL 1390*^	Scientific Research I (Spring Only) 4 Semester Credits 14-18
		Semester Credits 14-18
c 1v		
Second Year		
1ST SEMESTER		
	PHYS 1110*	General Physics I (Fall Only) 4
	MATH 2200*	Calculus I
	ZOO 2010*	Anatomy and Physiology I (Fall Only)
GenEd: CV	CO/M 2010*	Public Speaking
		Semester Credits 15
2ND SEMESTER	ZOO 2020*	Anatomy and Physiology II (Spring Only)
	MICR 2240	Medical Microbiology
	OR	Medical Microbiology 4
	STAT 2050*	Fundamentals of Statistics
GenEd: AA	01111 2000	Choose from approved Aesthetic Analysis courses
GenEd: CA		Choose from approved Cultural Awareness courses.
		ANTH 1200 recommended
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
		Semester Credits 17
		Total Credits 60-64

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Students may take BIOL 1390 as an optional course; it need only be taken once. Research experience is recommended for any student planning on attending graduate school or professional school (medical, pharmacy, veterinary, etc.).

Natural Science – Molecular Biology Concentration

Associate of Science

First Year 1st semester		TITLE CREDITS
GenEd: CS GenEd: LAB GenEd: STEM GenEd: QR	COLS 1000 BIOL 1010* CHEM 1020* MATH 2200*	Introduction to College Success: First-Year Seminar 3 General Biology 4 General Chemistry I 4 Calculus I 4 Semester Credits
2ND SEMESTER		Semester Credits 15
GenEd: CV GenEd: STEM GenEd: CW	MICR 2240 CO/M 2010* CHEM 1030* ENGL 1010*+	Medical Microbiology 4 Public Speaking 3 General Chemistry II 4 English I: Composition 3
		Semester Credits 14
Second Year	•	
1ST SEMESTER		
	PHYS 1110* CHEM 2320* CHEM 2325* STAT 2050* OR	General Physics I (Fall Only)4Organic Chemistry I (Fall Only)3Organic Chemistry Lab I (Fall Only)1Fundamentals of Statistics4
	STAT 2070*	Introduction to Statistics for the Social Sciences
GenEd: AA		Choose from approved Aesthetic Analysis courses
2ND SEMESTER		Semester Credits 15
	CHEM 2340* CHEM 2345* PHYS 1120*	Organic Chemistry II (Spring Only) 3 Organic Chemistry Lab II (Spring Only) 1 General Physics II (Spring Only) 4 Choose from approved elective. 3-4
GenEd: CA		Choose from approved Cultural Awareness courses.
GenEd: WY		ANTH 1200 recommended
		Semester Credits 17-18
		Total Credits 61-62

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Natural Science – Physiology Concentration

Associate of Science

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year

IST SEMESTER GenEd: CS GenEd: LAB GenEd: STEM GenEd: QR	COURSE COLS 1000 BIOL 1010* CHEM 1020* MATH 1400+ OR HIGHER	TITLECREDITSIntroduction to College Success: First-Year Seminar3General Biology4General Chemistry I4College Algebra3
	OKHIGHER	Semester Credits 14
2ND SEMESTER		
GenEd: STEM GenEd: CW	BIOL 2022* MATH 1405* CHEM 1030* ENGL 1010*+ BIOL 1390*^	Animal Biology (Spring Only) 4 Pre-Calculus Trigonometry. 3 General Chemistry II 4 English I: Composition 3 Generation 3
Optional	DIOL 1390	Scientific Research I (Spring Only) 4 Semester Credits 14-18
a 1.v.		
Second Year		
1ST SEMESTER	MATH 2200* MICR 2240	Calculus I
GenEd: CA	MICK 2240	Choose from faculty-approved elective courses. [^] 4 Choose from approved Cultural Awareness courses. [^] 4 ANTH 1200 recommended. [^] 3
GenEd: CV	CO/M 2010*	Public Speaking
2ND SEMESTER	1	
GenEd: AA GenEd: WY Optional	STAT 2050* BIOL 1390*^	Fundamentals of Statistics 4 Choose from faculty-approved elective courses.^ 4 Choose from approved Aesthetic Analysis courses. 3 Choose from approved U.S./Wyoming Constitution courses. 3 Scientific Research I (Spring Only) 4 Semester Credits 14-18
		Total Credits 60-64

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Students may take BIOL 1390 as an optional course; it need only be taken once. Research experience is recommended for any student planning on attending graduate school or professional school (medical, pharmacy, veterinary, etc.).

Program Electives - Consult with your faculty advisor for recommendations.

0		5
CHEM 2320	3 credits	Organic Chemistry I
CHEM 2325	1 credit	Organic Chemistry Lab I
CHEM 2340	3 credits	Organic Chemistry II
CHEM 2345	1 credit	Organic Chemistry Lab II
PHYS 1110	4 credits	General Physics I
PHYS 1120	4 credits	General Physics II

Natural Science – Wildlife Biology Concentration

Associate of Science

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year

1ST SEMESTER		TITLE CREDITS
	COLS 1000	Introduction to College Success: First-Year Seminar
	BIOL 1010*	General Biology
	CHEM 1020* MATH 1400+	General Chemistry I
	OR HIGHER	College Algebra 3
		Semester Credits 14
2ND SEMESTER		
	BIOL 2022*	Animal Biology (Spring Only)
	MATH 1405*	Pre-Calculus Trigonometry
	CHEM 1030*	General Chemistry II
GenEd: CW E	ENGL 1010*+	English I: Composition
		Semester creatis 14
Second Year		
1ST SEMESTER		
	BIOL 2023*	Biology of Plants and Fungi (Fall Only)
C	COSC 1200*	Computer Information Systems
Ν	MATH 2200*	Calculus I
	PHYS 1110*	General Physics I (Fall Only)
	DR	
	GEOL 1100*	Physical Geology
	DR AECL 2010*	The Facle sized Web Caile
	CO/M 2010*	The Ecological Web: Soils
denieu. ev e	2011/10/2010	Public Speaking
2ND SEMESTER		
S	STAT 2050*	Fundamentals of Statistics
	200 2450*	Wildlife Management (Spring Only) 3
GenEd: AA		Choose from approved Aesthetic Analysis courses
GenEd: CA		Choose from approved Cultural Awareness courses.
GenEd: WY		ANTH 1200 recommended
Genea: WY		Choose from approved U.S./Wyoming Constitution courses
		Total Credits 62
		iotal credits 02

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Natural Science – Zoology Concentration

Associate of Science

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year

CREDITS	COURSE	1ST SEMESTER
n to College Success: First-Year Seminar	COLS 1000	GenEd: CS
blogy	BIOL 1010*	GenEd: LAB
emistry I	CHEM 1020*	GenEd: STEM
ebra	MATH 1400+	GenEd: QR
	OR HIGHER	
Semester Credits 14		
	2	2ND SEMESTER
logy (Spring Only) 4	BIOL 2022*	
Is Trigonometry	MATH 1405*	
emistry II	CHEM 1030*	GenEd: STEM
omposition	ENGL 1010*+	GenEd: CW
esearch I (Spring Only) 4	BIOL 1390*^	Optional
Semester Credits 14-18		
	_	
		Second Year
		1ST SEMESTER
	MATH 2200*	
crobiology	MICR 2240	
m faculty-approved elective courses.^ 4		
m approved Cultural Awareness courses.		GenEd: CA
recommended		
aking	CO/M 2010*	GenEd: CV
Semester Credits 18		
		2ND SEMESTER
als of Statistics	STAT 2050*	
m faculty-approved elective courses.^ 4		
m approved Aesthetic Analysis courses		GenEd: AA
m approved U.S./Wyoming Constitution courses 3		GenEd: WY
esearch I (Spring Only)	BIOL 1390*^	Optional
Semester Credits 14-18		
Total Credits 60-64		

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Students may take BIOL 1390 as an optional course; it need only be taken once. Research experience is recommended for any student planning on attending graduate school or professional school (medical, pharmacy, veterinary, etc.).

Program Electives - Consult with your faculty advisor for recommendations.

CHEM 2320	3 credits	Organic Chemistry I
CHEM 2325	1 credit	Organic Chemistry Lab I
CHEM 2340	3 credits	Organic Chemistry II
CHEM 2345	1 credit	Organic Chemistry Lab II
PHYS 1110	4 credits	General Physics I
PHYS 1120	4 credits	General Physics II

Nursing

Associate Degree in Nursing (ADN)

This four-semester program (after a semester of prerequisites and acceptance into the program) is part of the statewide nursing curriculum Revolutionizing Nursing Education in Wyoming (ReNEW) which is designed as a baccalaureate curriculum with an ADN benchmark allowing students to sit for the NCLEX-RN (licensure exam) at the completion of the fourth semester. This curriculum allows for students to complete an Associate Degree in Nursing, gain RN licensure and employment, and then to transition seamlessly into the University of Wyoming for their senior year and complete a bachelor's degree.

The curriculum includes a balance of general education and nursing courses that assist students in acquiring the knowledge and skills to function as beginning practitioners of nursing. Students receive classroom instruction and coordinated clinical experience in the nursing care of patients in health care settings under the supervision and guidance of the nursing faculty. Clinical sites are in Cheyenne, Wyoming, and the surrounding region. Applications to the program are available the semester prior to admission and are submitted according to the application, which may be obtained at the website lccc.wy.edu/programs/nursing.

The nursing curriculum at Laramie County Community College is a leveled educational program to facilitate career mobility. The first two semesters provide a foundation for progression in the field of nursing and prepare the student to enter the second level of the nursing curriculum. At this point, after completion of the prerequisites and the first two semesters of the program, a student may choose to take the optional PN Exploration course which will give them the ability to earn a certificate and provide eligibility to take the National Council Licensure Exam (NCLEX-PN). Upon completion of the program, the graduate earns an Associate Degree in Nursing (ADN) and is eligible to take the National Council Licensure Exam (NCLEX-RN).

Program Accreditation: This program is approved by the Wyoming State Board of Nursing and accredited by the Accrediting Commission for Education in Nursing (ACEN).

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate. Graduates from this program who successfully pass the NCLEX-RN are eligible to apply for any RN-BSN program at any offering University. Please note that students planning on dual enrollment with LCCC and the University of Wyoming (UW) must maintain a nursing GPA of 3.0 or higher. Those students planning on transferring to UW once they have received RN licensure must demonstrate a nursing GPA of 2.5 or better. Please contact the UW ReNEW Nursing advisor for individual advising.

Prerequisite courses must be in progress or completed with a grade of "C" or better. Students are encouraged to contact the Nursing program directly for program-specific questions. Current Nursing students should refer to the respective catalog in which they began the Nursing program.

Program

CREDITS	COURSE	PREREQUISITE
ar Seminar 3	COLS 1000®	GenEd: CS
	ZOO 2015^	
	ENGL 1010*+	GenEd: CW
	MATH 1400+	GenEd: QR
	OR HIGHER	
Semester Credits 13		
		1ST SEMESTER
notion	NURS 1100*	
ealth Promotion	NURS 1115*	
· · · <u>· · · · · · · · · · · · · · · · </u>	ZOO 2025*^	
Semester Credits 14	200 202)	
Semester credits 14		2ND SEMESTER
with Chasaia Illason E		2ND SEMIESTER
with Chronic Illness 5	NURS 1200*	
	NURS 1215*	
	PSYC 1000*	
<u></u>	MICR 2240*	
Semester Credits 17		
		OPTIONAL
	NRST 1980*	OT HOIME
Semester Credits 2	NK01 1900	
Semester Credits 2		

3RD SEMESTER NURS 2300* Clinical III: Professional Nursing Care of the Patient with Acute Illness . 5 NURS 2315* Public Speaking GenEd: CV CO/M 2010*^ **Semester Credits** 13 **4TH SEMESTER** NURS 2400* Clinical IV: Professional Nursing Care of NURS 2415* GenEd: WY POLS 1000* OR HIST 1211* GenEd: WY OR HIST 1221* GenEd: WY OR ECON 1200* Economics, Law, and Government. GenEd: WY Semester Credits 13 **Total Credits** 70 With Optional PN Course 72

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

[®] See page 37 of the catalog for exceptions to the COLS 1000 course requirement. Any approved college seminar course will satisfy this requirement.

^ Program Comments

Students should take ZOO 2015 and ZOO 2025. Completion of ZOO 2010 and ZOO 2020 may be accepted however additional prerequisites apply for this option.

Other Information

Additional Program Prerequisites -

Kaplan Entrance exam with a score of 70 overall and a 73 on reading comprehension on the same test (within the last three years).

Demonstrated competency to enter ENGL 1010.

All students admitted to the nursing program are expected to carry their own personal health insurance.

Drug Screening and Criminal Background Checks

Acceptance into the program is conditional based upon satisfactory completion of a criminal background check and drug screen. Instructions for completion will be provided once a student is accepted into the program.

Students will also be subject to random and for cause drug screening throughout the program. Testing positive on the drug screening or evidence of tampering with a specimen will disqualify a student from participation in a clinical assignment and will result in dismissal from the program.

Certain criminal activity, as evidenced by a criminal background check, may also disqualify a student from clinical participation. See School Policy at lccc.wy.edu/academics/divisions/HSW.

Students are advised that the inability to gain clinical education experiences can result in the inability to meet program objectives and outcomes. These circumstances may prevent acceptance into and/or continuance in the program.

Paralegal

Associate of Applied Science

Paralegals or legal assistants are "persons who, although not members of the legal profession, are qualified through education, training, or work experience, who are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the ultimate direction and supervision of an attorney, of specifically delegated substantive legal work, which work, for the most part, requires a sufficient knowledge of legal concepts that, absent that paralegal, the attorney would perform the task." (Definition provided by the American Bar Association.)

As such, paralegals are not allowed to practice law. In Wyoming it is illegal for anyone who is not a licensed attorney to practice law. The practice of law refers to the rendition of services for others that call for the professional judgment of a lawyer. Therefore, nonlawyers may not, at a minimum, represent others in court, draft legal documents for someone, or give someone legal advice.

A paralegal's duties are many and varied depending on the individual's capabilities and the needs of the employer. A person interested in a paralegal career must be a good communicator who is willing and able to accept significant responsibility while assisting an attorney in a modern law practice.

The primary goal of the paralegal program is to provide students with the technical skills and knowledge necessary for them to perform successfully and ethically as paralegals under the supervision of attorneys in a variety of legal settings. Upon completion of the program, graduates will be able to perform legal research in a variety of fields using both traditional and computer-assisted methods; to draft pleadings, discovery and other legal documents, legal correspondence, and legal memoranda; to demonstrate substantive knowledge of at least three areas of practice; to demonstrate an understanding of the ethical rules governing both attorneys and paralegals in the jurisdiction; and to demonstrate the analytical and judgmental abilities necessary for ethical decision-making in a legal environment.

Program objectives include providing students with appropriate general education to meet state statutory requirements and to develop the student's communication, quantitative, analytical, and technological skills; preparing students to perform legal and factual research using traditional and computer-assisted methods; preparing students to draft a variety of legal documents and correspondence; preparing students to effectively interview clients and witnesses; providing students with an understanding of the evolving paralegal field and career opportunities within that field; providing students with the skills needed to assist an attorney with the investigation and litigation process; providing students with an understanding of the legal system and the modern practice of law; and providing students with an understanding of the ethical rules governing the practice of law and the behaviors and judgment necessary to perform paralegal duties in a manner ethically consistent with those rules.

The following program of study is designed to develop the specific skills and abilities required for success in the paralegal career field. Completion of this program leads to the Associate of Applied Science degree.

The paralegal program also offers a certificate. The certificate program is reserved for individuals who have already earned a bachelor's degree in another discipline and now desire to work as a paralegal.

The paralegal program is approved by the American Bar Association (ABA). Majors must be careful to check with the advisor before enrolling for general education courses since some additional course work may be required.

First Year		
FALL SEMESTER		TITLE CREDITS
	LEGL 1500* LEGL 1710*	Introduction to Paralegal Studies (Fall Only)
GenEd: CS	COLS 1000	Legal Research and Writing I (Fall Only)
GenEd: CW	ENGL 1010*+	English I: Composition
GenEd: QR	MATH 1010+	Problem Solving
	OR HIGHER	Ormerster Ore literation
SPRING SEMEST	FP	Semester Credits 15
SI KING SEMESI	LEGL 1720*	Legal Research and Writing II (Spring Only)
	LEGL 2550*	Evidence and Investigation (Spring Only)
		Choose from faculty-approved elective courses. [^]
GenEd: CV	CO/M 2010*^	Public Speaking
GenEd: CV	OR CO/M 1015*^	Foundations of Communication
denieu. ev	OR	
	CO/M 1030*^	Interpersonal Communication
		Semester Credits 12
SUMMER SEMES	STER LEGL 1800*	Low Office Management (Summar Odd Veers)
	OR	Law Office Management (Summer Odd Years)
	LEGL 2830*	Computer Applications in the Law (Summer Even Years)
		Choose from faculty-approved elective courses. [^]
		Semester Credits 6
Second Year		
FALL SEMESTER		
	LEGL 2500*	Civil Procedure and Litigation (Fall Only)
		Choose from faculty-approved elective courses. [^]
		Choose from faculty-approved LEGL elective courses.^
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses.^
		Semester Credits 15
SPRING SEMEST	ER BADM 2010*	Business Law I
	OR	Choose from faculty-approved LEGL elective courses.^
	•	Choose from faculty-approved elective courses. [^]
		Choose from faculty-approved LEGL elective courses. [^]
ConEd LAD		Choose from faculty-approved LEGL elective courses. ⁴
GenEd: LAB		Choose from approved Lab Science courses
		Total Credits 64

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

General education Lab Science courses recommended include POLS 1000, HIST 1211, HIST 1221, or HIST 1251.

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Legal Program Electives – Students must complete 15 credit hours (5 courses) from the following list of courses. Courses are not offered every semester. Consult your faculty advisor for recommendations.

BADM 2010	3 credits	Business Law I
LEGL 1800	3 credits	Law Office Management
LEGL 2560	3 credits	Probate Practices and Procedures
LEGL 2570	3 credits	Torts
LEGL 2610	3 credits	Family Law
LEGL 2630	3 credits	Real Estate and Property Law
LEGL 2650	3 credits	Criminal Law and Procedure
LEGL 2670	3 credits	Constitutional Law
LEGL 2680	3 credits	Administrative Law
LEGL 2830	3 credits	Computer Applications in the Law
LEGL 2990	3-5 credits	Paralegal Internship

Paralegal Program Electives – Students must complete 15 credit hours (5 courses) of approved elective courses. Courses are not offered every semester. Consult your faculty advisor for recommendations. Electives should be a balance of different disciplines; students may choose from the following: ACCT, ANTH, ART, BADM, BUSN, CO/M, COSC, CRMJ, EDUC, ENGL, HIST, HMSV, HUMN, MGT, MKT, PHIL, POLS, PSYC, THEA, SPAN, FREN, or JAPN.

Other Information

Students must begin the paralegal/legal courses in the fall semester to complete the proper course sequencing for this program.

Paralegal

Certificate of Completion

It is the policy of the Paralegal Program at Laramie County Community College that students may transfer no more than six (6) semester hours of legal specialty courses from another institution's program and that program must be approved by the American Bar Association. At this time, LCCC's Paralegal Program does not award legal specialty credit by examination.

First Year

IST SEMESTER	COURSE LEGL 1500* LEGL 1710* BADM 2010*	TITLECREDITSIntroduction to Paralegal Studies (Fall Only).3Legal Research and Writing I (Fall Only).3Business Law I.3Choose from faculty-approved LEGL elective courses.^3
		Semester Credits 12
2ND SEMESTER		
	LEGL 1720* LEGL 2550*	Legal Research and Writing II (Spring Only) 3 Evidence and Investigation (Spring Only) 3 Choose from faculty-approved LEGL elective courses.^ 3 Choose from faculty-approved LEGL elective courses.^ 3 Semester Credits 12
3RD SEMESTER		
	LEGL 2500* LEGL 2990 OR	Civil Procedure and Litigation (Fall Only)

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

^ Program Comments

Legal Program Electives – Students must complete 15 credit hours (5 courses) from the following list of courses. Courses are not offered every semester. Consult your faculty advisor for recommendations.

LEGL 1800	3 credits	Law Office Management
LEGL 2560	3 credits	Probate Practices and Procedures
LEGL 2570	3 credits	Torts
LEGL 2610	3 credits	Family Law
LEGL 2630	3 credits	Real Estate and Property Law
LEGL 2650	3 credits	Criminal Law and Procedure
LEGL 2670	3 credits	Constitutional Law
LEGL 2680	3 credits	Administrative Law
LEGL 2830	3 credits	Computer Applications in the Law
LEGL 2990	3-5 credits	Paralegal Internship

Physical Therapist Assistant

Associate of Applied Science

Physical Therapist Assistants (PTAs) work under the direction of physical therapists to help people of all ages who have health-related conditions that limit their ability to move and perform daily activities. Physical therapist assistants help patients reach their maximum performance and level of functioning while learning to live within the limits of their rehabilitation goals. Physical therapist assistants may assist in the development of treatment plans, treatment documentation, and modification of specific treatments that have been established by the physical therapist.

The Associate of Applied Science degree in the Physical Therapist Assistant professional curriculum is a fivesemester sequence, preceded by a set of prerequisites. Students must maintain a minimum grade of a "C" in each course, in addition to college graduation requirements, to progress and graduate. Upon completion, graduates of the Physical Therapist Assistant program are eligible to apply for the national licensing exam, administered by the Federation of State Boards of Physical Therapy (FSBPT).

Employment opportunities are available in a variety of settings including outpatient physical therapy offices and clinics, hospitals, and skilled nursing facilities.

Program Accreditation: The Physical Therapist Assistant (PTA) curriculum is designed to meet all the accreditation requirements for the Commission on Accreditation in Physical Therapy Education (CAPTE). The PTA program at LCCC is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (APTA), accreditation@apta.org, 703.684.2782

First Year – Prerequisites FALL SEMESTER COURSE TITLE CREDITS HLTK 1200 ZOO 2015^ GenEd: CV CO/M 2010*^ OR CO/M 1015*^ GenEd: CV OR CO/M 1030*^ GenEd: CW ENGL 1010*+ GenEd: QR MATH 1400+ **OR HIGHER** Semester Credits 15 SPRING SEMESTER Pathophysiology2Introduction to Physical Therapist Assistant3 HLTK 2510* PTAT 1600 PTAT 2030 ZOO 2025*^ Human Physiology 4 GenEd: CS COLS 1000^ Semester Credits 16 SUMMER SEMESTER PTAT 1650* Therapeutic Procedures I 4 PTAT 1720* Cardiac Rehabilitation PTAT 1740* 1 Semester Credits Second Year FALL SEMESTER EDST 2450* PTAT 1660* PTAT 1820* PTAT 2970* SPRING SEMESTER PTAT 1800* Specialty Rehabilitation 1 PTAT 1840* PTAT 2971* GenEd: WY Semester Credits 14 **Total Credits** 71

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Students should take ZOO 2015 and ZOO 2025. Completion of ZOO 2010 and ZOO 2020 may be accepted however additional prerequisites apply for this option.

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Some students may qualify for an exemption for COLS 1000 due to prior learning. Information is available on Page 37 of the catalog. See your Academic Advisor for assistance.

Other Information

Health and Physical Requirements

All students admitted to the Physical Therapist Assist program are expected to carry their own personal health insurance.

In the professional courses that are required, as well as in the career field, students need the ability to:

Lift and move patients, equipment, and accessories (up to 50 pounds).

Manipulate treatment equipment and measuring instruments using fine motor skills.

Hear audible cues and warnings from patients and equipment.

Utilize sense of touch in order to provide patient care, palpate anatomical landmarks, position patients, and administer treatments.

Teach patients through use of verbal, tactile, and demonstrative cues.

Utilize interpersonal skills to handle patients with physical or emotional trauma and to interact with other people in the classroom, lab, or clinical setting in a professional manner.

Admissions Process

Due to program accreditation requirements, the program is limited to 20 students a year. Students interested in applying for the program should contact the program director for specific procedures. Students completing program prerequisites may apply in the fall for the upcoming spring semester.

Selection is based on a student's grade point average, prerequisites completed, the date the application was received, and other criteria as noted on program application materials. Final acceptance will be contingent upon successful completion of program prerequisites, a health physical, and background check.

Drug Screening and Criminal Background Checks

LCCC requires drug screens and background checks for all PTA students. At their discretion, clinical sites may require additional drug screening and/or a criminal background check prior to allowing students into the clinical setting. (If required, any associated fees will be the responsibility of the student.) Clinical sites may also require random drug testing and/or drug testing for reasonable cause. Testing positive on the drug screening or evidence of tampering with a specimen will disqualify a student from participation from clinical assignment.

In addition to drug screening, for the safety of patients and health care workers, child abuse clearance and criminal background checks are requires by some agencies prior to a clinical assignment. Certain criminal activity, evidenced by a criminal background check, may also disqualify a student from clinical participation.

Students are advised that the inability to gain clinical education experiences can result in the inability to meet program objectives and outcomes. These circumstances may prevent acceptance into and/or continuance in the program.

Special Scheduling

In addition to lecture and lab classes, students will complete approximately 560 hours of clinical in area health care facilities during the program. Students will be assigned to clinical sites based on need and availability. Students are expected to provide their own housing and transportation to clinical sites, which may be based out of town.

Process Technology

Credit Diploma

The Process Technology program of study is designed for students who want to gain valuable industry skills while pursuing a basic understanding of petrochemical and related industries. Students develop awareness of the work environment and systems used as well as industrial maintenance knowledge and skills. Process Technician/ Operator specific industry topics are combined to provide the groundwork for direct industry employment. Process Technology is an accelerated program designed to be completed in one, 16-week semester.

First Year

1ST SEMESTER	COURSE	TITLE	CREDITS
	IST 1730*	Introduction to Electrical Fundamentals	2
	IST 1830*	Introduction to Mechanical Fundamentals	2
	PTEC 1500*	Introduction to Process Technology	2
	PTEC 1510*	Safety, Health and the Environment	4
	PTEC 1550*	Foundations of Quality	1
	PTEC 1600*	Process Technology I: Equipment	4
	PTEC 1605*	Process Technology II: Systems	4
		Semester Credit	ts 19
		Total Credit	s 19

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Psychology

Associate of Arts

A psychology major pursues either the Associate of Science or the Associate of Arts degree. This major requires the completion of 19 credit hours in psychology in addition to meeting the general education requirements. The course list below is designed to satisfy all requirements for an Associate of Science of the Associate of Arts degree at Laramie County Community College with a major in psychology. Completion of an Associate of Science degree with a major in psychology can prepare students to transfer into the junior year of a Bachelor of Science degree program. Completion of an Associate of Arts degree can prepare students to transfer into the junior year of a Bachelor of Arts degree program. Psychology majors are strongly encouraged to determine the degree requirements of the specific college and program to which they plan to transfer.

First Year		
1ST SEMESTER	COURSE	TITLE CREDITS
	PSYC 1000*	General Psychology
GenEd: AA		Choose from approved Aesthetic Analysis courses
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	English I: Composition
GenEd: CV	CO/M 2010*	Public Speaking
		Semester Credits 15
2ND SEMESTER		
	PSYC 2300*	Developmental Psychology 3
•		Choose from faculty-approved elective courses
GenEd: LAB	BIOL 1003	Current Issues in Biology
0 51775	OR	
GenEd: LAB	BIOL 1010*	General Biology
GenEd: QR	STAT 2070*	Introductory Statistics for the Social Sciences
	OR	
GenEd: QR	MATH 1010+	Problem Solving
	OR	
GenEd: QR	MATH 1400+	College Algebra 3
	OR HIGHER	Comparison Over 144 10-14
		Semester Credits 13-14

Second Year

		Total Credits 60-0	51
			16
GenEd: CA		Choose from approved Cultural Awareness courses	
		Choose from faculty-approved elective courses.	
		Choose from faculty-approved elective courses.	. 3
	PSYC 2090*	Psychology of Religion	. 3
	OR		
	PSYC 2000* PSYC 2380*	Research Psychological Methods	. 4
2ND SEMESTER		Descend Desch de de la desta de	
		Semester Credits	16
GenEd: STEM	STAT 2070*	Introductory Statistics for the Social Scienc <u>es</u>	. 4
	OR		
GenEd: STEM	STAT 2050*	Fundamentals of Statistics.	
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses.	
	PSIC 2210	Drugs and Behavior	
	OR PSYC 2210*	Druce on d Daharian	2
	PSYC 2080*	Psychobiology	. 3
	PSYC 2330*	Psychology of Adjustment	
	OR		~
	PSYC 2340*	Abnormal Psychology	. 3
IST SEMESTER			

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Other Information

Students should see a faculty advisor for recommendations for program electives pertaining specifically to the University of Wyoming.

CNSL 2300 is a recommended program elective for students interested in counseling or therapy tracks.

Psychology

Associate of Science

A psychology major pursues either the Associate of Science or the Associate of Arts degree. This major requires the completion of 19 credit hours in psychology in addition to meeting the general education requirements. The course list below is designed to satisfy all requirements for an Associate of Science of the Associate of Arts degree at Laramie County Community College with a major in psychology. Completion of an Associate of Science degree with a major in psychology can prepare students to transfer into the junior year of a Bachelor of Science degree program. Completion of an Associate of Arts degree can prepare students to transfer into the junior year of a Bachelor of Arts degree program. Psychology majors are strongly encouraged to determine the degree requirements of the specific college and program to which they plan to transfer.

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year			
1ST SEMESTER		TITLE CREDIT	_
0 51.11	PSYC 1000*	General Psychology.	
GenEd: AA	00101000	Choose from approved Aesthetic Analysis courses	
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar	. 3
GenEd: CW	ENGL 1010*+	English I: Composition	. 3
GenEd: CV	CO/M 2010*	Public Speaking Semester Credits	. 3
2ND SEMESTER		Semester Creatis	15
	PSYC 2300*	Developmental Psychology	. 3
		Choose from faculty-approved elective courses	. 3
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses.	
GenEd: LAB	BIOL 1010*	General Biology	
GenEd: QR	MATH 1010+	Problem Solving	
	OR		
GenEd: QR	MATH 1400+	College Algebra	. 3
	OR HIGHER		17
		Semester Credits	16
Second Year			
1ST SEMESTER			
IOI SEMESTER	PSYC 2340*	Abnormal Psychology	3
	OR	Abhomar ofeneregy	. ,
	PSYC 2330*	Psychology of Adjustment	3
	PSYC 2080*	Psychobiology	
	OR		
	PSYC 2210*	Drugs and Behavior.	. 3
		Choose from faculty-approved Lab Science courses	
GenEd: STEM	STAT 2010*	Statistical Concepts – Business	. 4
	OR		
GenEd: STEM	STAT 2050*	Fundamentals of Statistics	. 4
	OR		
GenEd: STEM	STAT 2070*	Introductory Statistics for the Social Sciences	. 4
		Semester Credits	14
2ND SEMESTER			
	PSYC 2000*	Research Psychological Methods.	
	PSYC 2380*	Social Psychology	. 3
	OR PSYC 2090*	Deuch alore of Deligion	2
	PSYC 2090*	Psychology of Religion Choose from faculty-approved elective courses.	.) 2
		Choose from faculty-approved elective courses.	
GenEd: CA		Choose from approved Cultural Awareness courses.	
ucheu. Ch			16
		Total Credits	61

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Other Information

Students should see a faculty advisor for recommendations for program electives pertaining specifically to the University of Wyoming.

CNSL 2300 is a recommended program elective for students interested in counseling or therapy tracks.

Psychology – Social Work Concentration

Associate of Arts

A psychology major pursues either the Associate of Science or the Associate of Arts degree. This major requires the completion of 19 credit hours in psychology in addition to meeting the general education requirements. The course list below is designed to satisfy all requirements for an Associate of Science of the Associate of Arts degree at Laramie County Community College with a major in psychology. Completion of an Associate of Science degree with a major in psychology can prepare students to transfer into the junior year of a Bachelor of Science degree program. Completion of an Associate of Arts degree can prepare students to transfer into the junior year of a Bachelor of Arts degree program. Psychology majors are strongly encouraged to determine the degree requirements of the specific college and program to which they plan to transfer.

First Year		
1ST SEMESTER	COURSE PSYC 1000*	TITLECREDITSGeneral Psychology
GenEd: AA GenEd: CS	COLS 1000	Choose from approved Aesthetic Analysis courses
GenEd: CW GenEd: CV	ENGL 1010*+ CO/M 2010*	English I: Composition
2ND SEMESTER		Semester Credits 15
2ND SEMIESTER	PSYC 2300*	Developmental Psychology
GenEd: LAB	BIOL 1003 OR	Current Issues in Biology
GenEd: LAB GenEd: OR	BIOL 1010* MATH 1010+	General Biology
	OR	
GenEd: QR	MATH 1400+	College Algebra
Second Year	•	
1ST SEMESTER		
	PSYC 2080* PSYC 2340* OR	Psychobiology
	PSYC 2330*	Psychology of Adjustment
GenEd: WY GenEd: STEM	POLS 1000* STAT 2070*	American and Wyoming Government 3 Introductory Statistics for the Social Sciences 4
2ND SEMESTER		Semester Credits 16
2ND SEINESTER	ECON 1010* PSYC 2000* PSYC 2380* OR	Principles of Macroeconomics 3 Research Psychological Methods. 4 Social Psychology 3
	PSYC 2090* SOWK 2000*	Psychology of Religion
GenEd: CA	SOC 1000	Sociological Principles

Total Credits 60

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Program Electives – Students are encouraged to meet with their advisor or faculty mentor to identify requirements at their target transfer institutions. Suggested electives for transfer to a BA PSYC degree include the following; in addition, two semesters of a foreign language are recommended.

ANTH 1100	4 credits	Introduction to Biological Anthropology		
CNSL 2300	3 credits	Counseling Skills for Helping Professionals		
Recommended program elective for students interested in counseling or therapy tracks.				
HIST 2290	3 credits	History of North American Indians		
HIST 2389	3 credits	History of Women and the American West		
SOC 1000	3 credits	Sociological Principles		

Other Information

Students should see a faculty advisor for recommendations for program electives pertaining specifically to the University of Wyoming.

Radiography (X-ray)

Associate of Applied Science

The radiography program offers the student the knowledge and skills for utilizing radiation in the diagnosis of disease under the direction of a physician. Most radiographers work in hospitals, medical clinics, and private medical offices, while some are employed in industrial, sales, governmental, and educational institutions.

The five semester program (which does not include the prerequisite courses) combines academic study with supervised clinical experience. Graduates of the program will receive an Associate of Applied Science degree and be eligible to take the national certifying examination of the American Registry of Radiologic Technologists. Upon passing the examination, a student is certified as a registered radiologic technologist.

The Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 2850, Chicago, IL 60606-3182 (www.jrcert.org), through its accreditation of the program in radiography at LCCC, has established a maximum number of students selected each year for the program based on clinical site availability. Most students are employed immediately upon graduation from the program. Bachelor's and master's degrees are also available in the field. The program begins a new class each fall.

A student interested in applying for the radiography program may contact the Radiography Program Director, Clinical Coordinator, or the Admissions Office for specific procedures, including placement tests, which must be completed in the early spring for admission to the program in the fall semester. Selection of new students will be completed by early April and is based on a student's grade point average, prerequisites completed, the date of receipt of application, and other criteria as noted in the program application materials.

Laramie County Community College does not discriminate on the basis of race, color, national origin, sex, age, religion, political affiliation, or disability in admission or access to, or treatment or employment in, its education programs or activities.

The following prerequisite courses must be in progress or completed with a grade of "C" or better by the application deadline (March 1) for the radiography program. Students are encouraged to contact the radiography program faculty directly for program-specific questions.

Prerequisite

GenEd: QR Additional 1st Seme GenEd: CS	COURSE HLTK 1200^ ZOO 2015^ ZOO 2025^ MATH 1400+ ster Course COLS 1000ð	TITLECREDITSMedical Terminology.2Human Anatomy ¹ 4Human Physiology ¹ 4College Algebra ¹ 3Introduction to College Success: First-Year Seminar.3Semester Credits16
First Year		
FALL I GenEd: WY GenEd: CV GenEd: CW	RDTK 1503* RDTK 1520* RDTK 1620* USWYð CO/M 2010*^ð ENGL 1010*+ð	Introduction to Radiography4Radiographic Patient Skills1Radiation Biology and Protection3Choose from approved U.S./Wyoming Constitution courses3Public Speaking3English I: Composition3Clinical: Last 7-8 weeks, 10-12 hours/week = 70 hours²3Semester Credits17
	RDTK 1610* RDTK 1611* RDTK 1583* RDTK 1584* RDTK 1590*	Radiographic Imaging I3Radiographic Imaging I Lab1Radiographic Procedures I3Radiographic Lab I1Clinical Education I4Clinical: TTh, 12 hours/week = 180 hours²12
SUMMER I	RDTK 1683* RDTK 1684* RDTK 1713*	Radiographic Positioning II 3 Radiographic Lab II 1 Clinical Education II 4 Clinical: MWF 24 hours/week = 192 hours 4 + 20 shiftwork hours = 212 hours ² 5 Semester Credits 8

Second Year

FALL II

FALLI		
	RDTK 2583*	Radiographic Positioning III
	RDTK 2584*	Radiographic Lab III 1
	RDTK 2623*	Radiographic Equipment, Digital Imaging, and Quality Assurance 3
	RDTK 2624*	
		Radiographic Lab IV
	RDTK 2510*	Clinical Education III
		Clinical: First 4 weeks, MTWTHF = 29 hours/week +
		Last 11 weeks, MWF = 21 hours/week = 325 hours ²
		Semester Credits 15
SPRING II		
	RDTK 2630*	Radiographic Pathology 1
	RDTK 2603*	Survey of Technical Specialties
	RDTK 2900*	Radiography Seminar
	RDTK 2000	Clinical Education IV
	KD1K 2013	
		Clinical: MWF = 21 hours/week = 315 hours^2
		Semester Credits 14
		Total Credits 82
		Total Clinical Hours 1,102

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

ð Indicated course may be taken prior to program admission however all courses must be completed before or during the semester progression as indicated.

- ¹ Science and math courses must be five years current.
- ² Clinical hour totals are approximate and may very slightly because of scheduled college holidays/planning days.

^Program Comments

Students should take ZOO 2015 and ZOO 2025 however ZOO 2010 and ZOO 2020 may be accepted. Additional prerequisites apply for this option.

For the class entering Fall 2017 (catalog year 2017-2018), MATH 1400 is required.

Beginning with the 2017-2018 academic year (catalog), CO/M 2010 is required; CO/M 1030 will no longer satisfy the CV requirement for any degree.

Other Information

Additional Supplemental courses not required but may be taken to improve a student's application score include: PSYC 1000, PHYS 1050, and HLTK 2300.

1110 1020, 4114		
HLTK 2300	3 credits	Health Care Ethics
PSYC 1000	3 credits	General Psychology
PHYS 1050	4 credits	Concepts of Physics

Prerequisites and other courses in the radiography curriculum are only eligible for transfer credit from regionally accredited institutions and/or JRCERT-accredited programs. Students seeking advanced standing will be evaluated on an individual basis and may be required to take competency examinations monitored by the faculty to determine the level at which the student will enter the program. Official transcripts will be required. All transcripts will be evaluated by LCCC's registrar and the radiography program director for transfer credit and/or advanced placement, as applicable.

Drug Screening and Criminal Background Checks

All allied health students are required to submit a pre-clinical urine drug screen according to the policy of the Allied Health Programs at LCCC. The drug screen is completed after a student's program acceptance and at the student's expense.

At their discretion, clinical sites may also require a drug screening and/or a criminal background check prior to allowing students into the clinical setting. (If required, any associated fees will be the responsibility of the student.) In addition, LCCC and the clinical sites may require random drug testing and/or drug testing for reasonable cause. Generally, the urine drug test screens for alcoholic beverages, illegal drugs, or drugs that impair judgment while in the clinical agency. Testing positive on the screening or evidence of tampering with a specimen will disqualify a student from participation from clinical assignment.

In addition to drug screening, for the safety of patients and health care workers, allied health workers must also undergo a background check performed at the student's expense. The student's acceptance will not be final until LCCC has received background check information from the reporting agencies, and the background check is clear of disqualifying offenses. For more information, please see the complete School of Health Sciences & Wellness Policies for Allied Health Students posted on the school website. Certain criminal activities, as evidenced by a criminal background check, may also disqualify a student from clinical participation.

Students are advised that the inability to gain clinical education experiences can result in the inability to meet program objectives and outcomes. These circumstances may prevent acceptance into and/or progression through the program and may ultimately result in dismissal from the program.

NOTE: Applicants who have been convicted of a felony (or have pled guilty or nolo contendre to a felony) should request a copy of a letter concerning his/her eligibility status for licensure from the Wyoming State Board of Radiologic Technologist Examiners and the American Registry of Radiologic Technologists. The Wyoming State Board of Radiologic Technologist Examiners can deny licensure if the Board feels that such denial is in the public's interest. The American Registry of Radiologic Technologists can also deny certification for the same reason.

Social Sciences

Associate of Arts

Social sciences study the ways humans exist within economic, political, familial, psychological, geographical, historical, or social structures. This diverse thematic and systematic study of individuals and groups demonstrates the wide range of disciplines and methodologies used to analyze social problems and structures. Such courses also give considerable attention to the development and justification of conclusion and theories within social disciplines.

First Year

1ST SEMESTER	COURSE	TITLE CREDITS
	PSYC 1000*	General Psychology
	SOC 1000	Sociological Principles
GenEd: AA		Choose from approved Aesthetic Analyses courses
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	English I: Composition
		Semester Credits 15
2ND SEMESTER		
	HIST 1110*	Western Civilization I
	SOWK 2000*	Introduction to Social Work
GenEd: WY	POLS 1000*	American and Wyoming Government
GenEd: QR	MATH 1010+	Problem Solving
	OR	
	STAT 2070*	Introductory Statistics for the Social Sciences
Choose from one of	of the following GenEd	: CA courses:
	AMST 2010*	Introduction to American Studies
	AMST 2110*	Cultural Diversity in America
	GEOG 1000*	World Regional Geography
	GEOG 1020*	Human Geography
	POLS 1200*	Non-Western Political Cultures
	OR	Choose from approved GenEd: CA course from HIST
		Semester Credits 15-16
- 1		
Second Year	•	
1ST SEMESTER		
	ADDN 1000*	Introduction to Addiction Studies
	OR	
	CNSL 2300*	Counseling Skills for the Helping Profession
	CRMJ 2120*	Introduction to Criminal Justice
	HMSV 1010*	Orientation to Human Services (Fall Only)
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: LAB	ANTH 1100	Introduction to Biological Anthropology
	OR	1
GenEd: LAB	GEOG 1010*	Introduction to Physical Geography 4
		Semester Credits 16
2ND SEMESTER		
	ANTH 1200	Introduction to Cultural Anthropology
	POLS 2310	Introduction to International Studies
		Choose from approved elective courses
		Choose from approved elective courses
GenEd: STEM	MATH 1010+	Problem Solving
	OR	
GenEd: STEM	STAT 2070*	Introductory Statistics for the Social Sciences
		Semester Credits 14-16
		Total Credits 60-63

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Spanish – Education Concentration

Associate of Arts

First Year

Students interested in studying Spanish with the intent of earning an Associate of Arts degree or transferring to a four-year university for a Bachelor of Arts degree should major in Spanish. A Spanish degree empowers students to understand, speak, read, and write Spanish and gain a broad understanding of the Hispanic civilization and culture in the work place and within the United States.

Laramie County Community College's Spanish Program offers two paths for obtaining an Associate of Arts degree: Spanish – Liberal Arts and Spanish Teaching. Both of these emphases are intended for those majoring in Spanish at a four-year institution. Double majoring with Spanish is recommended for many careers. Consult your academic advisor for further information.

Students pursuing a career in education either as Spanish teachers or bilingual school administrators should complete an Associate of Arts degree with an emphasis in Spanish Teaching. This pathway allows students to complete the coursework in Spanish and also complete their required course load in education-related courses. Students completing this path are encouraged to double major with Spanish and Education, doing so will more effectively prepare them for transfer to a four-year institution.

FIISt IEal			
1ST SEMESTER	COURSE SPAN 1010	TITLE CREDITS	
GenEd: CW	ENGL 1010*+	First Year Spanish I 4 English I: Composition 3	, ,
GenEd: CW GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar	, ,
GenEd: AA	COL3 1000	Choose from approved Aesthetic Analysis courses	
GenEd: CA		Choose from approved Cultural Awareness <u>courses</u>	į
denied. en		Semester Credits 16	
2ND SEMESTER	2		
	SPAN 1020*	First Year Spanish II	ł
		Choose from faculty-approved elective courses. [^]	
GenEd: LAB		Choose from approved Lab Science courses	Ļ
GenEd: QR	MATH 1010+^	Problem Solving	5
	OR	Ŭ	
GenEd: QR	MATH 1400+^	College Algebra	;
	OR HIGHER		_
		Semester Credits 14	ŀ.
Second Year	r		
1ST SEMESTER			
151 SEMIESTER	SPAN 2030*	Second Year Spanish I	1
	01711 2000	Choose from faculty-approved elective courses.^	
GenEd: STEM		Choose from approved STEM courses	L
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses	;
GenEd: CV	CO/M 2010*	Public Speaking	5
		Public Speaking	i
2ND SEMESTER	2		
	SPAN 2040*	Second Year Spanish II (Spring Only) 4	Ļ
		Choose from faculty-approved elective courses. ^	3
		Choose from faculty-approved elective courses.	3
		Choose from faculty-approved elective courses.^	;
		Semester Credits 13	j
		Total Credits 60	i

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Students pursuing Elementary Education should choose MATH 1100 and EDEL 1410 in lieu of MATH 1010 or MATH 1400. The total program credit hours for this option is 61 credits.

Program Electives – Consult your faculty advisor for recommendations.

 logiani Licenves Consi	and your faculty c	
EDEX 2484	3 credits	Introduction to Special Education
EDFD 1010	1 credit	Introduction to Teaching
EDFD 2020	3 credits	Foundations of Education
EDFD 2100	3 credits	Educational Psychology
EDST 2450	3 credits	Human Life Span Development
EDUC 2100	2 credits	Public School Practicum
HIST 2390/HUMN 2395	3 credits	Mexican Civilization
HUMN 1010	3 credits	Introductory Humanities I
ITEC 2360	3 credits	Teaching with Technology
SPAN 1071	3 credits	Intensive Spanish Abroad Conversation
SPAN 2070	3 credits	Intensive Spanish Abroad
SPAN 2140	3 credits	Introduction to Spanish Literature

LCCC Catalog 2016-2017

Spanish – Liberal Arts Concentration

Associate of Arts

Students interested in studying Spanish with the intent of earning an Associate of Arts degree or transferring to a four-year university for a Bachelor of Arts degree should major in Spanish. A Spanish degree empowers students to understand, speak, read, and write Spanish and gain a broad understanding of the Hispanic civilization and culture in the work place and within the United States.

Laramie County Community College's Spanish Program offers two paths for obtaining an Associate of Arts degree: Spanish – Liberal Arts and Spanish Teaching. Both of these emphases are intended for those majoring in Spanish at a four-year institution. Double majoring with Spanish is recommended for many careers. Consult your academic advisor for further information.

This pathway allows students to complete an Associate of Arts degree in Spanish with an emphasis in liberal arts, allowing students to further pursue a bachelor's degree in a liberal arts field or increase their employability by becoming bilingual. Students who complete Spanish broaden their career opportunities in many different fields such as travel, broadcasting, translating, law enforcement, nursing, international business, public relations, diplomacy, FBI, CIA, advertising, management, government, public relations, social service, and many others.

Program Articulation: This program is articulated with the University of Wyoming. Any deviations from the prescribed course list will not articulate.

First Year

CREDITS	E TITLE	COURSE	1ST SEMESTER
		SPAN 1010	151 SEMIESTER
	10*+ English	ENGL 1010*+	GenEd: CW
s: First-Year Seminar		COLS 1000	GenEd: CS GenEd: AA
tic Analysis courses	Choose		GenEd: CA
Semester Credits 16	choose		denEa. en
			2ND SEMESTER
		SPAN 1020*	
elective courses.^			GenEd: LAB
		MATH 1010+	GenEd: QR
		OR	
		MATH 1400+	GenEd: QR
Semester Credits 14	HEK	OR HIGHER	
			Second Year
			1ST SEMESTER
	30* Second	SPAN 2030*	151 SEMESTER
elective courses. [^]	Choose		
ourses	Choose		GenEd: STEM
voming Constitution courses	10* Choose	CO/M 2010*	GenEd: WY GenEd: CV
Semester Credits 17		00/11/2010	denEa. ev
			2ND SEMESTER
Only)		SPAN 2040* SPAN 2140	
uie	40 11110000	OR	
	00/	HIST 2390/	
ly) 3	395 Mexican	HUMN 2395	
versation (Spring Only)	71 Intonciv	OR SPAN 1071	
	III IIItellSiv	OR	
ng Only)	70 Intensiv	SPAN 2070	
elective courses.^	Choose		
elective courses.^	Choose		
Total Credits 60			
Iotal Credits 60			

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^ Program Comments

Program electives should be from the following disciplines: ART, CO/M, ENGL, HUMN, MUSC, PHIL, MMMM, RELI, THEA, or foreign languages.

Program electives in the final semester should be from the following disciplines: ANTH, BADM, BUS, ECON, GEOG, HIST, POLS, PSYC, RELI, SOC or foreign languages.

Surgical Technology

Associate of Applied Science

Surgical technologists are allied health professionals who are an integral part of the surgical team. Their primary role is to work with surgeons, anesthesiologists, registered nurses, and other surgical technologists in delivering patient care and assuming appropriate responsibilities before, during, and after surgery. Specifically, surgical technologists apply and maintain the principles of sterile technique and safety in the operation room: prepare, handle, sterilize, and care for surgical instruments, supplies, equipment, and supplies for various surgical cases; apply critical thinking skills to anticipate procedural steps and corresponding instrumentation; and pass surgical instrumentation and supplies to the surgeon. The goal of the Surgical Technology Associates of Applied Science degree program is to prepare competent, entry-level surgical technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. Graduates of the program will be able to apply fundamental theoretical knowledge in the practice of surgical technology; acquire and evaluate emerging surgical knowledge; effectively and safely manipulate surgical equipment, instruments, and supplies; consistently maintain sterile technique; demonstrate the ability to maintain a stable emotional state, even under stressful conditions, which enables the effective use of reason and good judgment in patient care situations; and demonstrate the formation of a strong sterile conscience.

The program has limited enrollment and admits one class each fall. The first two semesters in the course sequencing are required to be completed or in progress prior to application to the program. Prospective students should check the Surgical Technology website or contact the Program Director for admission application information.

Once the student has been accepted, the intensive 11-month surgery core program combines online lectures and discussions with hands-on laboratory practice, and supervised clinical experiences in actual patient care settings to provide students with a variety of learning opportunities.

Program Accreditation: This program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 1361 Park Street, Clearwater, FL 33756, which allows graduates to take the national certifying examination sponsored by the National Board for Surgical Technology and Surgical Assisting (NBSTSA).

First Year – Prerequisites

1ST SEMESTER	COURSE	TITLE	CREDITS
	HLTK 1200	Medical Terminology	2
	ZOO 2015^	Human Anatomy	4
GenEd: CS	COLS 1000^	Introduction to College Success: First-Year Seminar	3
GenEd: CW	ENGL 1010*+	English I: Composition	3
GenEd: QR	MATH 1010+^	Problem Solving	3
	OR HIGHER	•	

Prerequisite Credits 15

First Year – Prerequisites

	HLTK 2510*	Pathophysiology
	MICR 2240*	Medical Microbiology 4
	ZOO 2025*^	Human Physiology
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
GenEd: CV	CO/M 2010*^	Public Speaking
	OR	
GenEd: CV	CO/M 1015*^	Foundations of Communication
	OR	
	CO/M 1030*^	Interpersonal Communication
		Prerequisite Credits 16

Second Year

1ST SEMESTER	– FALL			
	SURG 1600*	Introduction to Surgical Technology		3
	SURG 1610*	Surgical Technology Theory		
	SURG 1620*	Surgical Technology Skills Lab I		
	SURG 1685*	Surgical Pharmacology		2
	HLTK 2300*	Health Care Ethics		3
			Semester Credits	15
2ND SEMESTER	- SPRING			
	SURG 1630*	Surgical Technology Skills Lab II		1
	SURG 1750*^	Surgical Procedures I		4
	SURG 2750*^	Surgical Procedures II		4
	SURG 1850*	Surgical Technology Clinical I		5
	SURG 2810*	Surgical Technology Clinical Synthesis I		
			Semester Credits	15

3RD SEMESTER – SUMMER

SURG	2850*
SURG	2895*

Total Credits

69

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

Students should take ZOO 2015 and ZOO 2025. Completion of ZOO 2010 and ZOO 2020 may be accepted however additional prerequisites apply for this option.

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

SURG 1750 is offered in the first 8 weeks.

SURG 2750 is offered in the second 8 weeks.

Other Information

Drug Screening and Criminal Background Checks

Clinical sites require a drug screening and/or a criminal background check prior to allowing students into the clinical setting. (Any associated fees will be the responsibility of the student.) Clinical sites may also require random drug testing and/or drug testing for reasonable cause. Testing positive on the drug screening or evidence of tampering with a specimen will disqualify a student from participation from clinical assignment.

In addition to drug screening, for the safety of patients and health care workers, child abuse clearance and criminal background checks are required by some agencies prior to a clinical assignment. Certain criminal activity, as evidenced by a criminal background check, may also disqualify a student from clinical participation.

Students are advised that the inability to gain clinical education experiences can result in the inability to meet program objectives and outcomes. These circumstances may prevent acceptance into and/or continuance in the program.

Surgical Technology - Central Sterile Processing

Credit Diploma

The Central Sterile Processing Program provides the content and clinical collaboration for students to be successful and meet the standards of the Sterile Processing Technician profession. This one semester program provides students the basic fundamental skills needed to become employed in the Central Processing/Service Departments in healthcare. Students will have clinical experiences within healthcare settings which will allow for students to achieve the necessary clinical hours for certification. Upon completion of the program, students are able to sit for the certification exam through International Association of Healthcare Central Service Material Management (IAHCSMM).

First Year

1ST SEMESTER	COURSE	TITLE	CRE	DITS
	SURG 1500*	Central Sterile Processing		7
	SURG 1501*	Central Sterile Processing Clinical		9
			Semester Credits	16
			Total Credits	16

* This course has at least one corequisite. Check the Course Descriptions section of the catalog to see the course corequisites.

Other Information

Drug Screening and Criminal Background Checks

Clinical sites require a drug screening and/or a criminal background check prior to allowing students into the clinical setting. (Any associated fees will be the responsibility of the student.) Clinical sites may also require random drug testing and/or drug testing for reasonable cause. Testing positive on the drug screening or evidence of tampering with a specimen will disqualify a student from participation from clinical assignment.

In addition to drug screening, for the safety of patients and health care workers, child abuse clearance and criminal background checks are required by some agencies prior to a clinical assignment. Certain criminal activity, as evidenced by a criminal background check, may also disqualify a student from clinical participation.

Students are advised that the inability to gain clinical education experiences can result in the inability to meet program objectives and outcomes. These circumstances may prevent acceptance into and/or continuance in the program.

Technical Studies

Associate of Applied Science

The Associate of Applied Science degree in Technical Studies is intended for individuals who desire to build upon a Department of Labor-recognized apprenticeship training program, or the completion of the Technical core for the award of United Stated Air Force Community College of the Air Force (CCAF) Degree, both of which bring demonstrated knowledge, skills and competencies in their field as the technical foundation of the degree. Students will complete course work in the general education core and a selection of management courses to complete the degree program. Students will be advised and their apprenticeship of CCAF technical core will be evaluated for awarding of credit on an individual basis.

First Year

1ST SEMESTER		TITLE CREDITS
	MGT 1000*	Introduction to Supervision
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CV	CO/M 2010*	Public Speaking
GenEd: CW	ENGL 1010*+	English I: Composition
		Semester Credits 12
2ND SEMESTER		
	BADM 1000*	Introduction to Business
	MGT 1200*	Human Resources Management
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
GenEd: OR	MATH 1010+	Problem Solving
doniba. dit	OR	
	MATH 1510*	Technical Mathematics I
	OR HIGHER	
		Semester Credits 12

Second Year

1ST SEMESTER

Approved program electives as needed to meet the 60 credit hour minimum

Total Credits 60

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Welding Technology

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Associate of Applied Science

The Welding Technology program of study leads to an Associate of Applied Science degree and prepares students for work in the field of welding technology. In addition to gaining an overall understanding of welding machines, weld processes, and hands-on welding proficiency, students develop skills in the areas of print reading, welding symbols, weld inspection, destructive and non-destructive testing, computer-aided drafting along with precision maching tool operation. Students gain knowledge and skills necessary to prepare them for weld qualification to code specification(s).

First Year		
FALL		
SEMESTER	COURSE WELD 1555* WELD 1650* WELD 1655* WELD 1755* WELD 1756* WELD 1771* WELD 2650*	TITLECREDITSWelding Technology Safety.2Print Reading and Welding Symbols3Allied Cutting Processes.2Shielded Metal Arc Welding I4Shielded Metal Arc Welding II4Gas Metal Arc Welding/Flux Core Arc Welding4Gas Tungsten Arc Welding4Semester Credits23
SPRING SEIVIES	WELD 1760*	Advanced Shielded Metal Arc Welding4
	WELD 1700 WELD 2680 WELD 1805* WELD 1810* WELD 1815*	Welding Metallurgy 2 Pipe Welding I 4 Pipe Welding II 4 Pipe Welding III 4 Semester Credits 18
Second Yea	r	
FALL SEMESTE	R	
GenEd: CS GenEd: WY GenEd: CW GenEd: QR	COLS 1000 ENGL 1010*+ MATH 1510*+ OR MATH 1010+	Introduction to College Success: First-Year Seminar 3 Choose from approved U.S./Wyoming Constitution courses. 3 English I: Composition 3 Technical Mathematics I. 3 Problem Solving 3
	OR HIGHER	-
		Semester Credits 12
SPRING SEMES	ENTK 2500* BADM 1000*	Computer-Aided Drafting I (Fall Only) 3 Introduction to Business 3 Choose from faculty-approved Cultural Awareness courses 3 OR 3 Choose from faculty-approved Aesthetic Awareness courses 3
GenEd: CV	CO/M 2010*^ OR	Public Speaking
GenEd: CV	CO/M 1015*^ OR	Foundations of Communication
	CO/M 1030*^	Interpersonal Communication
		Total Credits 65
* This course has	at logat and proroau	isite Check the Course Descriptions section of the estaled to see the course

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+ If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

^Program Comments

CO/M 1030 completed prior to the 2016-2017 academic year will satisfy the CV requirement for **AAS degrees only** for programs started during the 2015-2016 and 2016-2017 academic years. Beginning with the 2017-2018 academic year (catalog), CO/M 1030 will no longer satisfy the CV requirement for any degree.

Welding Technology (Combination Welding)

Credit Diploma

The Welding Technology (Combination Welding) credit diploma prepares students for work in the field of welding technology. In addition to gaining an overall understanding of welding machines, weld processes, and handson welding proficiency, students develop skills in the areas of print reading, welding symbols, weld inspection, destructive and non-destructive testing, along with precision machine tool operation. Students gain knowledge and skills necessary to prepare them for weld qualification to code specification(s).

Completion of the Welding Technology (Combination Welding) credit diploma is required for enrollment in the Welding Technology (Advanced Pipe Welding) credit diploma courses.

COURSE	TITLE CREDITS	
WELD 1555*	Welding Technology Safety	
WELD 1650*		
WELD 1655*		
WELD 1755*		
WELD 1756*		
WELD 1771*		
WELD 2650*		
	Semester Credits 23	
	Total Credits 23	
	WELD 1555* WELD 1650* WELD 1655* WELD 1755* WELD 1756* WELD 1771*	WELD 1555*Welding Technology Safety.2WELD 1650*Print Reading and Welding Symbols3WELD 1655*Allied Cutting Processes.2WELD 1755*Shielded Metal Arc Welding I4WELD 1756*Shielded Metal Arc Welding II4WELD 1771*Gas Metal Arc Welding/Flux Core Arc Welding4WELD 2650*Gas Tungsten Arc Welding4Semester Credits23

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Welding Technology (Advanced Pipe Welding)

Credit Diploma

The Welding Technology (Advanced Pipe Welding) credit diploma builds upon the Welding Technology (Combination Welding) credit diploma program of study and prepares students for work in the field of welding technology. In addition to gaining an overall understanding of welding machines, weld processes, and handson welding proficiency, students develop skills in the areas of print reading, welding symbols, weld inspection, destructive and non-destructive testing, along with precision machine tool operation. Students gain knowledge and skills necessary to prepare them for welding qualification to code specification(s).

Completion of the Welding Technology (Combination Welding) credit diploma is required for enrollment in the Welding Technology (Advanced Pipe Welding) credit diploma courses.

First Year SPRING

SEMESTER	COURSE	TITLE	CREI	DITS
	WELD 1760*	Advanced Shielded Metal Arc Welding		4
	WELD 1805*	Pipe Welding I		4
	WELD 1810*	Pipe Welding II.		4
	WELD 1815*	Pipe Welding III		4
	WELD 2680	Welding Metallurgy		2
		Semester		18
		Total	Credits	18

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

Wind Energy

Associate of Applied Science

The Associate of Applied Science degree in Wind Energy is designed for students who want to gain valuable industry skills while pursuing a basic academic foundation. General education requirements, industrial maintenance knowledge and skills, and specific wind power industry topics are combined to provide the groundwork for direct industry employment.

First Year

	COURCE	
1ST SEMESTER	IST 1660*	TITLE CREDITS
	IST 1661	Mechanical Drives
	IST 1710*	
	IST 1710	DC Electricity
	IST 1712*	
	IST 1712	AC Electricity
	WTT 1000	AC Electrical Circuits
	WTT 11000	Climb Safety and Tower Rescue Training
GenEd: CS	COLS 1000	Introduction to College Success: First-Year Seminar
GenEd: CW	ENGL 1010*+	
Geneu: Cw	ENGLIDIO +	English I: Composition
2ND SEMESTER		Semester Creans 20
2ND SEMIESTER	IST 1610*	Fluid Power
	IST 1611	Fluid Power Circuits
	IST 1770*	Motor Controls
	IST 1771*	Motor Control Circuits
	WTT 1200*	Wind Turbine Mechanical Systems
	WTT 2500*	Advanced AC Electricity
GenEd: OR	MATH 1010+	Problem Solving
denied. art	OR HIGHER	riodeni conting
		Semester Credits 15
C		
Second Year		
1ST SEMESTER		
	IST 1810*	Programmable Logic Controllers
	IST 1811	PLC Circuits I
	WTT 1300*	Theoretical Concepts of Rotating Machines
	WTT 2200*	Advanced Wind Turbine Generator Mechanical Systems
		Choose from approved Lab Science or STEM courses
GenEd: CV	CO/M 2010*	Public Speaking
		Semester Credits 15-16
2ND SEMESTER		
	WTT 2300*	Wind Turbine Data Acquisition
	WTT 2400*	Power Generation, Transmission, and Distribution
	WTT 2600*	Advanced Industrial Motor Control Applications
GenEd: WY		Choose from approved U.S./Wyoming Constitution courses
		Semester Credits 12
		Total Credits 62-63
* This course has		visite Check the Course Departmentions and the optical states are the source of

* This course has at least one prerequisite. Check the Course Descriptions section of the catalog to see the course prerequisites.

+If the placement test score is not adequate for course enrollment, students must complete the appropriate developmental course(s) before enrolling. These courses may increase the total number of program credits. Students should review their math and writing placement with their advisor before planning out their full program schedules.

Prerequisites

A prerequisite is designed to help students be successful. Prerequisites also inform prospective students what body of knowledge is necessary to be successful in a particular course.

If a prerequisite course is listed for a subsequent course, the student must have completed satisfactorily (grade of C or better) the prerequisite course, scored at an equivalent level on the college placement test, or completed an equivalent course at a college/university with regional accreditation. Equivalent courses must be demonstrated by submitting an official transcript, and final determination will be made by the Student Records Office/Registrar. For additional information, please refer to the "Academic Skills Assessment and Placement Policy" on Page 13.

The college has designated reading, writing, and math prerequisite skill levels for many of the courses in the curriculum. The table below equates placement test levels with a specific developmental course.

This sample course description identifies how to determine the prerequisites for a given course.

PHYS 1050 4 CREDITS CONCEPTS OF PHYSICS In this introductory course, students become familiar with the science of matter interacting with energy in a variety of fields. Students demonstrate their competencies in the scientific method, properties of matter, mechanics, heat, sound, light, electricity and magnetism, radiation, and atomic and nuclear interactions. This course is recommended for students in the paramedical sciences- medical terminology, radiographic technology, sonography, exercise science, applied technology, and other non-science majors requiring a lab science course. Student receiving credit for PHYS 1110 cannot receive credit for PHYS 1050 or PHYS 1310. Prerequisite: Completion of MATH 0980 or MATH 0990 and completion of ENGL 0810.

Students registering for PHYS 1050 must have completed successfully:

- MATH 0980 Integrated College Algebra Algebraway I or MATH 0990 – Integrated Pre-Calculus Stemway I
- ENGL 0810 Fundamentals of Reading and Writing

Course Descriptions

Accounting

ACCT 2010 3 CREDITS PRINCIPLES OF ACCOUNTING I

Students examine the role of accounting information in business and society. Utilizing critical thinking and decision making skills, students create financial information in accordance with Generally Accepted Accounting Principles (GAAP). Students evaluate how financial information is used in making business decisions. Prerequisite: Completion of MATH 0970 and ENGL 0810 or equivalent placement test score.

ACCT 2020 3 CREDITS PRINCIPLES OF ACCOUNTING II

ACCT 2020 is a continuation of ACCT 2010. Students prepare accounting transactions for corporations and partnerships, and analyze stockholder's equity and the statement of cash flows. Students examine reports and information needed by the management of a business to make good decisions. Students recognize the role accounting information plays in aiding the functions of planning, budgeting and control of a business. Prerequisite: Completion of ACCT 2010.

ACCT 2110 3 CREDITS MICROCOMPUTER ACCOUNTING

Students demonstrate the practical application of accounting utilizing current software. Students create accounting records for businesses and utilize fundamental accounting concepts within the computerized system to address problem-solving situations. Topics covered include the general ledger, accounts receivable, accounts payable, job costing, and payroll. Prerequisite: Completion of ACCT 2010 or equivalent preparation.

ACCT 2120 2 CREDITS MICROCOMPUTER ACCOUNTING II

Students learn the practical application of accounting utilizing an additional software program. Students create accounting records for businesses and utilize fundamental accounting concepts within the computerized system to address problem-solving situations. Topics covered include the general ledger, accounts receivable, accounts payable, inventory control, job costing, payroll and billing features of software. Prerequisite: Completion of ACCT 2010 or equivalent preparation. ACCT 2230 3 CREDITS INTERMEDIATE ACCOUNTING I Students acquire knowledge of the principles and theory of accounting relating to financial statements, accounting information systems, the Income Statement and related information, Statement of Cash Flows, cash, receivables, and valuation of inventories. Prerequisite: Completion of ACCT 2020.

ACCT 2430 INCOME TAX

A study of the fundamentals of individual federal income taxation designed to help students acquire an understanding of federal income tax determination, personal and dependency exemptions, gross income concepts, inclusions and exclusions, and general deductions and losses. Emphasis is placed on forms completion. Prerequisite: Completion of ENGL 0810 and ACCT 2010, or instructor approval.

3 CREDITS

ACCT 2450 3 CREDITS COST ACCOUNTING

Students apply the fundamental principles of managerial cost accounting including the accumulation and reporting of accounting information needed for product and standard costing as well as information for planning, decision making and control activities. Prerequisite: Completion of ACCT 2020.

ACCT 2460 3 CREDITS PAYROLL ACCOUNTING

Students examine employment legislature and tax laws that affect a company's payroll structure. Students acquire a practical working knowledge in maintaining payroll records, computing gross pay, calculating payroll taxes, analyzing and journalizing payroll transactions, utilizing a computerized payroll system, and payroll reporting requirements and forms. Prerequisite: Completion of or concurrent enrollment in ACCT 2010.

Addictionology

ADDN 1000 INTRODUCTION TO ADDICTION STUDIES

Students explore the field of addiction studies through examining the nature of addiction and biological, psychological, and social aspects of addiction and addiction studies as a career choice. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

3 CREDITS

ADDN 1015 RELAPSE PREVENTION

Students review basic philosophy and techniques of relapse prevention for addiction and the ongoing process that involves all aspects of the person's wellness and culture. Students learn to recognize the warning signs for relapse, the 12-step approach to recovery and general wellness concepts. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

ADDN 1016 2 CREDITS PHYSIOLOGICAL ACTIONS OF DRUG AND ALCOHOL ABUSE

Students identify the classifications of drugs and the physiological effects of these psychoactive substances on the user. Management of chronic and acute conditions, drug interactions, prevention and treatment are covered. This course provides six hours of communicable disease training in the areas of transmission, occupational safety, and standard precautions. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

ADDN 2010 2 CREDITS ADDICTIONS ASSESSMENT AND MOTIVATIONAL INTERVIEWING

Students explore the use of screening, evaluation and assessment techniques as well as being able to determine client's readiness for treatment and change, and determining an appropriate level of care for the client. Prerequisite: Completion of ENGL 0810 or equivalent placement test score, and ADDN 1000, ADDN 1016, and CNSL 2300.

ADDN 2020 2 CREDITS CO-OCCURRING MENTAL HEALTH DISORDERS

Students explore co-occurring disorders in addictions and mental health by examining the current perspectives of mental health in the helping professions. Students focus on the identification, definition, diagnostic criteria, and assessment and evaluation of psychological disorders. An emphasis is placed on the continuum that exists between normal and abnormal behavior by examining biological, psychological and socio-cultural causal factors as they relate to adults and children with addictions. Students explore screening, assessment and treatment strategies. Prerequisite: Completion of ENGL 0810 or equivalent placement test score, and completion of ADDN 1000, ADDN 1016 and CNSL 2300.

LCCC Catalog 2016-2017

2 CREDITS

150

ADDN 2970 FIELD EXPERIENCE IN ADDICTIONOLOGY

Students gain practical knowledge and experience in the field and of Addictionology by participating in on-the-job training. This 90 hour field experience is scheduled, structured, and supervised by a certified or licensed professional in the addictions field. In addition to the field experience, students meet for a weekly seminar with their instructor. Students perform other job duties as assigned. Instructor permission is required for site choice. Prerequisite: Completion of ENGL 0810 or equivalent placement test score, and completion of ADDN 1000, ADDN 1016, CNSL 2300.

Agriculture

AGRI 1010 3 CREDITS COMPUTERS: AGRICULTURE

Students develop skills in the use of computers in agriculture and agribusiness. Students develop computer literacy, practical application and evaluate industry standard hardware and software.

AGRI 1030 3 CREDITS INDUSTRIES IN AGRICULTURE

Students examine multiple aspects of the agriculture industry as well as the purpose and philosophy of higher education as it relates to the different sectors of the agriculture industry.

AGRI 1500 2 CREDITS INTRODUCTION TO RODEO

Students will be introduced to the history, culture, and business of rodeo. Students acquire knowledge about rodeo organizations, rough stock, timed events, rodeo production, and professional rules and policies.

AGRI 1510 RODEO LIVESTOCK

2 CREDITS

A course that introduces the student to the business of rodeo livestock. Students acquire practical, hands-on experience with livestock leasing, purchasing, sorting, training, and management. Students also gain rodeo production experience from the stock contractor's point of view and in accordance with NIRA rules regarding rodeo livestock.

AGRI 2500 2 CREDITS RODEO PRODUCTION I

This course is designed to provide handson experience in the actual production of a rodeo event. Students gain information concerning the legal, financial, and promotional aspects of rodeo production. Students complete projects dealing with livestock procurement, advertising, sponsorship, and rodeo event financial reports. Prerequisites: Completion of AGRI 1500 and AGRI 1510.

2 CREDITS AGRI 2510 RODEO PRODUCTION II

This course is the second in the series of rodeo production classes. Students acquire knowledge about advanced rodeo production methods including computerized rodeo entry systems, multimedia advertising, and computerassisted rodeo secretarial methods. Prerequisites: Completion of AGRI 2500 and AGEC 2020.

2 CREDITS

Agriculture – Agricultural Economics

AGEC 1010 3 CREDITS AGRICULTURE ECONOMICS I

Students explore the impact of governmental policy on society and the agriculture industry in this introductory course which focuses on the role of agriculture in a market based on economy. Students develop an understanding of how the U.S. food and fiber system is influenced by the economic problem of scarcity. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

AGEC 1020 3 CREDITS AGRICULTURE ECONOMICS II

A study of agriculture as a business and its place in the general economy including farm production functions, marketing, costs, agricultural policy, and consumption. Prerequisite: Completion of AGEC 1010.

AGEC 2010 3 CREDITS FARM-RANCH BUSINESS RECORDS

A course in economic principles, business methods and science as applied to organization and operations. Farm budgets, cost accounting, and record analysis are included as are measurements of size of business and rate and efficiency of operation. Prerequisite: Completion of MATH 0900 or equivalent placement test score.

AGEC 2020 4 CREDITS FARM-RANCH BUSINESS MANAGEMENT

Students evaluate basic tools of management and decision making and apply those to problems found in agribusiness management. Exploration of the four functions of management is used to provide an understanding of the complex issues a manager faces on a daily basis. Students also discover the process of recourse acquisition and resource distribution important in the farm and ranch.

AGEC 2395 3 CREDITS CAPSTONE COURSE FOR AGRICULTURE MAJORS

Students consolidate the entire spectrum of their educational experience into the development of a management information system for an existing farm or ranch operation. The students select a farm/ranch property, secure public information, then develop the business plan for a complete year's operation. The students present their project to the landowner for their review upon completion of the capstone project. Prerequisites: Students graduating from the agriculture program and approval of their advisor.

AGEC 2400 3 CREDITS FARM CREDIT AND FINANCE

A practical introduction to agriculture and personal finance. The analysis of financial conditions, control of costs, and the computation of interest. Includes a study of the sources of credit available for agriculture. Prerequisites: Completion of ENGL 0810 and MATH 0900 or equivalent placement test score.

AGEC 2500 3 CREDITS AGRICULTURAL TRADE POLICY

Students are introduced to the basic trends in agriculture and related trade policies beginning with a review of early agricultural legislation. Students become knowledgeable about domestic and foreign policy as it relates to global agricultural and agribusiness issues. Students consider multicultural differences and their effect on agricultural trade and policy along with alternative public policy options and opinions.

Agriculture – Agroecology

AECL 1000 AGROECOLOGY

4 CREDITS

Students explore conventional and sustainable agriculture systems and compare those systems in both developed and developing countries. Ecological interactions within food producing systems are explored with an emphasis on sustainable agriculture systems. Students learn the basics of biological components and their interactions. Sustainable agriculture is studied in depth, incorporating agriculture into the three pillars of sustainability.

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AECL 2010 4 CREDITS THE ECOLOGICAL WEB: SOILS

An introduction to soil science including soil ecology, the formation of soils, the biological properties of the soil affecting plant growth, and the different compositions of fertilizers and their interactions with soils and plants. This course typically consists of three hours of lecture and two hours of laboratory weekly. Prerequisites: Completion of ENGL 0810 and MATH 0900 or equivalent placement test score.

AECL 2025 4 CREDITS ECOLOGICAL WEB: HORTICULTURAL SCIENCE

A course examining the propagation, growth, development, and utilization of horticultural plants. Students gain an understanding of plant classification, anatomy, interactions with the environment, and genetic improvement through lecture presentations and laboratory experiences. Prerequisite: Completion of BIOL 1000 or BIOL 1010.

Agriculture – Animal Science

ANSC 1010 4 CREDITS LIVESTOCK PRODUCTION

A course introducing students to the scope of the livestock industry, and management of beef cattle, sheep, dairy cattle, horses, swine, and poultry. Students acquire introductory knowledge of breeding, genetics, reproduction, and nutrition of domestic animals in addition to wool, meat, dairy, and poultry products.

ANSC 1100 2 CREDITS ARTIFICIAL INSEMINATION

A study of breeding principles and their value to the livestock producer. Each student in this course will be given instruction in A.I. technology including heat detection and disease control.

ANSC 1200 2 CREDITS LIVESTOCK FITTING AND SHOWING

A course defining scope of livestock fitting and showing. It is designed to give the student the ability to fit and show cattle and sheep. Students are involved with the actual fitting practices and entries for show as well as the show ring, and they participate in breaking and training of livestock for show. The course is primarily a laboratory experience.

ANSC 1210 2 CREDITS LIVESTOCK JUDGING I

A study of the selection of domestic livestock based on type, conformation, breeding performance, and production records. Development of and emphasis on oral communication skills will be stressed.

ANSC 1220 2 CREDITS LIVESTOCK JUDGING II

Continuation of ANSC 1210. Prerequisite: Completion of ANSC 1210.

ANSC 1260 2 CREDITS LIVESTOCK MERCHANDISING

Students gain experience in organizing and managing a livestock auction through hands-on experiences. Students work with consigners to advertise, set up sale facilities, and facilitate proper transport regulations pertaining to interstate and intrastate travel for livestock.

ANSC 2020 4 CREDITS FEEDS AND FEEDING

A study of nutrition fundamentals and proper livestock management, including balancing rations and field maps to provide information and techniques of formulating feeds advised for production needs of the community. Prerequisites: Completion of ENGL 0810 and MATH 0900 or equivalent placement test score.

ANSC 2230 2 CREDITS LIVESTOCK JUDGING III A continuation of ANSC 1220.

Prerequisite: Completion of ANSC 1220.

ANSC 2300 3 CREDITS PLANT AND ANIMAL GENETICS

A study of the principles of genetics and their application to livestock and crop production. Applications of reproduction, selection, inbreeding, and crossbreeding in livestock production are studied. Students plan and evaluate an improvement program designed to direct genetic changes in livestock. The course introduces students to methods of manipulating reproduction within livestock management systems. Prerequisite: Completion of ENGL 0810 or MATH 0970, or equivalent placement test scores.

ANSC 2320 3 CREDITS LIVESTOCK HEALTH AND MANAGEMENT

Students develop a basic knowledge of commonly occurring livestock diseases: identification, prevention, and treatment. Through a hands-on approach, students develop knowledge of proper housing, disinfecting, and vaccinating livestock using USDA and AVMA guidelines and regulations. Additionally, students study animal anatomy and physiology in order to understand the diseases and their potential impact on different body systems. Prerequisite: Completion of ANSC 1010.

Agriculture – Crop Science

CROP 1151 3 CREDITS PESTS AND PESTICIDES

A course in the management and physiological principles involved in the control of economically important farm, ranch, and range weeds and pests. Structure, activity, and behavior of pesticides and growth regulations are included. Prerequisite: Completion of ENGL 0810 and MATH 0970, or equivalent placement test scores.

CROP 2000 4 CREDITS PLANTS, AGRICULTURE, AND CIVILIZATION

A course in plant identification; the control of common weeds, plants, and other undesirables; and a thorough study of agriculture chemicals and their proper uses. The distribution, botany, and culture of legumes and cereals are included. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

CROP 2200 3 CREDITS FORAGE CROP SCIENCE

Production, presentation, and quality of principal hay, silage, and pasture crops are studied as well as effects of environmental factors such as physiology, development, and yield of important forage crops. The importance of forage as supplements to livestock enterprises, as soil-improving crops, irrigated and dry land forages, and production with emphasis on characteristics of important grasses and legumes are included. Prerequisite: Completion of ENGL 0810 and MATH 0970, or equivalent placement test scores.

Agriculture – Range Management

RGMG 2000 PRINCIPLES OF RANGE MANAGEMENT

A study of the basic principles and practices of range management as they apply to the western and northwestern regions. The relationship of range management to livestock production, wildlife management, and forage production and their impact as inherent land use are covered. Management principles for private and public rangelands are important to plants and rangeland communities. Prerequisite: Completion of ENGL 0810 and MATH 0900, or equivalent placement test score.

3 CREDITS

152

AIR 2010 1.5 CREDITS THE EVOLUTION OF AIR AND SPACE POWER I

Students examine the history of air and space power in the US with a particular focus on leadership, learn the Air Force Core Values, and continue to develop their communication skills. Leadership Laboratory is an additional component of the course. Prerequisites: Completion of AIR 1010 and AIR 1020.

AIR 2020 1.5 CREDITS THE EVOLUTION OF AIR AND SPACE POWER II

This course is a continuation of AIR 2010 The Evolution of Air and Space Power I. Students examine the history of air and space power in the US with a particular focus on leadership, learn the AIR Force Core Value, and continue to develop their communication skills. Leadership Laboratory is an additional component of the course. Prerequisite: Completion of AIR 2010 or instructor approval.

AIR 1010 1.5 CREDITS FOUNDATIONS OF THE AIR FORCE

A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force Officer opportunities, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. Prerequisite: Must meet Air Force requirements medically and physically before they become contracted. Must maintain a 2.0 cumulative GPA.

AIR 1020 1.5 CREDITS THE AIR FORCE TODAY II

This is a survey course designed to introduce students to the United States Air Force Reserve Officer Training Corps. Featured topics include mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. Prerequisite: Must meet Air Force requirements medically and physically before they become contracted; must maintain a 2.0 cumulative GPA.

American Studies

AMST 2010 INTRODUCTION TO AMERICAN STUDIES

This course introduces students to the interdisciplinary study of American culture. Students explore themes, values, and ideas that continue to resound throughout our cultural experience. focusing on individuals, ideas, and events that have defined what it means to be an American in context of past and current historical events. In the field of American studies, students develop an understanding of American cultures identities, artifacts, landscapes, and institutions from a variety of viewpoints, building layers of meaning and interpretation for the objects studied. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

3 CREDITS

AMST 2110 3 CREDITS CULTURAL DIVERSITY IN AMERICA

This course is designed to examine multicultural relations in the United States by exploring how common elements of humanity bind together individuals and groups of people. Students gain an understanding of issues related to social interaction, the concept of race, social class, age, gender, sexual orientation, and the sociology of minorities. Students also acquire an awareness of the constraints and motivations of many diverse populations including Native Americans, Hispanic-Americans, African-Americans, and Asian-Americans. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

Anthropology

ANTH 1100 4 CREDITS INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY

An introductory course in physical/ biological anthropology in which students are expected to become knowledgeable about and gain an understanding of mankind's primate background, human osteology, human genetics and variation, fossil primates, and fossil man. An archaeological overview of cultural evolution in the Old World from fossil man to the peopling of the New World are presented. Students engage in experiments and other exercises during weekly laboratory sessions and demonstrate a working knowledge of the scientific method.

ANTH 1200 3 CREDITS INTRODUCTION TO CULTURAL ANTHROPOLOGY

An introductory course in cultural anthropology. Students demonstrate knowledge of basic concepts in social and cultural anthropology including ecological-economic systems, social and political organization, language, magicoreligious beliefs, and culture change.

ANTH 1300 3 CREDITS INTRODUCTION TO ARCHAEOLOGY

Students become knowledgeable about the ways in which prehistoric cultural remains provide an understanding of the shared cultural life ways of humankind. In addition to surveying basic archaeological theory, field methods and the laboratory analysis of field data, students learn about the evolution of culture, the growth and development of early Old World and New World civilizations, how cultures function, why they change, what similarities they shared broadly among cultures, and why cultures differ from one another. Prerequisite: Completion of ENGL 0910 or equivalent placement test score.

ANTH 2210 3 CREDITS NORTH AMERICAN INDIANS

Students survey American Indian cultures north of Mexico at the time of the first contact with Europeans. Students acquire and demonstrate knowledge of detailed ethnographic and ethnohistorical comparisons of selected North American Indian cultural areas.

Army

ARMY 1010 3 CREDITS LEADERSHIP AND PERSONAL DEVELOPMENT

Students explore basic leadership application through classroom instruction, leadership training and mentorship, adventure exercises and camaraderie. Students explore and participate in managerial operations and military techniques. Students apply military customs and techniques through physical and mental training.

ARMY 1020 3 CREDITS INTRODUCTION TO LEADERSHIP

As a continuation course to ARMY 1010, students further explore basic leadership application through classroom instruction, leadership training and mentorship, adventure exercises and camaraderie. Students explore and participate in managerial operations and military techniques. Students apply military customs and techniques through physical and mental training.

ARMY 2010 3 CREDITS FOUNDATIONS OF LEADERSHIP

Students learn to apply the intermediate principles of leadership and small unit management applicable to all careers through instruction in land navigation, Leadership Laboratory, field training exercises, troop leading procedures, operations orders, and cultural awareness.

ARMY 2020 FOUNDATIONS OF TACTICAL LEADERSHIP

Students apply the intermediate principles of leadership and small unit management applicable to all careers through instruction in land navigation, Leadership Laboratory, field training exercises, U.S. Army customs, courtesies and career opportunities, and various leadership dimensions.

Art

ART 1000 GENERAL ART

3 CREDITS

3 CREDITS

A basic introduction to art through various art media. Students explore and experiment with different art materials and techniques by creating and developing a number of basic projects. For non-art majors and pre-school and elementary education majors.

ART 1010 3 CREDITS GENERAL ART: HISTORY

This course is not equal to or a replacement for the required art history courses for art majors. This is a onesemester, lecture-based introduction to the theories, techniques, concepts, and materials of art. Students define and describe the constructs underlying fine art such as visual literacy, themes of art, use of light and color, principles of design, and describe how these constructs are manifested in such art forms as sculpture, painting, drawing, ceramics, video, photography, architecture, etc. Students describe ways in which works of art exemplify principles and techniques of various media. Students also explore relationships between these concepts and sequential art history spanning ancient to contemporary movements. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

ART 1050 3 CREDITS BEGINNING DRAWING

Students investigate the visual vocabulary required in drawing and gain an understanding of the basic form and techniques used to render realistic as well as expressive drawings. Students use a variety of media such as pencil, conte, charcoal, ink and pastels.

ART 1060 DRAWING II

In this continuation of ART 1050, students practice designing more sophisticated solutions to studio problems, and approaching alternative materials. Through classroom critiques, students analyze multiple solutions to drawing problems. Prerequisite: Completion of ART 1050.

ART 1110 3 CREDITS FOUNDATION: TWO DIMENSIONAL

Students explore the principles of art structure through a series of exercises in the visual organization of line, plane, value, mass, texture, shape, movement, and color. Students work in a studio environment and discover individual solutions to two dimensional challenges. This course is offered every fall. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

ART 1120 3 CREDITS FOUNDATION: THREE DIMENSIONAL Students explore the principles of art structure through a series of exercises in the visual organization of line, plane, value, mass, texture, shape, space, movement, and color. Students work in a studio environment and discover individual solutions to three dimensional challenges. This course is offered every Spring.

ART 1130 3 CREDITS FOUNDATION: COLOR

Students explore the principles of art structure through a series of exercises in the visual organization of color. Students work in a studio environment and discover individual solutions to color theory challenges.

ART 1250 3 CREDITS WATER-BASED MEDIA I

Students practice a wide variety of technical processes with water-based media and develop their compositional skills. Through classroom critiques, students analyze multiple solutions to painting problems.

ART 1260 3 CREDITS WATER-BASED MEDIA II

In this continuation of ART 1250, students gain knowledge about color theory and experiment with color palettes to produce desired effects. The historically significant works of contemporary painters and old masters are reflected in student projects. Prerequisite: Completion of ART 1250.

3 CREDITS

ART 1510 3 CREDITS HANDBUILT CERAMICS

An introductory course in basic ceramic techniques for sculpture production designed especially for nonmajors. Students apply technical knowledge to form, glaze, and fire sculpture and trace historical trends in sculpture and contemporary sculptors. To practice design concepts, students produce a freestanding form, a figurative sculpture, a series of multiple form sculptures, and an independent project. (This course does not fulfill LCCC's humanities/fine arts requirement.)

ART 2010 ART HISTORY I

3 CREDITS

Students acquire introductory knowledge of the major arts of the world from pre-history to medieval, including prehistoric European, ancient Near Eastern, Egyptian, Aegean, Greek, Etruscan, Roman, African, Chinese, Japanese, Indian art and art from the Americas, through the Middle Ages. Also included is art from the Byzantine, Medieval, Romanesque, Gothic, Judaic, Christian, and Islamic movements. Prerequisites: Completion of ENGL 0810 or equivalent placement test score.

ART 2020 3 CREDITS ART HISTORY II

Students acquire introductory knowledge of the major arts of the world from the Renaissance, Baroque, and Rococo periods to the modern and post-modern eras, including the arts of Africa, China, Japan, Pacific Island cultures, and the Americas. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

ART 2050 3 CREDITS LIFE DRAWING I

This course provides instruction for drawing the human form. Working from clothed and nude models, students demonstrate an understanding of line, value, composition, realistic interpretation, self-expression, and the human form as art. Prerequisite: Completion of ART 1050 or equivalent skills. Instructor approval required.

ART 2060 3 CREDITS LIFE DRAWING II

In this continuation of ART 2050, students expand and refine their skills in drawing the human form. Working from clothed and nude models, students demonstrate an understanding of line, value, composition, realistic interpretation, self-expression, and the human form as art. Prerequisite: Completion of ART 2050. Instructor approval required.

ART 2065 LIFE DRAWING III

3 CREDITS

As a continuation of ART 2060. this course allows students further opportunity to translate the threedimensional human form into twodimensional compositions by improving their abilities in the areas of accurate proportions and forms, illusion of light, and the addition of details. Students are encouraged to use additional media to become more expressive in their individual styles and to analyze their strengths and weaknesses. Prerequisite: Completion of ART 2060. Instructor approval required.

ART 2075 **ILLUSTRATION**

3 CREDITS

In this course, students apply elements of image making, concept, style, composition, and the design process to the broad field of illustration. Students use traditional and nontraditional art materials and approaches (including digital) in the creation of illustrative images in a range of styles and formats. Students use and enhance an overall visual vocabulary, including cartooning, comic art, photography, drawing/ painting, type, the elements/principles of design, and digital imaging.

ART 2080 DRAWING III

3 CREDITS

In this continuation of ART 1060, students create a thematic series of works and present them with a written descriptive analysis. Students prepare their work for exhibition and build a portfolio. Prerequisite: Completion of ART 1060.

ART 2090 **3 CREDITS** INTRODUCTION TO PRINTMAKING

Students gain skills in the use of materials and techniques for creating original art through the "indirect process" of printmaking. Students also design the surface used to print the image(s). Art projects will include relief printing and monoprinting.

ART 2210 **3 CREDITS BEGINNING PAINTING**

Students utilize a variety of painting techniques and art terms to produce a portfolio of work based upon design elements and principles. The historically significant works of contemporary painters and old masters are reflected in student projects. Topics include color and light phenomena in nature and in painting. Students are encouraged to produce unique work and to understand their artistic intentions.

ART 2220 PAINTING II

In this continuation of ART 2210. students continue to practice a variety of painting techniques and to refine their understanding of concepts. Students expand upon their personal strengths and increase their ability to recognize stylistic trends. (Students expecting to work in oils must consult with instructor.) Prerequisite: Completion of ART 2210.

ART 2230 PAINTING III

3 CREDITS

In this continuation of ART 2220, students develop advanced perceptual skills, improve their technical abilities. and gain a deeper understanding of and concern for the content of their work. Students also generate their own personal objectives and critique their work according to the elements and principles of design. Prerequisite: Completion of ART 2220.

3 CREDITS ART 2235 ADVANCED PAINTING

Students develop an understanding of the "process" of creating paintings within the parameters of a variety of painting techniques. Individual solutions to group assignments are discussed within classroom critiques. Prerequisites: Instructor approval required. Drawing and painting skills are required.

ART 2260 **3 CREDITS** WATER-BASED MEDIA III

In this continuation of ART 1260, students develop a portfolio of work with a thematic/stylistic cohesiveness and present a written descriptive analysis. Students prepare their work for exhibition. Prerequisite: Completion of ART 1260.

ART 2310 SCULPTURE I

An introductory course in additive and subtractive construction of threedimensional form. Students trace the historical trends in sculpture, recognize contemporary sculptors, and develop a vocabulary that can be used in discussing sculpture. Emphasis is on the presentation of studio problems and their solutions through personal expression.

ART 2320 SCULPTURE II

A course in the study of threedimensional form building upon knowledge gained in ART 2310. Investigation continues in the varied techniques of sculpture including welded metal, stone carving, and clay working. Students manipulate the form and imagery in representational and nonrepresentational art work. Emphasis is on current sculptural applications and the work of contemporary sculptors. Prerequisite: Completion of ART 2310.

3 CREDITS ART 2350 METALS I

An introductory course in basic jewelrymaking techniques. Students acquire technical skills in cutting, piercing, finishing, soldering, bezel stone setting, and texturing metal with an emphasis on design.

3 CREDITS

ART 2360 **3 CREDITS** METALS II

A continuation of ART 2350. Students gain knowledge and technical skill in fabrication, chain making, hinges and casting techniques used in jewelry design. Prerequisite: Completion of ART 2350.

ART 2370 **3 CREDITS** METALS III

A continuation of ART 2360. Students acquire technical skill in repousse, chasing and forging. Students also develop skills in metal working and jewelry design. Prerequisite: Completion of ART 2360.

1 CREDIT ART 2390 TILE MAKING I

An intensive investigation into the historical, technical, and aesthetic production of handmade ceramic tiles. Through lectures, slide exhibits, and research into historical trends and individual tile makers, students acquire technical knowledge about mold-making for production and fine art tiles. Knowledge about aesthetic issues concerning tile use and functions are demonstrated by the students in the form of final projects and a journal.

ART 2391 **1 CREDIT** TILE MAKING II

An intensive investigation into production tile making. Following lecture, slide exhibits, and research, students produce molds. The focus is on the creation of a finished tile installation plan, including murals, floors, and architectural ceramics. Prerequisite: Completion of ART 2390.

3 CREDITS ART 2410 **CERAMICS I**

Students learn the fundamentals of pottery construction, glazing, and firing techniques. Students apply skills to hand-building, wheel-throwing and surface methods. An emphasis is on the formative stages of the clay-working process.

ART 2420 **CERAMICS II**

Students focus on wheel-throwing pottery and evaluation of completed clay forms. Students explore technical information concerning clays, glazes and firing processes as well as historical trends in pottery. Prerequisite: Completion of ART 2410

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3 CREDITS

3 CREDITS

3 CREDITS

ART 2430 CERAMICS III

3 CREDITS

A continuation of ART 2420 with emphasis on the development of pottery form and a vocabulary that can be utilized in discussing ceramics. Students become knowledgeable about contemporary clay-working artists. Prerequisite: Completion of ART 2420.

ART 2440 CERAMICS IV

3 CREDITS

4 CREDITS

3 CREDITS

Students focus on the study of raw materials and formulating working clay bodies and glazes in this advanced ceramic course. Students identify use of chemicals as applied to pottery and engage in study of kiln firing techniques and glaze effects. Students also practice glaze making and kiln firing. Prerequisite: Completion of ART 2430.

Astronomy

ASTR 1050 SURVEY OF ASTRONOMY

Students gain a greater understanding of astronomy through direct observation, laboratory application, and lecture. Students compare the planets and satellites in our solar system; sort out the life, birth, and death of stars; and recognize unique objects such as quasars and black holes. On-campus observing sessions will be scheduled at night and are required for on-campus students. Online students complete observations with binoculars. Prerequisite: Completion of MATH 1000 and ENGL 0810, or equivalent placement test scores.

Automotive Body Repair

AUBR 1500 AUTO BODY HAND/ HYDRAULIC TOOLS

This course is an introduction into the auto body repair field, focusing on hand, power, and hydraulic tools common to the trade. Students identify different tools available for repairs and demonstrate their proper and safe usage through various shop projects including vehicle trim and hardware identification and removal, as well as exterior panel replacement. Students gain skill in determining the proper selection and use of personal protection equipment required for hazardous materials found in body/paint shops.

AUBR 1510 3 CREDITS INTRODUCTION TO AUTO BODY REPAIR

An introductory course in auto body repair. Students develop knowledge of basic procedures used in auto body repair. Students gain skill in and knowledge of shop safety, tools and equipment, metal straightening basics, welding basics, trim and accessories, and painting and refinishing procedures.

AUBR 1520 3 CREDITS COLLISION DAMAGE APPRAISING

Students acquire and demonstrate knowledge of different estimating systems, manuals, and procedures used in the auto body repair field. Students prepare both handwritten estimates and computer-generated estimates using P-page logic and abbreviations. Students gain knowledge in all aspects of the estimating process including customer service, visual analysis, supplements, organization, and insurance influences.

AUBR 1540 3 CREDITS AUTO BODY WELDING

Students gain the knowledge and skills necessary to identify the different types of metal used in today's vehicle construction and determine the limitations of different alloys. Students explore the different welding equipment and techniques available to repair shops and gain skill in performing the weld styles common to body repair and panel replacement.

AUBR 1550 3 CREDITS AUTO BODY REPAIR I

Students examine the fundamentals of collision repair, straightening nonstructural steel, and moveable glass replacement. Students gain skill in identifying the characteristics of different metals and plastic fillers and demonstrate industry repair procedures for dent removal.

AUBR 1560 AUTO BODY REPAIR II

This course is a continuation of AUBR 1550. Students gain the knowledge and skills necessary to identify and demonstrate repair procedures for the different types of plastics and aluminum used in today's vehicle construction. Students also explore the use of techniques for adhesive bonding.

3 CREDITS

AUBR 1570 3 CREDITS AUTO BODY REPAIR III

This course is a continuation of AUBR 1560. Students continue to gain knowledge and skill development in repair procedures for damaged automotive sheet metals and plastics. In addition, students explore new vehicle materials and designs, safety features, park-assist systems, collision warning systems, and alternative fuel systems. Prerequisite: Completion of AUBR 1560.

AUBR 1580 3 CREDITS AUTO BODY REPAIR IV

This course is the last in the Auto Body Repair series of courses. Students explore safe working procedures for auto body repairs on high voltage vehicles. Students also gain knowledge and skill in identifying different foam applications and their intended purpose in modern vehicles. Prerequisite: Completion of AUBR 1570.

AUBR 1600 3 CREDITS AUTO BODY UPHOLSTERY

Students use an industrial sewing machine to demonstrate common stitch types. Students differentiate the materials used in automotive upholstery. Students demonstrate basic seat and interior panel construction.

AUBR 1710 3 CREDITS FRAME AND CHASSIS I

This course is an introduction into frame designs, unibody structural parts, and steering/suspension components. Students examine different types of measuring and straightening equipment for structural parts and demonstrate their proper and safe usage. Students also identify the common types of suspension design and the parts contained in each.

AUBR 1720 3 CREDITS FRAME AND CHASSIS II

This course is a continuation of AUBR 1710. Students demonstrate structural damage analysis and repair techniques for steel and aluminum structural parts. Students gain the skills necessary to identify, repair properly, and work safely around restraint system components. Students also explore heating, ventilation, and air-conditioning components commonly damaged in front-end collisions. Prerequisite: Completion of AUBR 1710.

AUBR 1810 3 CREDITS COLLISION DAMAGE REPAIR I

Students examine procedures for repairing extensive body damage including welded or bonded outer body panel and structural parts replacement. Previous auto body repair and welding experience recommended.

AUBR 1820 3 CREDITS COLLISION DAMAGE REPAIR II

This course is a continuation of AUBR 1810. Students gain experience performing structural parts repair, replacement, and sectioning following industry-approved procedures. Students explore welding techniques for advanced high-strength steels, as well as replacement procedures for stationary glass. Prerequisite: Completion of AUBR 1810 and AUBR 1540.

AUBR 1910 AUTO PAINT I

3 CREDITS

This course is an introduction to vehicle refinishing. Students examine different types of refinishing equipment and materials designed to duplicate factory finishes. They develop skills in surface preparation, masking vehicles, and application techniques for different refinish products.

AUBR 1920 AUTO PAINT II

4 CREDITS

This course is a continuation of AUBR 1910. Students acquire and demonstrate basic knowledge and skill in spot repairs, color matching, paint mixing, and overall refinish procedures. Students also examine the identification, causes, and corrections for common paint problems. Prerequisite: Completion of AUBR 1910.

AUBR 1930 AUTO PAINT III

4 CREDITS

This course is a continuation of AUBR 1920. Students exhibit a greater proficiency in the skills demonstrated in AUBR 1910 and 1920. Students explore multi-stage, and water-borne paint systems, as well as detailing and postrepair vehicle inspections. Prerequisite: Completion of AUBR 1920.

AUBR 1945 3 CREDITS INTRODUCTION TO AUTOMOTIVE CUSTOM PAINT

This course is an introduction to the paints, techniques, and equipment used in automotive custom painting. Students examine color theory, paint systems, masking/stencil techniques, and freehand airbrush designs through instructor-guided projects. Students gain knowledge and skill in the control, proper use, disassembly, and cleaning of an airbrush. Students also demonstrate proficiency in the use of pinstriping brushes. Students are required to provide their own dual-action airbrush.

AUBR 1950 1-15 CREDITS PRACTICUM (AREA OF SPECIALTY)

Practice courses are supplemental in nature and aligned to a particular course contained in a regular instructional program. These courses list the course titles they are augmenting plus the word "practicum." They are designed to enhance the learning process by providing additional, supervised handson experiences. A student may take up to 15 credit hours in practicum courses as approved by the instructor.

AUBR 2500 3 CREDITS ADVANCED AUTO BODY UPHOLSTERY

A continuation of AUBR 1600, emphasizing advanced techniques of automotive interior re-upholstering. Students demonstrate procedures for the care and maintenance of upholstery equipment. students demonstrate pattern construction and re-upholstering techniques for seats, door panels, interior trim panels and headliners. Prerequisite: Completion of AUBR 1600.

s Automotive Technology

AUTO 1500 3 CREDITS BASIC AUTO MECHANICS

Students gain and demonstrate knowledge and skills to understand the automotive service industry and to perform basic preventive maintenance, service procedures, and engine repair.

AUTO 1510 4 CREDITS ENGINE SYSTEM FUNDAMENTALS

Basic introduction to engine operation, design, and service procedures. Students demonstrate precision measuring, engine disassembly and reassembly, diagnosis of engine problems, cylinder head reconditioning, and parts analysis.

AUTO 1600 4 CREDITS FUEL SYSTEMS I

Students demonstrate the skills necessary for diagnoses and repair of various types of today's fuel delivery and electronic injection systems in this ASE certified course. Students work towards completing ASE/NATEF task lists for Engine Performance. Prerequisite: Completion of AUTO 2560.

AUTO 1690 3 CREDITS MANUAL POWER TRAIN FUNDAMENTALS

This course will cover the theory of 3-speed and 4-speed manual transmissions. Students gain practical experience in the overhaul of manual transmissions, clutches, related parts, and specialized equipment. Proper use of hand tools and safety in the lab will be emphasized.

AUTO 1730 4 CREDITS AUTOMATIC TRANSMISSIONS

This course will cover the theory of automatic transmissions. Students gain practical experience in the overhaul of automatic transmissions in popular use today. Proper use of hand tools and specialized equipment and safety in the lab will be emphasized.

AUTO 1740 BRAKE SYSTEMS

Students learn the theory, service, and repair of automotive braking systems and their components. Emphasis is on hydraulic and anti-lock brake theory; the repair of service booster units, master cylinders, and wheel cylinders; caliper rebuilds; and drum and rotor service. Prerequisite: Completion of AUTO 1765 or DESL 1540.

3 CREDITS

AUTO 1760 3 CREDITS HEATING AND AIR CONDITIONING

Students learn basic heating and air conditioning theory. Students diagnose, repair, and recharge air conditioning systems to OEM specifications. Students diagnose and repair heating and air conditioning automatic systems.

AUTO 1765 5 CREDITS AUTOMOTIVE ELECTRICAL

Students learn the basic theory of electricity, how to read and interpret wiring diagrams, and how to diagnose and repair individual electrical circuits on vehicles. These circuits include lights, horn, electric windows, power seats, electric defrosters, and other electrical circuits installed on vehicles.

AUTO 2550 4 CREDITS AUTO ALIGNMENT AND SUSPENSION

Students learn suspension and alignment theory. Suspension systems will be diagnosed, measured, and repaired to OEM specifications. Wheel alignments will be performed on vehicles and adjusted to OEM specifications. These alignments include 4-wheel center point adjustments.

AUTO 2560 3 CREDITS AUTOMOTIVE IGNITION SYSTEMS

Students learn ignition theory and diagnosis and repair of various computerized and noncomputerized ignition systems. Emphasis is placed on developing a comprehensive understanding of all electrical components and systems with special emphasis on problem diagnosis.

Biology

BIOL 0900 2 CREDITS INTRODUCTION TO BIOLOGY

A preparatory science course in which students learn the skills necessary to complete transfer/college-level biology, zoology, or molecular biology classes. Skills to be mastered include critical and analytical analysis of scientific information, an understanding of scientific methods, and a review of basic chemistry and biology. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

BIOL 1003 4 CREDITS CURRENT ISSUES IN BIOLOGY

Students who are non-science majors may take this one semester course to examine central themes of biology--cell biology, genetics, evolution, ecology and scientific methodology--by focusing on current issues in biology and their interrelation to humans and the environment. Students participate in discussion and hands-on laboratory exploration of the content.

BIOL 1010 GENERAL BIOLOGY

4 CREDITS

Students examine the basic chemistry of living systems, cell structures and functions, energy relations including photosynthesis and cellular respiration, Mendelian and molecular genetics, molecular biology, population dynamics and evolutionary theory. Students perform experiments during regular laboratory sessions and demonstrate a working knowledge of the scientific method. Prerequisite: Completion of MATH 0980 and ENGL 0810, or equivalent placement test scores.

BIOL 1390 4 CR SCIENTIFIC RESEARCH I

4 CREDITS

An introduction to concepts used in a biological research environment. Students read scientific literature, perform computer-based literature searches, engage in experimental design and data collection, conduct statistical analyses, write a scientific paper, and design a poster. Students may have the opportunity to present their work at a scientific conference. Prerequisite: Completion of BIOL 1010 (with a grade of B or better) or instructor consent.

BIOL 2022 ANIMAL BIOLOGY

4 CREDITS

Students examine the anatomy, physiology, ecology and evolution of animal biodiversity. Students demonstrate the ability to compare, contrast, and classify animals based upon shared derived characteristics. Through lectures, discussions, reading and writing assignments, and other activities, students discover the biodiversity of Kingdom Animalia and consider the importance of this biodiversity to themselves, humanity and the biosphere. Prerequisite: BIOL 1010.

BIOL 2023 4 CREDITS BIOLOGY OF PLANTS AND FUNGI

Students gain knowledge of how plants and fungi have evolved, what ecological roles they play in the world, and how species are economically important to humans. Students also contrast and classify plants and fungi and related organisms. This course fulfills requirements for a science laboratory course. This course is offered during fall semesters. Prerequisite: Completion of BIOL 1010.

BIOL 2320 TROPICAL ECOLOGY

Students develop an understanding of ecological principles on a global scale through field exercises, group discussions, research projects, and written assignments. Employing the scientific method in collaboration with students and instructors from another country, students examine tropical ecology as they engage in real research projects, on-the-ground conservation, and cultural interactions. Developing biological fundamentals, students delve into the evolution, behavior, population, community and ecosystem ecology, biogeography, physiology, and organismal biology in this region. Besides tuition, students pay fees that may include but are not limited to airfare, room and board, classes, local tours, and other activities. Prerequisite: Completion of MATH 0900 or equivalent placement placement test score.

BIOL 2390 4 CREDITS SCIENTIFIC RESEARCH II

This course is a continuation of BIOL 1390. Motivated students continue to perform scientific research at a higher level than BIOL 1390. Research II students work more independently in all aspects of research, including designing experiments, collecting data, analyzing results, and writing scientific literature. Research II students provide leadership for a small group of Research I students, being a "project leader" for an experiment. Prerequisite: Completion of BIOL 1390.

BIOL 2400 GENERAL ECOLOGY

Ecology is the study of organisms and their interactions with other individuals, species, and their environment through space and time. In this introductory course, students develop a foundation in the theoretical, empirical, and analytic study of ecology. Students demonstrate an understanding of ecological principles through assigned readings, group discussions, review of current literature, exams, and written assignments. This course is offered during fall semesters.

BIOL 2410 2 CREDITS INTRODUCTION TO FIELD ECOLOGY

Prerequisite: Completion of BIOL 1010.

A field course in ecology. Students gain experience in the fundamental methods, techniques, and tools in ecological research including developing testable ecological hypotheses, experimental design, field sampling, data collection, and analysis. Students demonstrate knowledge gained through participation in field studies, readings, group discussions, and oral and written assignments. This course is offered during fall semesters. Prerequisite: Completion of or concurrent enrollment in BIOL 2400, or instructor approval.

4 CREDITS B

BIOL 2465 1-3 CREDITS RESEARCH PROBLEMS IN BIOLOGY

Students explore various methodologies employed in biological research, including experimental design, literature searches, data collection, analysis, and research report writing. Students may be required to present their work at public forum. Prerequisite: Consent of instructor.

BIOL 2470 4 CREDITS FIELD METHODS IN THE BIOLOGICAL SCIENCES

A field trip study of the biological characteristics of various locations. Students identify plants, animals, fungi, and/or protists native to the ecosystem as well as these organisms' adaptation to the ecosystem under study. Students utilize the scientific method and access primary literature to complete selfselected research projects. Besides tuition, students pay fees that may include but are not limited to airfare, room and board, classes, local tours, and other activities. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

BIOL 2485 1 CREDITS BIOLOGY SEMINAR

A seminar in which students meet with faculty members in order to review current topics in biology. Students gain a working knowledge and proficiency regarding a previously agreed upon topic. Students demonstrate their understanding of the seminar topic through group discussions, review of current literature, written and oral assignments, and laboratory reports. Prerequisite: Completion of BIOL 1010.

Business

3 CREDITS

BUSN 2000 3 CREDITS INTERNATIONAL BUSINESS

Students develop knowledge of the diverse cultural impact on multinational trade, marketing, finance, management, and government policies. Emphasis will be on the cultural dynamics of global business. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

Business Administration

BADM 1000 3 CREDITS INTRODUCTION TO BUSINESS

A study of the role of business in the American economy including ownership, organization, and management of business firms and an introduction to the basic functional areas of marketing, finance, production, and personnel. Consideration is given to the interrelationships among significant business activities. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

BADM 1020 3 CREDITS BUSINESS COMMUNICATION

Students study the principles, strategies, and techniques of effective written, oral, and digital business communication. Emphasis is placed on reviewing grammar and mechanics as students create successful written messages including e-mails, memos, letters, reports, and resumes. Students learn productive techniques to communicate professionally in an increasingly global, digital workplace. Prerequisite: Completion of ENGL 1010.

BADM 1021 1 CREDIT CUSTOMER SERVICE I

This introductory course will cover topics relevant to customer service such as response time, professional appearance and attitude, communications, telephone skills, and postal services.

BADM 2010 BUSINESS LAW I

3 CREDITS

Students explore a broad overview of business-related legal topics including the nature and sources of law, court systems, common law, statutory law, constitutional law, business torts, intellectual property, product liability, business ethics, and contracts. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

BADM 2030 3 CREDITS BUSINESS ETHICS

Students examine the nature of ethical behavior in business and its broader implications for society. They gain knowledge of the history of ethics in business, factors that impact the ethical decision-making process in business, and the global aspect of business ethics. Students also gain skills and strategies to develop and evaluate a business code of ethics as well as employee training programs on ethical business behavior. Prerequisite: Completion of BADM 1000 or advisor approval.

Chemistry

CHEM 1000 4 CREDITS INTRODUCTORY CHEMISTRY

In the study of introductory chemistry, students name chemical compounds; write chemical equations; explain and describe physical properties of gases, liquids, and solids; examine atomic structure, chemical bonding, and mass relationships and energy changes in chemical reactions; discuss properties of acids and bases, chemical equilibria, and nuclear chemistry; identify organic functional groups and relate them to biochemistry. Prerequisite: Completion of ENGL 0810 and MATH 0980, MATH 0990 or MATH 1000, or equivalent placement test score.

CHEM 1020 GENERAL CHEMISTRY I

Students develop problem-solving skills using the factor-label method, demonstrate proficiency in the use of the metric system, perform laboratory experiments, and use computers/ calculators to analyze experimental data. Students examine states of matter, properties of elements and compounds, inorganic nomenclature, atomic theory and structure, chemical bonding, quantitative chemical relationships and energy changes in chemical reactions, and gas laws and kinetic molecular theory. Prerequisite: Completion of or concurrent enrollment in MATH 1400 or equivalent placement test score. and completion of CHEM 1000 or one year high school chemistry is strongly recommended.

4 CREDITS

CHEM 1030 4 CREDITS GENERAL CHEMISTRY II

Students explain the properties of liquids, solids, and solutions; discuss the structures and properties of organic compounds; examine chemical kinetics, chemical equilibria and its applications, the chemistry of acids and bases, spontaneity of chemical reactions, electrochemistry, and nuclear chemistry. Students also perform laboratory experiments and use computers/ calculators to analyze experimental data. Prerequisite: Completion of CHEM 1020.

CHEM 1040 4 CREDITS CRIMINALISTICS: INTRODUCTION TO FORENSIC SCIENCE

An introductory course describing how the principles and techniques of the physical and natural sciences are practiced and applied in the crime laboratory to the analysis of crime scene evidence. Students examine the various types of physical evidence commonly encountered at crime scenes (e.g., fingerprints, hairs, fibers, drugs, glass, other chemicals, etc.), and apply comparison and identification techniques such as optical examination/ comparison, instrumental analysis, DNA typing and other chemical processes used for the analysis of physical evidence. Students apply knowledge about the use and application of forensic chemistry, forensic serology, forensic toxicology and other forensic sciences in solving criminal and civil law cases. Typically, this course has three hours of lecture per week and one laboratory session per week. No prerequisites.

CHEM 2110 GLASSBLOWING I

A course introducing students to the basic techniques of glassblowing. Students fabricate T-joints, butt joints, and ring seals; repair scientific glassware; and complete a glassblowing project.

1 CREDIT

CHEM 2320 3 CREDITS ORGANIC CHEMISTRY I

This is the first-semester course of a twosemester organic chemistry sequence. Students draw molecular orbitals and discuss bonding within molecules; name and write structures and reaction products for alkanes, alkenes, conjugated dienes, and radicals; discuss and distinguish stereoisomers; calculate freeenergy changes and apply equilibrium concepts to chemical reactions; write the products of substitution and elimination reactions; and interpret spectra. Prerequisite: Completion of CHEM 1030. Corequisite: Concurrent enrollment in CHEM 2325.

CHEM 2325 I CREDIT ORGANIC CHEMISTRY LAB I

This is the first-semester course of a two-semester organic chemistry laboratory sequence. Students perform laboratory techniques for the preparation, separation, purification, and characterization of organic compounds; and operate the NMR, FT-IR, GC-MS, and UV-VIS instruments. Prerequisite: Completion of CHEM 1030. Corequisite: Concurrent enrollment in CHEM 2320.

CHEM 2340 3 CREDITS ORGANIC CHEMISTRY II

This is the second-semester course of a two-semester organic chemistry sequence. Students name and write structures and reaction products for alkynes; write the products of electrophilic aromatic substitution reactions; write structures and reaction products for carbonyl compounds, alcohols, ethers, carboxylic acids and their derivatives (amines, some simple sugars, amino acids, and nucleic acids); and interpret spectra. Prerequisite: Completion of CHEM 2320.

CHEM 2345 1 CREDIT ORGANIC CHEMISTRY LAB II

This is the second-semester course of a two-semester organic chemistry laboratory sequence. Students synthesize and characterize a number of molecules containing a variety of functional groups; operate the laboratory instruments which include NMR spectrometer, FT-IR spectrometer, GC-MS spectrometer, and UV-VIS spectrometer; and handle chemicals in a safe manner while performing experiments. Prerequisite: Completion of CHEM 2325. Corequisite: Concurrent enrollment in CHEM 2340.

College Success

COLS 1000 3 CREDITS INTRODUCTION TO COLLEGE SUCCESS: FIRST-YEAR SEMINAR

Students learn academic success skills, explore life and career goals, develop a support system to connect to campus, and prepare for responsible lives in a dynamic and interdependent world.

Communication

CO/M 1015 3 CREDITS FOUNDATIONS OF COMMUNICATION

Students explore communication contexts and develop skills in the following areas: interpersonal communication, public speaking, and small group communication. This course is designed primarily for applied sciences degrees and certificate programs. Prerequisite: ENGL 0810 or equivalent placement test score.

CO/M 1030 3 CREDITS INTERPERSONAL COMMUNICATION

Students develop skills in interpersonal communication by examining topics such as perception, identity, listening, nonverbal communication, relationship development, conflict management and diversity. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

CO/M 1040 3 CREDITS INTRODUCTION TO HUMAN COMMUNICATION

Students analyze human communication experiences by applying theories of intra- and interpersonal communication, group communication, intercultural communication, mass communication, and organizational communication. Prerequisite: Completion of ENGL 1010.

CO/M 2010 PUBLIC SPEAKING

Students develop foundational verbal, digital, and written communication skills in this introductory public speaking course. Students practice skills to effectively construct, write, organize, deliver, and critique speeches in a variety of public communication contexts

3 CREDITS

and speaking formats. Students focus on the speech development and the preparation process which includes: analyzing the audience, developing the thesis and main ideas/arguments, researching supporting evidence, applying appropriate writing strategies, organizing and outlining, evaluating and revising speech drafts, using appropriate language, vocal delivery and nonverbal behavior in speech performance, listening, critically thinking and reflecting on the speech and writing process, creating digital messages and exploring digital communication technologies. Prerequisite: Completion of or concurrent enrollment in ENGL 1010.

CO/M 2120 3 CREDITS SMALL GROUP COMMUNICATION

Students develop group communication skills focusing on topics such as group decision making and problem solving techniques, group development and cohesion, conflict management, and leadership principles. Prerequisites: Completion of ENGL 0810 or equivalent placement test score.

CO/M 2500 3 CREDITS INTERCULTURAL COMMUNICATION

Students examine human communication processes within the context of various cultures. Specifically, students analyze how culture influences our communication with individuals and groups. Students explore the importance of cultural beliefs, attitudes, and values in order to become more competent communicators in co-cultural settings. Prerequisite: ENGL 0810 or equivalent placement test score.

Computer Applications

CMAP 0900 1 CREDIT FUNDAMENTALS OF COMPUTERS

An introductory course in the fundamentals of computer usage. Students develop knowledge of basic computer skills. Students gain skill and knowledge of basic computer hardware and software.

CMAP 1500 1 CREDIT COMPUTER KEYBOARDING Students become familiar with basic

computer keyboarding, keyboard by touch, and key straight copy at a speed of 25 words a minute or more on a three-minute timing. (This course does not fulfill LCCC's computer literacy requirement.) (S/U grade only)

CMAP 1503 3 CREDITS INTRODUCTION TO COMPUTER APPLICATIONS

An introductory course in computer applications. Students develop knowledge of basic skills in computer applications. Students gain skill and knowledge of software use, Windows, word processing, spreadsheet, presentation graphics, and database applications.

CMAP 1610 WINDOWS I

Students develop expertise in using the Microsoft Windows operating system. Students explore the basic concepts of managing files and folders, working with programs, customizing the desktop, implementing simple security features, and establishing and using an internet connection. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

1 CREDIT

3 CREDITS

CMAP 1615 OPERATING SYSTEMS

This course introduces students to popular operating systems (OS) and helps prepare them to support some OS functions, specifically preparing the student to take the A+ operating system exam. Topics covered include the startup process, device drivers, hard disk setup, and the Microsoft Windows family---setup and upgrade, Linux setup, and DOS basics.

CMAP 1650 I CREDIT INTRODUCTION TO NETWORKING

This course provides students with a basic understanding of local area networking using a popular LAN system. Students become knowledgeable about and acquire an understanding of networking fundamentals (components, topologies, protocols, and security), and commonly used network commands.

CMAP 1685 1 CREDIT USING COMPUTERS IN:

A course in which students acquire knowledge about current computer concepts, terminology, and software. Word processing, spreadsheet, and database applications focus on a specified curriculum, which may vary with each offering.

CMAP 1700 1 CREDIT WORD PROCESSING I:

Students acquire beginning word processing skills including document creation, deleting and inserting text, moving, copying, printing, text formatting, using multiple documents, finding and replacing text, running spell check, using writing tools, and creating tables.

CMAP 1715 3 CREDITS WORD PROCESSING

Students acquire word processing skills including document creation, modification, and integration; mail merge and related concepts; style, formatting, and template use and development; creating and sharing online documents. Students customize documents using drawing, graphics, text special effects, charts, tables, macros, columns, linking, and indexes/tables of contents.

CMAP 1750 I CREDIT INTRODUCTION TO SPREADSHEET APPLICATIONS

Students are provided with a basic understanding of spreadsheet applications. Students learn how to use spreadsheet commands to build and maintain spreadsheets using a popular electronic spreadsheet program. Prerequisite: Completion of MATH 0970 or equivalent placement test score.

CMAP 1765 3 CREDITS SPREADSHEET APPLICATIONS

Students are provided with an in-depth review of spreadsheet applications. Students use spreadsheet commands to build and maintain spreadsheets and workbooks, printing, graphics use, data queries, file operations, and macros. Students create advanced data tables and charts, data models, and solve complex problems using equations. Student's import and export data across several applications, and write simple code for spreadsheet applications. Prerequisite: Completion of MATH 0900 or equivalent placement test score.

CMAP 1800 I CREDIT INTRODUCTION TO DATABASE APPLICATIONS

A study of the techniques used in file organization, storage, and retrieval using a popular database management system.

CMAP 1815 3 CREDITS DATABASE APPLICATIONS

A study of the techniques used in file organization, storage, and retrieval using a popular database management system. Students develop advanced skills used in creating and using relational database applications. Emphasis is on business applications.

CMAP 1886 1 CREDIT MICROSOFT OUTLOOK

This course introduces students to the popular Microsoft Office Outlook software. Students develop the ability to customize Outlook, use e-mail client, manage Outlook's contacts, use Outlook calendar, manage tasks, use Outlook's journal component, and share folders and files with other Outlook users.

CMAP 1920 4 CREDITS COMPUTER HARDWARE MAINTENANCE

Students develop skills necessary to address the hardware components of the CompTIA A+ exams, including the systems setup and the classification of RAM, motherboards, processors, multimedia and mass storage devices, power supplies, I/O devices, printers and laptops. Students also perform hardware maintenance and troubleshooting. Completion of the CompTIA A+ exams is not a course requirement; costs associated with this certification exam are the responsibility of the student.

CMAP 2005 VIRTUALIZATION

3 CREDITS

1 CREDIT

Students develop the skills necessary to install, configure, and manage machines, servers, storage, images, cloud and backup technologies. Prerequisite: CSCO 2000 or instructor approval.

CMAP 2471 PC SUPPORT SKILLS

Students acquire knowledge and skills in maintaining and troubleshooting PCs. Topics include security, safety, environmental issues, communication, and professionalism, as well as installing, configuring, upgrading, and troubleshooting hardware and operating systems.

CMAP 2472 1 CREDIT DATA PROTECTION AND RECOVERY I

Students acquire knowledge and skills enabling them to explain the process of data corruption and data loss and the steps required to protect data and perform simple data recovery. Prerequisites: Completion of CMAP 1615 and CMAP 1920 or instructor approval.

CMAP 2473 1 CREDIT DATA PROTECTION AND RECOVERY II

Students acquire additional knowledge and skills enabling them to explain in detail the process of data corruption and data loss and the advanced steps required to protect data and perform advanced data recovery. Prerequisite: Completion of CMAP 2472.

CMAP 2550 3 CREDITS VISUAL BASIC PROGRAMMING Students acquire knowledge and skills about programming techniques in the current version of Microsoft Visual Basic, an event-driven programming language. Topics include designing Windows applications using forms and controls

and accessing databases and files. Prerequisite: Completion of COSC 1010 or equivalent experience.

CMAP 2560 3 CREDITS INTRODUCTION TO LINUX/UNIX

This course introduces students to the Linux/UNIX operating system using a dedicated server as host. Students acquire basic knowledge of, and skills in, the use of a multi-user, multitasking operating system. Topics include the command structure, user accounts, file systems, directories, text editors and mail systems. Students utilize Linux commands to accomplish input/ output, file manipulation, standards programming structures, scripting, and system administration tasks. Prerequisite: Completion of COSC 1010.

CMAP 2580 WEB PROGRAMMING

Students acquire knowledge and skills necessary to create computer programs for use on the Web. Topics include popular scripting languages, client and server side scripting, database access, and other current Web programming concepts. Cross-listed as INET 2580. Prerequisite: Completion of any programming course and INET 1580 or equivalent experience.

3 CREDITS

CMAP 2630 I CREDIT PRESENTATION GRAPHICS: MICROSOFT POWERPOINT

This course introduces students to a presentation graphics program. Students develop skills in creating slide and outline presentations, utilizing clip art in presentations, and importing graphs and tables into presentations.

CMAP 2810 1 CREDIT SCRIPTING IN:

Students acquire scripting skills in a specific language, which may vary with each offering. Students apply basic language commands and structures to a project in their area of interest. Prerequisite: Completion of COSC 1010 or equivalent.

CMAP 2835 3 CREDITS INTRODUCTION TO SQL

Students acquire knowledge and skills in Structured Query Language using a relational database management system as a platform. Students create and maintain databases and database objects. Topics include queries, subqueries, views, and functions. Prerequisite: Completion of COSC 1010 or equivalent experience.

Computer Applications – Cisco

CSCO 2000 3 CREDITS CISCO: INTERNETWORKING I

This course prepares students to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. Students develop skills necessary to plan and design the architecture, structure, functions, component, and models of the internet and computer networks. Students implement the principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum.

3 CREDITS

CSCO 2010 CISCO: ADVANCED INTERNETWORKING I

This course prepares students to plan and design the architecture, components, and operations of routers and switches in a small network. Students configure routers and switches for basic functionality. Students configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs and inter-VLAN routing in both IPv4 and IPv6 networks. Prerequisite: Completion of CSCO 2000 or instructor approval.

CSCO 2020 3 CREDITS CISCO: ADVANCED INTERNETWORKING II

This course prepares students to plan and design the architecture, components, and operations of routers and switches in a large and complex network. Students configure routers and switches for advanced functionality. By the end of this course students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP and VTP in both IPv4 and IPv6 networks. Students implement DHCP and DNS operations in a network. Prerequisite: Completion of CSCO 2010 or instructor approval.

CSCO 2025 CISCO: ADVANCED INTERNETWORKING III

This course prepares students to plan and design WAN technologies and network services required by converged applications in a complex network. Students analyses selection criteria of network devices and WAN technologies to meet network requirements. Students configure and troubleshoot network devices and resolve common issues with data link protocols as well as implementing IPSec and virtual private network (VPN) operations in a complex network. Prerequisite: Completion of CSCO 2020.

Computer Applications – Computer Security

CSEC 1500 3 CREDITS NETWORK SECURITY FUNDAMENTALS

Students gain a fundamental understanding of computer and network security and explore a wide variety of concepts related to computer security. This course prepares the student for the CompTIA Security+ Certification. Crosslisted with HSEC 1500. Prerequisite: Completion of or concurrent enrollment in CSCO 2000.

CSEC 1510 3 CREDITS NETWORK DEFENSE PRINCIPLES

Students employ knowledge and gain experience installing firewalls and intrusion detection systems. Students develop a solid foundation in advanced network security fundamentals, incorporating examination of intrusion detection, network address translation, packet filtering, proxy servers, firewalls, and virtual private networks. Course content includes network defense fundamentals, risk analysis, security policy implementation, network traffic signatures, virtual private network concepts, VPN implementation, intrusion detection system concepts, incident response, choosing and designing firewalls, firewall topology, strengthening and managing firewalls, and strengthening defense through ongoing management. Cross-listed with HSEC 1510. Prerequisite: Completion of or concurrent enrollment in CSCO 2000.

CSEC 1520 3 CREDITS NETWORK ATTACK PRINCIPLES

Students scan, test, hack, and secure systems in an interactive lab environment. Students analyze perimeter defenses and attacker tactics, as well as intrusion detection, policy creation, social engineering, DDoS Attacks, buffer overflows, and virus creation. This course will help prepare the student for the EC-Council Certified Ethical Hacker (CEH) Certification. Cross-listed as HSEC 1520. Prerequisite: Completion of or concurrent enrollment in CSCO 2000.

3 CREDITS CSEC 1530 COMPUTER FORENSICS

Students employ a detailed methodological approach to computer forensics and evidence analysis. Students demonstrate the skills necessary to acquire and handle digital evidence, identify and track cybercriminals and complete computer investigations. This course will help prepare the student for the EC-Council Certified Hacking Forensic Investigator (CHFI) Certification. Cross-listed as HSEC 1530. Prerequisite: Completion of or concurrent enrollment in CSCO 2000.

3 CREDITS

CSEC 2013 3 CREDITS CYBERSECURITY CAPSTONE

Students demonstrate the knowledge and skills they have acquired throughout the Cybersecurity program within a Cyber Range, a controlled virtual environment designed to test student ability to protect systems against cyber attacks under realistic conditions. After completion of the practical portion of the lab, students develop a new policy or procedure to add to current cybersecurity practices. Crosslisted as HSEC 2013. Instructor consent required.

Computer Applications – Internet Technology

INET 1550 1 CREDIT INTRODUCTION TO THE INTERNET

Students gain and demonstrate knowledge about the worldwide network of computers and users known as the internet. Students also acquire skills in accessing worldwide databases. Topics covered include FTP, web browsers, the World Wide Web, effective search techniques, online communications, and online security.

INET 1580 3 CREDITS WEB PAGE AUTHORING

Students learn how to create a webpage and websites by utilizing simple text editors. Students gain functional knowledge of the hypertext markup language (HTML), cascading style sheets (CSS) and establish a website portfolio consisting of multiple sites created throughout the course. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

INET 1640 3 CREDITS WEB DEVELOPMENT TOOLS:

Students acquire knowledge and skills about creating web pages using current web development software. Topics include web page design, site definition, table layout, templates, CSS (Cascading Style Sheets), and applying industry standards. Prerequisite: Completion of or concurrent enrollment in INET 1583, or instructor approval.

INET 2020 3 CREDITS DESIGNING E-COMMERCE WEB SITES

Students create e-commerce web sites. Topics include applicable design, shopping cart application, security software, site navigation, and web marketing concepts. Prerequisite: Completion of INET 1640 or INET 2620 or instructor approval.

INET 2580 3 CREDITS WEB PROGRAMMING

Students acquire knowledge and skills necessary to create computer programs for use on the Web. Topics include popular scripting languages, client and server side scripting, database access, and other current Web programming concepts. Cross-listed as CMAP 2580. Prerequisite: Completion of any programming course and INET 1580 or equivalent experience.

INET 2620 3 CREDITS DESIGNING EFFECTIVE WEB SITES

Students evaluate current web sites for evidence of web standards, semantic code, and acceptable design practices. Students plan, design and develop web sites which demonstrate adherence to web standards and design principles. Students create original sites to meet the needs and desires of fictitious clients and justify their design decisions both orally and in writing. Students employ specific web design software to create a rich portfolio collection of original work and guided projects that incorporate words and media. Prerequisite: Completion of INET 1580.

Computer Applications – Linux

LINX 2500 4 CREDITS LINUX ADMINISTRATION I

Students develop the knowledge and skills necessary to install and administer Linux systems. Students examine the basic concepts of Linux/ UNIX operating systems. Topics covered include installation, boot managers, Linux desktop, help resources, system management, file and directory structure, shells and scripting, user administration, command line administration, processes, network configurations, and Linux security basics. Upon successful completion of the course students will be able to install, configure, and administer a Linux system. This course also provides a base from which students can study to pass the CompTIA Linux+ certification.

LINX 2510 4 CREDITS LINUX ADMINISTRATION II

Students gain the knowledge and skills necessary to implement and administer Linux servers and related services. They explore advanced administrative concepts of Linux/UNIX server environments. Topics covered include network configurations, network services, backups and recoveries, and troubleshooting. Upon completion of the course, students should be able to install, configure, and administer a Linux server. This course provides in-depth coverage of network services including DNS, DHCP, e-mail, FTP, file, Web, and print servers. This course contributes to the knowledge base needed to help prepare students for the Linux Red Hat Engineer certification exams. Prerequisite: Completion of LINX 2500 or instructor approval.

LINX 2600 LINUX NETWORKING

4 CREDITS

Students interested in becoming a Linux systems/network administrator or engineer gain the knowledge and skills necessary to design, build, and manage a Linux-based network infrastructure. They explore advanced Linux networking topics, including an in-depth knowledge of the Linux TCP/IP stack and IP version 6 as well as the configuration and management of IP subnetting, network interfaces, NFS, NIS, VNC, network security, and network monitoring/ troubleshooting. Upon successful completion of the course, students are able to design and manage Linux-based networks. This course contributes to the knowledge base needed to help prepare students for the Linux Red Hat Engineer certification exams. Prerequisite: Completion of LINX 2510 or instructor approval.

LINX 2610 LINUX SECURITY

4 CREDITS

Students preparing to become professional Linux systems/network engineers develop the knowledge and skills necessary to design and manage secure Linux systems. Topics covered include security concepts, secure communication, infrastructure security, cryptography, defense against hackers and crackers, password security, port and service security, as well as monitoring security. In addition, they develop a working knowledge of firewalls, VPN, and packet filtering as components in a layered security environment. This course contributes to the knowledge base needed to help prepare students for the Linux Red Hat Engineer certification exams. Prerequisites: Completion of LINX 2510 and LINX 2600 or instructor approval.

LINX 2620 LINUX SCRIPTING

LINUX SCRIPTING Students pursuing a career in system/ network engineering develop the knowledge and skills necessary for designing and managing Linux-based shell scripts. Students navigate through Linux command shell and file structure as well as develop, execute, and debug Linux-based shell scripts. They evaluate various external scripting languages and utilize advanced scripting concepts and practices including scheduled

and remote administrative scripts. Prerequisite: Completion of LINX 2500 and COSC 1010 or instructor approval. LINX 2700 4 CREDITS

LINUX AND WINDOWS INTEGRATION Students interested in becoming Linux system/network engineers gain the knowledge and skills needed to design and manage the interoperation of Linux and Microsoft systems. They prepare to plan, implement, troubleshoot, and manage mixed Linux and Microsoft environments. Topics covered include Linux and Microsoft directory services, user account management, network shares and trusts, samba, and account security. Upon successful completion of the course, students are able to design and manage a mixed Linux and Microsoft network environment. This course contributes to the knowledge base needed to help prepare students for the Linux Red Hat Engineer certification exams. Prerequisites: Completion of LINX 2510, LINX 2600, and MSFT 2700, or instructor approval.

Computer Applications – Microsoft Technology

MSFT 2578 NETWORKING ESSENTIALS

4 CREDITS

A course designed to provide students with the knowledge and skills necessary to understand the local area networking information in Microsoft courses on workstations and networking. The course serves as a general introduction for students who need a foundation in current networking technology for local area networks (LANs), wide area networks (WANs), and the internet. Prerequisite: Completion of CMAP 1650 or instructor approval.

4 CREDITS MSFT 2600 4 CREDITS IMPLEMENTING MICROSOFT system/ WINDOWS DESKTOP

Students gain the knowledge and skills necessary to install, manage, and maintain professional Microsoft Windows desktop environments. Students install, manage, and maintain current Microsoft Windows operating systems; manage local accounts and configure permission to resources; and manage security, network resources, printers, and group policies. This course is intended for help desk, desktop, and systems administrators who work in a Microsoft networked environment.

MSFT 2700 4 CREDITS MANAGING AND MAINTAINING MICROSOFT SERVERS

Students gain the knowledge and skills necessary to install, maintain, configure, monitor, and administer Microsoft server environments. Students configure and manage domain accounts, server roles, security, backups, and group policy objects. Students design IPv4 and IPv6 sub-networks and deploy Microsoft Network Infrastructure to support them. Students also manage and secure network resources and distributed file systems.

MSFT 2710 4 CREDITS MICROSOFT SERVER ADMINISTRATION

Students gain the knowledge and skills necessary for implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server environment. Students configure and troubleshoot name resolution, user and group management with Active Directory Domain Services (AD DS) and Group Policy, implementing Remote Access solutions such as Direct Access, VPNs and Web Application Proxy, implementing Network Policies and Network Access Protection, Data Security, deployment and maintenance of server images, as well as update management and monitoring of Windows Server. Prerequisite: Completion of MSFT 2700 or instructor approval.

MSFT 2715 4 CREDITS MICROSOFT SERVER ADVANCED ADMINISTRATION

Students develop the knowledge and skills necessary for designing, implementing and managing a Microsoft network infrastructure. Students learn to implement a core Windows Server infrastructure in an existing enterprise environment. Students implement, manage, maintain and provision services and infrastructure in a Windows Server environment. Students use advanced configuration of services necessary to deploy, manage and maintain a Windows Server infrastructure, such as advanced networking services, Active Directory Domain Services (AD DS), Active **Directory Rights Management Services** (AD RMS), Active Directory Federation Services (AD FS), network load balancing, failover clustering, business continuity and disaster recovery services. Prerequisite: Completion of MSFT 2710 or instructor approval.

MSFT 2720 4 CREDITS MICROSOFT NETWORK INFRASTRUCTURE

Students develop the knowledge and skills necessary to design, implement, and maintain a Microsoft network infrastructure. Students install and configure Microsoft servers and network infrastructure services, including DHCP, DNS, RRAS, and develop skills needed to maintain the health of the network. By completing this course, students prepare to take the current Microsoft Network Infrastructure exam. Prerequisite: Completion of MSFT 2700 or instructor approval.

MSFT 2730 4 CREDITS MICROSOFT APPLICATION SERVERS

Students develop the knowledge and skills necessary to design, implement, configure, and manage Microsoft Application Servers. They deploy file service roles including IIS services, Web applications, terminal services, network applications, and high availability technologies. By completing this course, students prepare to take the current Microsoft Application Server exam. Prerequisite: Completion of MSFT 2700 or instructor approval.

MSFT 2800 4 CREDITS IMPLEMENTING MICROSOFT SERVER VIRTUALIZATION

Student develop the knowledge and skills necessary to design and administer Microsoft server virtualization. Students install and configure Microsoft Hyper-V and VMWare virtual environments. Students design and manage virtual machines and virtual networking. Students also manage virtual resources including storage, networking, processing, clusters, and memory. Students learn to manage virtual machine replication, remote desktop, and cloud environments. Students learn to monitor and optimize virtual machines as well as backup and restore them. Prerequisite: Completion of MSFT 2700 or instructor approval.

MSFT 2810 4 CREDITS MICROSOFT SQL SERVER ADMINISTRATION

Students develop the knowledge and skills necessary to design and administer Microsoft SQL servers and SQL databases. Students install and configure Microsoft SQL servers. Students design and manage SQL tables, views, databases, stored procedures, and reports. Students also configure user accounts, authentication and permissions for SQL databases. Students also learn to monitor, optimize and backup SQL servers. Prerequisite: Completion of MSFT 2700 or instructor approval.

MSFT 2900 4 CREDITS MICROSOFT PROJECT MANAGEMENT

Students learn to plan, design and manage technical projects. Students develop the knowledge and skills necessary to plan, design and manage technology-based projects effectively in order to meet the business needs. Students plan and design Microsoft systems and networks through the Project Management processes detailed in the Project Management Book of Knowledge (PMBOK). Students develop a project plan which addresses all phases of a successful project. Students use project management tools to aid in the design and implementation of their projects. Prerequisite: Completion of MSFT 2700 or instructor approval.

Computer Science

COSC 1010 INTRODUCTION TO COMPUTER SCIENCE

Students are introduced to the fundamental concepts of computer programming and the programming development cycle. Given varied problems students will analyze, design, implement, and test solutions utilizing a contemporary computer programming language. Solutions will become more complex as the course progresses. Students will ultimately utilize simple data types, input/output statements, strings, control structures, and modules. Students will employ sound software engineering principles and debugging techniques. Prerequisite: Completion of or concurrent enrollment in MATH 1400 or higher.

4 CREDITS

COSC 1030 4 CREDITS COMPUTER SCIENCE I

Students acquire algorithmic problemsolving skills applying the principles of structured programming and object-oriented design. Algorithms are implemented in a high-level, objectoriented programming language (C++). Programming exercises and experimentation with software in a closed laboratory supplement the discussion. Prerequisite: Completion of COSC 1010 or equivalent.

COSC 1200 3 CREDITS COMPUTER INFORMATION SYSTEMS

A course covering digital electronic devices, hardware, software, the internet, and productivity software currently used in business. Students select and apply appropriate technology to address specific situations. Students evaluate privacy and ethical issues in the use of technology, and students evaluate the impact of technology on society. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

COSC 2030 4 CREDITS COMPUTER SCIENCE II

A study of the use and implementation of abstract data structures in an objectoriented programming environment. Topics include lists, stacks, queues, tables, binary trees, graphs, space and time complexity, recursion, and recursive data types. Programming exercises and experimentation with software in a closed laboratory supplement the discussion. Prerequisite: Completion of COSC 1030.

COSC 2300 3 CREDITS DISCRETE STRUCTURES

Students are introduced to the mathematical concepts that serve as foundations of computer sciences: logic, set theory, relations and functions, graphs (directed and undirected), inductively defined structures (lists and trees), and applications of mathematical induction. Provides an introduction to abstract and rigorous thinking in advanced mathematics and computer sciences. Cross-listed as MATH 2300. Prerequisite: Completion of COSC 1030 or MATH 2200 or MATH 2350.

Construction Management

CMGT 1505 I CREDIT INTRODUCTION TO CONSTRUCTION MANAGEMENT

Students learn about the construction management profession and the role of the construction manager in various fields of construction. Students acquire knowledge about the variety of allied careers in the construction industry and ethics required of individuals working in the construction industry. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

CMGT 1520 3 CREDITS INTRODUCTION TO BLUEPRINT READING AND BUILDING CODES

Students acquire knowledge about the complexities of modern construction and related technologies. Students learn to read, understand, and interpret construction drawings for both commercial and residential construction. Students examine how a building's design parameters and construction methods relate to building codes. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

3 CREDITS

CMGT 2560 CONSTRUCTION AND INDUSTRY SAFETY

Students learn safety policies and procedures of a construction site. Students acquire knowledge in safe handling of industrial power tools, personal protective equipment, and electrical safety. In addition, students learn about the implementation of practical safety standards and the consequences of violating those standards in the work place. Students receive a valid 30-hour OSHA card upon successful completion of this course. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

Cooperative Work Experience

An introduction to the work-related experience. This course combines classroom study with on-site employment to provide the student a complete learning experience. The course is designed to provide the student with relevant duties and responsibilities at the training station and to prepare the student for advancement toward the student's occupational goal.

Students may earn a maximum of 10 credit hours, which would be applicable to an associate's degree or a certificate. Entering students must consult with the department prior to enrollment.

Veterans interested in these offerings should contact the veterans' counselor as these courses may not qualify for VA benefits.

Courses numbered 1480 denote academic freshman-level work.

Courses numbered 2480 denote academic sophomore-level work.

Courses numbered 1980 denote vocational freshman-level work.

Courses numbered 2980 denote vocational sophomore-level work.

Counseling

CNSL 2300 3 CREDITS COUNSELING SKILLS FOR HELPING PROFESSIONALS

Students discuss and apply basic counseling and communication skills. In addition, students develop and demonstrate a command of basic skills including listening, responding, encouraging, and initiating change in interpersonal communication through mediation and conflict resolution.

Criminal Justice

CRMJ 1310 3 CREDITS CRIMINAL INVESTIGATION I

Students examine the fundamentals of criminal investigation. This class is designed for students considering careers in law enforcement or criminal justice as well as for those already in the field. Prerequisite: Completion of CRMJ 2120 or consent of instructor.

CRMJ 1320 3 CREDITS CRIMINAL INVESTIGATION II

A detailed study of the crime laboratory as an integral part of criminal investigation. Topics include an overview of the historical development of forensic sciences; descriptions and applications of various scientific techniques used in the study of crimes; the collection, preservation, and recognition of evidence; and laboratory techniques. Prerequisite: Completion of CRMJ 1310 or consent of instructor.

CRMJ 1510 3 CREDITS POLICE SCIENCE I

A study of the role of the police and policing in American society and an examination of the pattern of relations between police and the public. Students become knowledgeable about the nature of police organizations and police work within the context of a broad social, political, and legal framework. Prerequisite: Completion of CRMJ 2120 or consent of instructor.

CRMJ 2004 3 CREDITS HOMELAND SECURITY AND LAW ENFORCEMENT

Students use criminological or criminal justice framework to analyze terrorist groups and individuals; terrorist origins, goals, dynamics, ideologies; counterterrorism; and homeland security. Students examine the structure and dynamics of terrorism, terrorist weapons, strategies and tactics, how they evolve, the ways in which they operate, how terrorists obtain funding, their use of the media, and theories of counterterrorism. Students review definitions of terrorism, analyze specific concepts, and examine issues that arise when responding to terrorism or the threat of terrorism. Cross-listed as HSEC 2004. Prerequisite: Completion of or concurrent enrollment in HSEC 1000 or completion of or concurrent enrollment in ENGL 0810, or equivalent placement test score.

CRMJ 2120 INTRODUCTION TO CRIMINAL JUSTICE

An overview course regarding the criminal justice system and how it relates to the administration of justice in our complex society. Students study a survey of philosophies, functions and methods of social control with emphasis on the role of law and those involved in its administration, i.e. police, courts, and corrections organizations which includes a study of history, organization process and problems related to law and justice agencies in a heterogeneous, democratic society. Prerequisites: Completion of ENGL 0810 or equivalent placement test score.

3 CREDITS

CRMJ 2210 CRIMINAL LAW I

3 CREDITS

An introduction to criminal law as an institution and as a formal means of social control. Students view criminal law from the perspective of criminal justice, law, anthropology, sociology, and psychology. For both non-majors and majors in law enforcement, corrections and pre-law. Prerequisite: Completion of CRMJ 2120 or consent of instructor.

CRMJ 2220 CRIMINAL LAW II

3 CREDITS

An introduction to basic individual rights protected under the United States Constitution and how these rights come into conflict with the maintenance of public order and the enforcement of the criminal laws of the United States and individual states. Students study: an overview of the criminal court system and the arena in which legal conflict is resolved, law of arrest, search and seizure, confessions, pretrial identifications, the exclusionary rule, privacy, probable cause, reasonable doubt, and those rights guaranteed by the Fourth, Fifth, and Sixth Amendments. Prerequisite: Completion of CRMJ 2210 or consent of instructor.

CRMJ 2350 3 CREDITS INTRODUCTION TO CORRECTIONS

A course dealing with the development and philosophy of the many attempts to change the lawbreaker. Treatment and punishment are discussed for adults and juveniles in both community and institutionally-based alternatives. For both nonmajors and majors in criminal justice. Prerequisite: Completion of CRMJ 2120 or consent of instructor.

CRMJ 2380 3 CREDITS PROBATION AND PAROLE

A study of the history, philosophy, and legal authority of community correctional alternatives. Community corrections topics include probation, parole, fines, diversion, restitution, community treatment centers, work/study release centers, half-way houses, and other intermediate sanctions. Prerequisite: Completion of CRMJ 2120 or consent of instructor.

CRMJ 2400 CRIMINOLOGY

3 CREDITS

An introductory overview of criminal behavior and its impact on the criminal justice system. Students discover theories of criminal behavior, examination and analysis of statistics on crime, explanations of crime causation, and the relationship between crime and the criminal justice process. Prerequisite: Completion of CRMJ 2120 or SOC 1000 or consent of instructor. Cross-listed as SOC 2400 Criminology.

S CRMJ 2420 JUVENILE JUSTICE

A study of the system of justice for those under age 18. Topics include an analysis of the various models of the system, the decision to call the police, police discretion involving delinquents, juvenile court philosophy and process, prevention, and diversion from the juvenile justice system. Prerequisite: Completion of CRMJ 2120 or consent of instructor.

Decision Science

DSCI 2210 3 CREDITS PRODUCTION AND OPERATIONS MANAGEMENT

An introductory course in production and operations management. Students gain knowledge and skills about operations strategy, project management, forecasting, quality management, supply chain management, inventory management, production and operations planning. Students apply these decisionmaking strategies to typical management situations. Prerequisites: Completion of STAT 2010 or 2050 or 2070, MATH 2355 or MATH 2200, and IMGT 2400.

Dental Hygiene

DHYG 1110 DENTAL BIOLOGY

3 CREDITS

DENTAL BIOLOGY Students study dental terminology and explore the structure and function of the teeth and oral cavity. Students examine the embryonic development and microscopic anatomy of the oral structures. Students practice identification of teeth, oral structures, and occlusion, and perform activities related to embryonic development and histology in the lab. Prerequisite: Acceptance into the Dental Hygiene program.

DHYG 1150 2 CREDITS PREVENTIVE DENTISTRY

Students explore risk assessments, preventive concepts and oral physiotherapy aids to help clients achieve control of oral diseases. Students examine the basic etiology, classification and process of caries and periodontal disease. Students apply the CAMBRA methodology of prevention and control. Students demonstrate dental health education and client motivation techniques. Prerequisite: Acceptance into the Dental Hygiene program.

DHYG 1200 PHARMACOLOGY

2 CREDITS

Students examine the principles of pharmacology as they affect the clinical practice of dental hygiene and the management of medical emergencies in the dental office. Prerequisite: Completion of DHYG 1410.

3 CREDITS DHYG 1245 3 CREDITS DENTAL NUTRITION AND the for BIOCHEMISTRY

Students identify the concepts of biochemistry, cell metabolism and principles of nutrition. Students examine energy balance and the chemistry, digestion, absorption and metabolism of proteins, carbohydrates, lipids, water, vitamins and minerals. Students explore the role of nutrition in development and maintenance throughout the life cycle, as well as the role of nutrition in health and disease in the oral cavity. Students analyze diets and eating patterns Students apply nutritional counseling strategies to prevent oral disease and improve oral health. Prerequisite: Completion of DHYG 1150.

DHYG 1410 6 CREDITS DENTAL HYGIENE PRINCIPLES

Students identify the microbiology related to transmissible diseases in dentistry and the chain of asepsis. Students practice sterilization, aseptic techniques, infection control procedures and the use of maintenance of dental equipment. Students identify OSHA, HIPAA, hazardous communication, safety, ergonomic, risk management, and medical emergencies procedures and documentation. Students explore the principles of ethical and professional behavior, the American Dental Hygienists' Association Code of Ethics and Standards of Care as they relate to the practice of dental hygiene. Students assess their client's needs, complete dental hygiene diagnosis, develop care plans and document in practice management software. Students identify instruments and practice instrumentation. Prerequisite: Acceptance into the Dental Hygiene program.

DHYG 1420 2 CREDITS DENTAL HYGIENE SEMINAR I

Students analyze patient assessment data, prepare dental hygiene diagnoses and design dental hygiene care plans for physically compromised, geriatric, pediatric and culturally diverse clients. Students practice selection, use and maintenance of area specific and implant instruments and powered scalers. Students demonstrate topical, noninjectable, and desensitizing techniques for client comfort. Students practice professional and legal documentation. Techniques learned in class will be utilized in DHYG 1425. Prerequisite: Completion of DHYG 1410.

DHYG 1425 3 CREDITS DENTAL HYGIENE CLINIC I

Students demonstrate competency in basic dental hygiene interventions utilized in patient care in both clinical settings and service-learning activities. Students apply the fundamental principles of assessing, treating, and evaluating the patient's individual needs as they develop skills using the dental hygiene process of care model. Students also assess their clinical skills, delivery of patient care, and reflect on their experiences in all settings. Prerequisite: Completion of DHYG 1410.

DHYG 2200 2 CREDITS GENERAL AND ORAL PATHOLOGY

Students demonstrate an understanding of the fundamentals of general pathology and disease processes including immunology, inflammation and repair. Students practice differential assessment of common diseases affecting the oral and perioral structures based on clinical signs, symptoms and radiographic manifestations. Students will be able to differentiate between normal and abnormal tissues and refer abnormal findings for diagnosis. Prerequisite: Completion of DHYG 2400.

DHYG 2250 PAIN MANAGEMENT

2.5 CREDITS

Students acquire the knowledge to administer topical, noninjectable, and local anesthetics and nitrous oxide analgesia to increase patient comfort and pain control when providing dental hygiene services. Students examine principles of pharmacology, patient management, medical considerations, and indications and contraindications for the use of local anesthetics and nitrous oxide analgesia. Students correlate theory to practice in the lab and clinical experience practicing pain management techniques using the dental hygiene process of care and the safe use of equipment and armamentarium. Prerequisite: Completion of DHYG 1200.

DHYG 2260 3 CREDITS DENTAL PUBLIC HEALTH

Students identify significant social, political, psychological and economic factors influencing the health care system. Through service-learning activities, students assess, plan, implement and evaluate strategies to address diverse community-identified needs. Students practice research methodology and basic statistical analysis in classroom activities and public presentations. Prerequisite: Completion of DHYG 2430.

DHYG 2330 PERIODONTOLOGY

Students review the anatomy and histology of periodontal structures in health. Students identify the etiologies, host response, histopathology and classifications, of periodontal diseases including local, systemic and parafunctional factors. Students explore the dental hygienist's role in prevention, nonsurgical periodontal therapy, re-evaluation, and periodontal maintenance. Students identify supplemental assessments and develop evidence-based recommendations for treatment and referral of selected cases. Prerequisite: Completion of DHYG 1420.

DHYG 2400 2 CREDITS HEAD, NECK, AND ORAL ANATOMY Students explore the structure and

function of the head and neck. Students examine the skull osteology, sinuses, muscles, neuroanatomy, blood supply, lymphatics, glandular tissue, and oral mucous membranes. Prerequisite: Completion of DHYG 1110.

DHYG 2410 3 CREDITS ETHICS, LAW AND PRACTICE MANAGEMENT

Students examine ethical theories, professional codes of ethics and apply ethical reasoning techniques to dental hygiene practice. Students explore legal topics including employment, civil, criminal, professional and regulatory law related to dentistry. Students learn dental practice management skills and job seeking strategies. Prerequisite: DHYG 2330.

DHYG 2430 2 CREDITS DENTAL HYGIENE SEMINAR II

Students practice behavior management strategies, dental hygiene diagnosis and treatment planning for cognitively impaired, medically compromised, chemical dependent, nutritionally compromised and culturally diverse clients. Students document oral conditions using intraoral cameras and intraoral photos. Techniques learned in class will be practiced in DHYG 2435. Prerequisite: Completion of DHYG 1420.

DHYG 2435 5 CREDITS DENTAL HYGIENE CLINIC II

Students demonstrate competency in more advanced clinical practice skills using state-of-the-art treatment modalities and equipment. Utilizing the dental hygiene process of care model, students apply the principles of professionalism, communication, clinical judgment, collaboration, and self-evaluation to provide individualized patient care in a variety of clinical settings and service-learning activities. In addition, students write journal entries reflecting on their experiences and relating these experiences to their professional development. Prerequisite: Completion of DHYG 1425.

3 CREDITS DHYG 2440 DENTAL HY

DENTAL HYGIENE SEMINAR III Students explore the licensing process, dental specialty practices and practice advanced supplemental clinical skills. Students present an analysis of a periodontal case study patient treated in the dental hygiene clinic. Students evaluate their personal competency in a capstone portfolio and case-study and through self-reflection of a clinical experience. Prerequisite: Completion of DHYG 2330.

DHYG 2445 5 CREDITS DENTAL HYGIENE CLINIC III

Students demonstrate competency in comprehensive patient care through the integration of all required program competencies and proficiencies. Students practice evidence-based decision making in providing dental hygiene interventions and developing or modifying treatment plans. Utilizing the dental hygiene process of care model, students apply the principles of professionalism, communication, clinical judgment, collaboration, and self-evaluation to provide individualized patient care in a variety of clinical settings and service-learning activities. In addition, students write journal entries that reflect critical thinking and development of professional, personal, and civic responsibility. Prerequisite: Completion of DHYG 2435.

DHYG 2450 DENTAL RADIOLOGY

3 CREDITS

3 CREDITS

1 CREDIT

Students expose, process, mount and evaluate radiographic images. Students demonstrate principles of x-ray generation, image production and radiology safety. Students examine radiographic anatomy and pathology. Prerequisite: Acceptance into the Dental Hygiene program.

DHYG 2460 DENTAL MATERIALS

Students examine the composition, chemical and physical properties of dental materials to enhance the student's ability to make clinical judgments on the use and care of these materials in formulating the dental hygiene treatment plan. During lab, students manipulate various materials and explore the influence and effects of manipulation and oral environment on the clinical performance of dental materials. Prerequisite: Completion of DHYG 1150.

DHYG 2975 1 CREDIT CLINICAL INDEPENDENT STUDY

CLINICAL INDEPENDENT STUDY Students demonstrate the ability to provide comprehensive patient care and maintenance of clinical skills in preparation for clinical boards. Students expand clinical experience by providing patient care in public health clinical sites. Prerequisite: Completion of four terms of the Dental Hygiene program.

Developmental Studies

DVST 0890 3 CREDITS BASIC SKILLS DEVELOPMENT

A course designed to enhance students' skills in reading, vocabulary, speaking, mathematics, and/or writing. Instruction is individualized to meet the students' needs in the basic skills areas. May be repeated for up to two times for credit. Placement in this course is by advisor only.

Diagnostic Medical Sonography

IMAG 2205 3 CREDITS INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY

Students explore the field of Diagnostic Medical Sonography by examining the history of sonography and correlation of other imaging modalities. Students develop an understanding of the Society of Diagnostic Medical Sonography Code of Ethics pertaining to patient care and daily involvement with physicians, nurses, and other sonographers. Students learn to identify different behaviors and mental processes as it relates to the healthcare field. Prerequisite: Admission to the Diagnostic Medical Sonography program.

IMAG 2210 2 CREDITS ULTRASOUND PHYSICS I

Students are introduced to physics and instrumentation relevant to diagnostic medical sonography. Students explore the components of the ultrasound machine system, sound beam properties, sound propagation in tissue and ultrasound transducers. Prerequisites: Completion of IMAG 2205 and IMAG 2212.

IMAG 2212 3 CREDITS CROSS-SECTIONAL ANATOMY

Students identify internal structures including organs and vasculature important to the objectives of Diagnostic Medical Sonography (DMS). Students develop cross-sectional, anatomic recognition skills and skill in correlating images from other imaging modalities. Prerequisite: Acceptance into the Diagnostic Medical Sonography program.

IMAG 2215 2 CREDITS ABDOMINAL SONOGRAPHY I

This course is designed to introduce the student to the anatomy, pathology, and physiology of the abdominal organs along with the proper scanning protocols of each organ. Specifically the student learns and recognizes normal echotexture of anatomy and pathology as it relates to the following organs: pancreas, liver, biliary system, gallbladder, kidneys, and abdominal vasculature. The student explores the importance of sonographic image quality as it relates to the anatomy and pathology. This course is only offered in the fall semester. Prerequisite: Completion of IMAG 2205 and IMAG 2212.

IMAG 2216 2 CREDITS ABDOMINAL SONOGRAPHY I LAB

A course to be taken concurrently with IMAG 2215. Through laboratory experience, students actively demonstrate and experiment with the effects of technical factors, patient positioning, and recognition of normal echo-texture of anatomy and pathology of the abdominal organs. Students perform ultrasounds of the human abdomen including: liver, gallbladder, biliary system, pancreas, abdominal aorta and kidneys. This course is only offered in the fall. Prerequisite: Completion of IMAG 2205 and IMAG 2212, and concurrent enrollment in IMAG 2215.

IMAG 2220 2 CREDITS OB/GYN SONOGRAPHY I

This course is designed to introduce the student to anatomy, pathology, and physiology of the non-gravid female pelvic organs and first trimester pregnancy along with the proper scanning protocols of each pelvic organ and a first trimester pregnancy. Specifically the student learns and recognizes normal echo-texture of anatomy and pathology as it relates to the following organs: uterus, ovaries, pelvic muscles, bladder, and development of a first trimester pregnancy. The students explores the importance of sonographic image quality as it relates to the anatomy, pathology, and developing first trimester fetus. This course is offered in the fall semester. Prerequisite: Completion of IMAG 2205 and IMAG 2212.

IMAG 2221 I CREDIT OB/GYN SONOGRAPHY I LAB

A course to be taken concurrently with IMAG 2220. Through laboratory experience, students actively demonstrate and experiment with the effects of technical factors, patient positioning, and recognition of normal echo-texture of anatomy and physiology of the female pelvic organs and first trimester pregnancy. Students perform ultrasounds of the non-gravid female pelvic organs including: uterus, ovaries, pelvic muscles, and bladder. Students perform ultrasounds of the first trimester pregnancy including the uterus, ovaries, and developing fetus. This course is offered in the fall semester. Prerequisite: Completion of IMAG 2205 and IMAG 2212, and concurrent enrollment in IMAG 2220.

IMAG 2240 3 CREDITS ULTRASOUND PHYSICS II

Students build on skills learned in IMAG 2210. Students demonstrate competency in general Doppler, color Doppler, and spectral Doppler principles, quality assurance and quality control principles, and sonographic safety as they relate to bioeffects. Students explore image production and display, storage of the ultrasound image, and sonographic artifacts. Students investigate new frontiers in ultrasound principles, and demonstrate competency in transducer selection, usage, setting scanning parameters, and interactive properties of ultrasound. Students apply knowledge learned in this course and review content from Ultrasound Physics I throughout this course in order to prepare for national board certification. Prerequisite: Completion of IMAG 2210.

IMAG 2245 2 CREDITS ABDOMINAL SONOGRAPHY II/SMALL PARTS

A continuation of IMAG 2215. This course is designed to introduce the student to the anatomy, pathology, and physiology of superficial structures along with the proper scanning protocols of each organ. Specifically the students learns and recognizes normal echo-texture of anatomy and pathology as it relates to the following: thyroid, breast, male reproductive system, neonatal brain, and other superficial structures as it relates to specific organs. The student explores the importance of sonographic image quality as it relates to the anatomy and pathology. This course is offered in the Spring semester. Prerequisite: Completion of IMAG 2215 and IMAG 2216

IMAG 2246 I CREDIT ABDOMINAL SONOGRAPHY II / SMALL PARTS LAB

A course to be taken concurrently with IMAG 2245. Through laboratory experience, students actively demonstrate and experiment with the effects of technical factors, patient positioning, and recognition of normal echo-texture of anatomy and pathology of superficial structures and focus on performing a complete abdominal ultrasound. Students perform ultrasounds of the abdominal organs including the liver, pancreas, biliary system, gallbladder, kidneys, spleen and abdominal vasculature. Students perform ultrasounds on the superficial structures including: thyroid, breast, and explore interventional procedures. Prerequisite: Completion of IMAG 2215 and IMAG 2216, and concurrent enrollment in IMAG 2245.

IMAG 2250 2 CREDITS OB/GYN SYNOGRAPHY II

This course is a continuation of IMAG 2220. This course is designed to introduce the student to the anatomy, pathology, and physiology of the developing second and third trimester pregnancy and post pregnancy female pelvis. Students are introduced to the proper scanning protocols of a second and third trimester pregnancy, post pregnancy female pelvis, and interventional procedures. Specifically, the student learns and recognizes normal echo-texture of anatomy and pathology as it relates to the developing fetus. The student explores the importance of sonographic image quality as it relates to the anatomy, pathology, and developing second and third trimester fetus. This course is only offered in the spring semester. Prerequisite: Completion of IMAG 2220 and IMAG 2221.

IMAG 2251 1 CREDIT OB/GYN SONOGRAPHY II LAB

A course to be taken concurrently with IMAG 2250. Through laboratory experience, students actively demonstrate and experiment with the effects of technical factors, patient positioning, and recognition of normal echo-texture of anatomy and pathology of the second and third trimester pregnancy and post pregnancy female pelvis. Students perform ultrasounds of the second and third trimester pregnancy and post pregnancy female pelvis. This course is offered in the spring. Prerequisite: Completion of IMAG 2220 and IMAG 2221, and concurrent enrollment in IMAG 2250.

IMAG 2252 2 CREDITS INTRODUCTION TO VASCULAR SONOGRAPHY

This course is designed to introduce the student to the anatomy, pathology, and physiology along with the proper scanning protocols of arteries and veins. Specifically the student learns and recognizes normal pathological arterial blood flow in the peripheral vascular system and carotid arteries. and recognizes normal and pathological ankle-brachial indices. Students learn and recognize normal and pathological venous blood flow in the peripheral vascular system. The student explores the importance of sonographic image quality as it relates to the anatomy and pathology and learn to compare and contrast the results with other diagnostic procedures. This course is offered in the spring semester. Prerequisite: Completion of IMAG 2210.

IMAG 2253 I CREDIT INTRODUCTION TO VASCULAR SONOGRAPHY LAB

A course to be taken concurrently with IMAG 2252. Through laboratory experience, students actively demonstrate and experiment with the effects of technical factors, patient positioning, and recognition of normal and pathological of arterial and venous waveforms. Students perform ultrasounds of the carotid arteries, anklebrachial indices, and peripheral vascular systems. Prerequisite: Completion of IMAG 2210 and concurrent enrollment in IMAG 2252.

IMAG 2254 6 CREDITS DMS BEGINNING CLINICAL EXPERIENCE

This course is a beginning supervised clinical experience in an ultrasound imaging department. Students observe, perform, and correlate theory to practice on examinations of the abdomen, gravid and nongravid pelvis, and small parts. Students demonstrate knowledge of anatomic structures by correctly operating the sonography equipment. Students identify pathological processes of disease and normal anatomic variants. Participation in this course takes place at a hospital or clinic. Prerequisite: Completion of IMAG 2245.

IMAG 2255 1 1 CREDITS SONOGRAPHY CLINICAL EXPERIENCE I

This is a supervised clinical experience in an ultrasound imaging department. Students perform and correlate theory to practice on examinations of the abdomen, gravid and nongravid pelvis, and small parts. Students demonstrate the requested anatomic structures by correctly manipulating the equipment and proper transducer usage. Students identify pathological processes of disease and normal anatomic variants. Participation in this course will take place at a hospital or clinic. Prerequisite: Completion of IMAG 2254.

IMAG 2260 13 CREDITS SONOGRAPHY CLINICAL EXPERIENCE II

Students continue the clinical experience in an ultrasound imaging department. Students enhance their scanning and employee skills through clinical practice. Students apply and relate theory by scanning independently of the sonographer (with minimal supervision) on studies of the abdomen, gravid and nongravid pelvis, and small parts examinations. Prerequisite: Completion of IMAG 2255.

IMAG 2265 1 REGISTRY REVIEW I

1 CREDIT

Students prepare for successful completion of the American Registry for Diagnostic Medical Sonography national certifying examination by completing a comprehensive review of all prior courses in the sonography curriculum. Students develop and refine the analytical and test-taking skills necessary for passing the national certifying examination in Sonography. Students participate in group activities, mock examinations, and discussion to synthesize knowledge, attitudes, and skills professional sonography practice. (Students are required to complete a minimum of two computerized Mock Registry Sessions as part of the course. Time to be arranged with instructor.) Prerequisite: Successful completion of program courses or instructor approval.

IMAG 2270 REGISTRY REVIEW II

1 CREDIT

This is a continuation of IMAG 2265. Students prepare for successful completion of the American Registry for Diagnostic Medical Sonography national certifying examination by completing a comprehensive review of all prior courses in the sonography curriculum. Students develop and refine the analytical and test-taking skills necessary for passing the national certifying examination in Sonography. Students participate in group activities, mock examinations, and discussion to synthesize knowledge, attitudes, and skills professional sonographic practice. (Students are required to attempt their abdomen and obstetrical and gynecology registries during the last half of the course.) Prerequisite: Completion of IMAG 2265.

Diesel Technology

DESL 1500 3 CREDITS INTRODUCTION TO DIESEL TECHNOLOGY

An introductory course in diesel technology. Students develop knowledge of basic procedures used in diesel technology. Students gain skill in and knowledge of shop safety, tools and equipment, engine oil, diesel fuel, and engine performance technology.

DESL 1501 1 CREDIT AUTOMOTIVE AND DIESEL INDUSTRIAL SAFETY STANDARDS

Students are introduced to OSHA required pollution and safety standards within the lab environment.

5 CREDITS

DESL 1540 DIESEL ELECTRICAL

Students diagnose electrical circuits pertaining to light, medium, and heavy duty vehicles. Students acquire knowledge in basic electrical theories, circuit testing, motor circuits, batteries, charging systems, and starting systems. Prerequisite: Completion of DESL 1501.

DESL 1610 5 CREDITS ENGINE REBUILDING I

Students learn diesel engine theory and design. Students perform disassembly, diagnosis, reassembly and operation procedures. Students demonstrate skills in measuring, evaluating, and rebuilding engine parts to OEM specifications. Prerequisite: Completion of DESL 1501.

DESL 1650 5 CREDITS DIESEL FUEL SYSTEMS AND TUNING I

Students use scan tools to properly diagnose diesel computer control and fuel systems, including air intake and exhaust systems, intake manifold heater systems, superchargers and turbochargers. Students also bench-test fuel injection systems using state of the art equipment. Prerequisite: Completion of DESL 1501.

DESL 1700 DIESEL DRIVETRAIN

5 CREDITS

Students learn the theory and design of manual and automatic transmissions used in over-the-road and industrial applications. Students apply knowledge of hydraulic systems in hydrostatic, Allison transmissions, PTO drives, hydraulic fluid pumps and hydraulic controls, as well as the theory and operation of drive axles. Prerequisite: Completion of DESL 1501.

DESL 1755 5 CREDITS HEATING, AIR CONDITIONING, AND REFRIGERATION

Students are introduced to the basic principles that govern heating, air conditioning, and refrigeration used in diesel vehicles. Students acquire knowledge about and develop skills in the diagnosis and repair of heating, air conditioning, and refrigeration systems in accordance with manufacturers' specifications. Prerequisite: Completion of DESL 1501.

DESL 1850 3 CREDITS DIESEL HYDRAULIC FUNDAMENTALS

The student learns the principles, functions, and design of fluid power. The student repairs and troubleshoots hydraulic and pneumatic systems. Included are hydraulic and pneumatic valves, oils, gauges, filters, hoses, and other components.

DESL 1990 1-12 CREDITS ADVANCED ENGINE PERFORMANCE

Students learn advanced engine performance pertaining to both automotive and diesel applications. The course is designed to cover original equipment ignition timing controls, advanced emissions systems, turbochargers, super-chargers and naturally aspirated performance enhancements. Prerequisite: DESL 1540 or DESL 1765.

DESL 2505 3 CREDITS ADVANCED ENGINE PERFORMANCE Students learn to apply knowledge and use technical diagnostic equipment to advanced timing, fuel controls, advanced emission systems, naturally aspirated engine performance enhancements, and boost performance modifications for diesel engines. Prerequisite: Completion of AUTO 1765 or DESL 1540.

DESL 2515 4 CREDITS CAPSTONE COURSE FOR DIESEL TECHNOLOGY

Students consolidate the entire spectrum of their educational experience into the development of a project based learning Diesel Service Project. Students select a diesel project and Industry partner to develop a project plan and see the project to completion. Students present their project to the Industry partner(s) for their review upon the completion of the capstone course. Prerequisite: Instructor consent required.

DESL 2950 5 CREDITS AIR BRAKES, SUSPENSION AND STEERING

A course designed to provide students with the skills necessary to physically apply the principles of air brake and suspension systems. Students gain the ability to identify, assemble, adjust and repair hydraulic systems, air-over hydraulic systems, air brake systems, front suspension systems and rear suspension systems. This course also encompasses Department of Transportation approved procedures for vehicle highway safety regulations, preventative maintenance inspection, (PMI). Prerequisite: Completion of DESL 1501.

Economics

ECON 1000 3 CREDITS GLOBAL ECONOMIC ISSUES

An introduction to contemporary economic principles and the foundations of a market based economic system, with an emphasis on macroeconomic measurement. Students examine current economic issues and events.

ECON 1010 3 CREDITS PRINCIPLES OF MACROECONOMICS

An introduction to contemporary economic principles and the foundations of a market based economic system. Students analyze how economic principles are applied to the economic problem of scarcity. Students develop an understanding of how to measure economic performance, and explore the impact of policy on economic performance. Prerequisites: Completion of ENGL 1010 and MATH 0980 or MATH 1000 or equivalent test score.

ECON 1020 3 CREDITS PRINCIPLES OF MICROECONOMICS

Students examine how markets solve the issue of economic scarcity and how the decisions and behaviors of consumers, producers, government, and the market structure affect market outcomes. Students analyze market failure, where markets fail to produce efficient results, and describe the theoretical conditions needed for perfect competition. Prerequisite: Completion of MATH 1400.

ECON 1200 3 ECONOMICS, LAW, AND GOVERNMENT

Students acquire and demonstrate knowledge about how markets and free enterprise depend on supportive legal and political institutions. Students investigate and describe the influence of these governmental and legal institutions on markets and individual economic decisions. Topics to be covered include economic systems and economic reasoning; government fiscal actions and public policies; the economics of crime, pollution and poverty; relationships among market development, our legal framework and the U.S. political systems, and the constitutions of the U.S. and state of Wyoming. Prerequisite: Completion of MATH 0970 and ENGL 0810 or equivalent placement test score, or instructor approval.

Education

EDUC 2100 2 CREDITS PUBLIC SCHOOL PRACTICUM

In this capstone course, students explore educational topics such as classroom management, learning differences, and pedagogy in addition to working in a public school setting for a minimum of 30 hours. Students observe, assist in the classroom, and teach a formal lesson under the supervision of a classroom teacher in addition to LCCC coursework. Students must pass a background check to be eligible for this course. Prerequisite: Completion of or concurrent enrollment in EDFD 2100, and a GPA 2.5 higher.

EDUC 2280 3 CREDITS YOUNG ADULT LITERATURE

Students study works of literature for young adults, focusing on reading issues, adolescence, censorship, literary value, and life-long reading/learning. Students identify reading materials for young adult readers with a close examination of diversity including ethnicity, gender, and sexuality. This course is intended to provide teachers and others who work with young adults the opportunity to read and discuss literature that is written for or read by young adults in grades 6-12. Prerequisite: Completion of ENGL 1010 or instructor approval.

^{3 CREDITS} Education – Early Childhood

EDEC 1020 3 CREDITS INTRODUCTION TO EARLY CHILDHOOD EDUCATION

Students explore the field of early childhood education in this introductory course. Students visit different early childhood programs in the region to discover how teachers create an environment that values the uniqueness of each child. Students examine curriculum, child-development, and ethics as they apply to the early childhood profession. (Note: This course requires 10 hours of observation in early childhood settings; students must provide their own transportation to the sites.)

EDEC 1030 3 CREDITS INFANT AND TODDLER CARE/LAB

Students focus on developmental stages of children from conception to three years of age. Students examine the major areas of prenatal development; physical, social-emotional, and cognitive growth; developmentally and culturally appropriate environments; family partnerships; and the caregiver's role.

EDEC 1100 3 CREDITS OBSERVATION AND GUIDANCE OF YOUNG CHILDREN

Students observe children in a variety of early childhood settings and explore effective methods of guidance to meet the children's needs and to promote a positive and constructive climate. Students develop skills to plan effective environments and classroom management, prepare materials and equipment, develop schedules, and utilize assessment tools. Students work in direct contact with children throughout the course.

EDEC 1200 3 CREDITS ADMINISTRATION IN EARLY CHILDHOOD PROGRAMS

Successful students acquire knowledge and develop skills related to the business and human relations components of administering centers for young children. Students examine procedures in establishing early childhood centers, including fiscal management; selection, development, and motivation of staff; parent and community involvement; and program regulations and evaluations.

EDEC 1300 3 CREDITS CURRICULUM PLANNING AND REVIEW FOR YOUNG CHILDREN

Students develop skills in planning, implementing, and evaluating developmentally appropriate experiences to encourage intellectual, physical, social, emotional, and creative growth in young children with the focus on the whole child. Students spend time observing early childhood settings in this course.

EDEC 1482 3 CREDITS SKILLS FOR THE CHILD DEVELOPMENT ASSOCIATE (CDA)

This course is designed for students seeking the Child Development Associate (CDA). Students discuss best practices in child care to create a healthy and dynamic learning environment. Students become familiar with the CDA competency goals and create a professional portfolio.

EDEC 2200 4 CREDITS EARLY CHILDHOOD PRACTICUM

Students actively participate in the care and education of young children in an early childhood setting. Students plan lessons, design developmentally appropriate activities, and demonstrate effective classroom management skills during a 60 hour practicum experience, under the supervision of a classroom teacher in addition to LCCC coursework. Students focus on trends in the field of early childhood education. Prerequisite: Completion of EDEC 1020, or instructor approval.

Education – Educational Foundations

EDFD 1010 I CREDIT INTRODUCTION TO TEACHING

Students explore career options within the teaching profession through observations, discussions, and research. Prerequisite: Completion of ENGL 0810.

EDFD 2020 3 CREDITS FOUNDATIONS OF EDUCATION

Students explore the historical, philosophical, and sociological foundations of the American education system. Students become familiar with public school governance and financing. Students also cultivate an awareness of individual differences, diversity, and multiculturalism. Prerequisite: Completion of or concurrent enrollment in EDFD 1010.

EDFD 2100 3 CREDITS EDUCATIONAL PSYCHOLOGY

Students compare educational theories related to cognitive, socio-emotional, and moral development. Students create lesson plans and assessment instruments applicable to effective classroom instruction. Prerequisite: Completion of EDFD 2020.

EDFD 2330 2 CREDITS CHILD ABUSE AND NEGLECT

An examination of the tragic problem of child abuse. Students learn and demonstrate introductory knowledge of the nature, extent, and causes of child abuse; the types, indicators, symptoms, and effects of child abuse; the school's role in identification and investigation; reporting laws; therapeutic and medical programs/services; and the legal perspective and system. Presentations are conducted by professionals with special expertise about the child abuse problem. (S/U grade only)

Education – Educational Studies

EDST 2450 3 CREDITS HUMAN LIFE SPAN DEVELOPMENT

Students explore human development holistically from conception through late adulthood and death and dying. Students examine the physical, cognitive, social, cultural, and emotional aspects of being human. Prerequisite: Completion of ENGL 1010.

Education – Elementary Education

EDEL 1410 I CREDIT ELEMENTARY SCHOOL MATHEMATICS SEMINAR I

This course parallels the content of MATH 1100. Students experience topics from MATH 1100 through hands-on activities that will provide them with ideas for instructional practices they can model in their future classrooms. Students examine applications of the mathematical content to other areas of mathematics to develop their appreciation for the scope of mathematics as an academic field of study. Corequisite: Concurrent enrollment in MATH 1100.

EDEL 1430 1 CREDIT SEMINAR IN LIFE SCIENCE

Pre-service teachers explore basic concepts, curricular activities, and materials appropriate for the elementary school setting as they relate to the biological sciences. It is recommended that this course be taken concurrently with a biology course.

EDEL 1440 I CREDIT PHYSICAL SCIENCE IN THE ELEMENTARY SCHOOL

A selection of basic physical science concepts, materials, and curricula appropriate for elementary schools. The preservice elementary education teacher develops knowledge of the fundamental concepts of physical science and inquiry skills. In addition, the preservice elementary education teacher develops positive attitudes toward teaching science. This course parallels the content of the University of Wyoming's CHEM/ PHYS 1090 or any LCCC physical science course and should be taken concurrently. Prerequisite: Successful completion of ENGL 1010 with a grade of "C" or higher.

EDEL 1450 I CREDIT EARTH SCIENCE IN THE ELEMENTARY SCHOOL

Students explore basic earth science concepts, materials, and curricula applicable to teaching in the elementary classroom. Students investigate various topics including meteorology, astronomy, geography, and geology. It is recommended that this course be taken concurrently with an earth science lab course.

EDEL 2280 3 CREDITS LITERATURE FOR CHILDREN

Students read and analyze children's literature and demonstrate its use to teach all academic subjects. Students evaluate works within the genres of children's literature and report on, develop, and model the use of children's books in elementary classrooms. Prerequisite: Completion of ENGL 1010.

EDEL 2410 I CREDIT ELEMENTARY SCHOOL MATHEMATICS SEMINAR II

This course parallels the content of MATH 2120. Students experience exploratory and hands-on learning of the topics from MATH 2120 so that they can model this method of learning in their future classrooms. Students must be concurrently enrolled in MATH 2120.

Education – Exceptional Children

EDEX 1060 2 CREDITS INTRODUCTION TO GIFTED AND TALENTED EDUCATION

Students examine the characteristics, identification processes, and unique needs of the gifted learner. Students compare educational theories, programs, and best practices in teaching gifted and talented learners.

EDEX 2484 INTRODUCTION TO SPECIAL EDUCATION

Students identify the characteristics and needs of exceptional learners, including those who are intellectually gifted. Students explore legislation, categories of disability, incidents and etiology, diagnostic and therapeutic services, educational programs, and resources that address the needs of individuals with disabilities. Prerequisite: Completion of ENGL 1010.

3 CREDITS

Education – Instructional Technology

ITEC 2360 3 CREDITS TEACHING WITH TECHNOLOGY

In this course for pre-service teachers, students discover how technology can be used to enhance teaching and learning. Students explore a variety of technological and educational resources. Additionally, information literacy, digital responsibility, and effective digital communication are evaluated for applicability in the K-12 classroom.

ITEC 2365 I CREDIT TEACHING AND LEARNING ONLINE

This course is designed for instructors who are interested in online teaching and learning practices. Learners develop strategies for designing online courses and for teaching and learning at a distance. They examine online course design, implementing best practices, designing and implementing learning communities, familiarization with LCCC online procedures, strategies for managing learning online, uses of technologies including LCCC's course management system, and methods for evaluating course quality. (S/U grade only)

Emergency Medical Services—Paramedics

EMGT 2500 PARAMEDIC PREPARATORY

2 CREDITS

A study of comprehensive concepts that prepare an EMT for national and state paramedic certification. Students analyze EMS systems, paramedic roles and responsibilities, paramedic wellbeing, illness/injury prevention, medical/ legal issues, and healthcare ethics. Prerequisite: Completion of entrance exam and instructor approval.

EMGT 2515 PARAMEDIC ANATOMY AND PHYSIOLOGY

Students explore fundamental anatomy and physiology concepts related to paramedic practice. Students integrate a complex depth and comprehensive breadth of knowledge of the anatomy and physiology of all human systems. Prerequisite: Completion of entrance exam and instructor approval.

EMGT 2525 2 CREDITS PARAMEDIC PHARMACOLOGY

Students explore fundamental pharmacology concepts related to paramedic practice. Students integrate a complex depth and comprehensive breadth of knowledge of pharmacology and the human body. Prerequisite: Completion of entrance exam and instructor approval.

EMGT 2535 PARAMEDIC AIRWAY

2 CREDITS

3 CREDITS

Students integrate a complex knowledge of anatomy, physiology, and pathophysiology into an airway assessment and airway procedures. Students develop a treatment plan with the goal of assuring a patent airway, adequate ventilation, and respiration for patients of all ages. Prerequisite: Completion of entrance exam and instructor approval.

EMGT 2545 4 CREDITS PARAMEDIC ADVANCED CARDIAC LIFE SUPPORT

Students investigate complex knowledge of anatomy, physiology, and pathophysiology into a cardiovascular assessment and perform basic and advanced ECG interpretation and electrical therapy procedures. Students develop a treatment plan for patients with cardiovascular disease and ECG abnormalities. Prerequisite: Completion of entrance exam and instructor consent.

EMGT 2555 3 CREDITS PARAMEDIC ADVANCED MEDICAL LIFE SUPPORT

Students integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for a patient with a medical complaint. Prerequisite: Completion of entrance exam and instructor consent.

EMGT 2565 2 CREDITS PARAMEDIC PRE-HOSPITAL TRAUMA LIFE SUPPORT

Students integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a comprehensive treatment/disposition plan for an acutely injured patient. Prerequisite: Completion of EMGT 2555.

EMGT 2575 3 CREDITS PARAMEDIC SPECIAL POPULATIONS AND OPERATIONS

Students integrate assessment findings with principles of pathophysiology and knowledge of psychosocial needs to formulate a field impression and implement a comprehensive treatment/ disposition plan for patients with special needs. Students also gain knowledge of operational roles and responsibilities to ensure safety for the patient, the public and themselves. Prerequisite: Completion of EMGT 2555.

EMGT 2600 5 CREDITS PARAMEDIC CLINICAL

Students perform live patient care supervised by a preceptor in the hospital setting. Prerequisite: Completion of EMGT 2555.

EMGT 2620 7 CREDITS PARAMEDIC VEHICULAR I

This course is a hands-on vehicular/ clinical experience that prepares an EMT I for national paramedic certification. Students gain knowledge and skills in chest pain, respiratory distress, abdominal complaints, altered mental status, behavioral issues, obstetrics, trauma, pediatric and adult assessments, venous access, medication administration, ventilation and other additional skills. Prerequisite: Completion of EMGT 2600.

EMGT 2630 6 CREDITS PARAMEDIC VEHICULAR II

This course is a hands-on vehicular/ clinical experience that prepares an EMT I for national paramedic certification. Students gain knowledge and skills in chest pain, respiratory distress, abdominal complaints, altered mental status, behavioral issues, obstetrics, trauma, pediatric and adult assessments, venous access, medication administration, ventilation and other additional skills. Prerequisite: Completion of EMGT 2600.

EMGT 2700 3 CREDITS PARAMEDIC CAPSTONE

Students prepare for the State and National Registry Examinations. Students practice final skills, review for the examinations, and organize their vehicular/clinical documentation for course completion. Prerequisite: Completion of EMGT 2600.

Emergency Medical Technology

EMT 1500 6 CREDITS EMERGENCY MEDICAL TECHNICIAN BASIC (EMT-B)

Students prepare to identify medical and trauma emergencies and are able to provide appropriate interventions in this entry-level course. Successful students are able to work in the field of prehospital emergency medicine as paid or volunteer providers after the completion of this course and after passing the state certification exam. Prerequisites: AHA Healthcare Provider CPR (or equivalent) and proof of required immunizations. Basic Emergency Care (BEC) certificate is helpful. Instructor consent required.

Engineering Science

ES 1060 3 CREDITS INTRODUCTION TO ENGINEERING COMPUTING

An introduction to spreadsheets and structured programming for engineering students. Students learn the methodology used in the engineering profession for analyzing problems. In laboratory, students solve example problems using appropriate computer software. Corequisite: Concurrent enrollment in MATH 2200.

ES 2110 STATICS

3 CREDITS

An introduction to the statics of particles and rigid bodies and to the analysis of structures. Students apply equilibrium conditions to physical systems (including particles, rigid bodies, trusses, frames, and machines) using free body diagrams and vector analysis. Corequisite: Concurrent enrollment in MATH 2205.

ES 2120 DYNAMICS

3 CREDITS

A study of the dynamics of particles and rigid bodies. Students apply laws of motion to analyze the dynamics of particles and rigid bodies, including momentum and energy considerations. Prerequisite: Completion of ES 2110 and MATH 2205.

ES 2210 4 CREDITS ELECTRIC CIRCUIT ANALYSIS

A study of electric circuits and their theoretical base. Students apply theoretical tools such as network theorems and phasors to analyze electric circuits, including dependent sources, first and second order circuits, and threephase power systems. The accompanying laboratory reinforces electric circuit principles. Prerequisite: Completion of MATH 2205.

ES 2310 THERMODYNAMICS I

4 CREDITS

A study of the thermodynamics of macroscopic systems. Students learn about energy and its various forms, state variables and equations of state, pure substances and property tables, reversible and irreversible processes. Students also apply laws of thermodynamics to analyze power, heat pump, and refrigeration cycles. Prerequisite: Completion of ES 2120, MATH 2210, and PHYS 1310.

ES 2330 FLUID DYNAMICS

3 CREDITS

A study of the incompressible flow of ideal and real fluids. Students learn about fundamental concepts such as potential functions, stream functions, and dimensional analysis. Students also apply equations of fluid dynamics to solve fluid flow problems such as flow in pipes and open channels. Prerequisite: Completion of ES 2120, MATH 2210, and PHYS 1310.

ES 2410 3 CREDITS MECHANICS OF MATERIALS

A study of stresses inside deformable bodies. Students apply statics as well as new techniques such as Mohr's circle to perform stress analysis of deformable bodies. Prerequisite: Completion of ES 2110 and MATH 2205.

Engineering Technology

ENTK 1005 1 CREDIT ENGINEERING PROBLEM SOLVING WITH SPREADSHEETS

Students solve engineering problems through the use of computer spreadsheets. Topics include functions, referencing, conditional statements, graphs, trend lines, and iterative solvers. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

ENTK 1080 4 CREDITS PRINCIPLES OF TECHNOLOGY

Students develop necessary skills and knowledge in the principles of technology as applied to the scientific concepts and laws of force, work, rate, resistance, energy,and power. Students gain an understanding and working knowledge of these principles through practical application experiences. The course is specifically designed for students, both science and nonscience majors, who plan to pursue careers as technicians. Cross-listed as PHYS 1080. Prerequisite: Completion of MATH 0980 or equivalent placement test score.

ENTK 1515 TECHNICAL DRAFTING

In this course, students develop manual drafting skills for technical communication and solving graphical problems. Students gain knowledge in lettering, single-view drawings, descriptive geometric construction, multi-view projections, auxiliaries, sections, oblique, isometrics, and perspectives. Students also gain comprehension of visualization and spatial problems. Prerequisite: Completion of MATH 0980 or equivalent placement test score.

3 CREDITS

ENTK 1520 3 CREDITS DRAFTING II

The second course in a two-semester sequence where students develop drafting skills in auxiliaries, sections, obliques, isometrics, and descriptive geometry. Prerequisites: Completion of ENTK 1515 and MATH 0980 or equivalent placement test score.

ENTK 1560 3 CREDITS FREEHAND SKETCHING, INKING, AND RENDERING FOR DRAFTING

In this course, students develop sketching and inking skills in singleview drawings, multi-view projections, auxiliaries, sections, oblique, isometrics, and perspectives. Students render technical sketches applying the process of creating, shading, and texturing an image.

ENTK 1570 3 CREDITS INKING FOR DRAFTERS

A course where students acquire and demonstrate manual inking skills on polyester film utilizing technical ink pens and mechanical lettering devices. Prerequisite: Completion of ENTK 1520.

ENTK 1740 3 CREDITS ARCHITECTURAL BUILDING INFORMATION MODELING DESIGN I

In this course, students examine basic topics in architectural CADD software combined with an emphasis in residential architectural design. Successful students acquire knowledge and develop skills in 3-dimensional modeling, parametric building design, building information modeling (BIM), site planning and preparation, and presentation. Students begin to evaluate building codes, materials, structures, and architectural design, and gain experience with construction documents. Prerequisite: Completion of MATH 0980 or equivalent placement test score, or instructor approval.

ENTK 2070 3 CREDITS ENGINEERING SURVEYING

Students learn the basic land surveying principles of measuring distances, elevations, and angles. Students learn to apply methods of calculations and applications for error theory in measurements. Students are introducted to surveying instruments and equipment along with the methods of surveying for site locations and construction sites. Prerequisite: Completion of MATH 1405 or instructor approval.

ENTK 2500 3 CREDITS COMPUTER-AIDED DRAFTING I

An introductory course in CAD. Students learn how to create a drawing, make changes, and output to paper. Prerequisite: Completion of MATH 0980 or equivalent placement test score, or instructor approval.

ENTK 2505 3 CREDITS COMPUTER-AIDED DRAFTING II

A continuation of ENTK 2500 using advanced CAD skills. Prerequisite: Completion of ENTK 2500 or instructor approval.

ENTK 2510 3 CREDITS COMPUTER-AIDED DRAFTING III

This course is a continuation of ENTK 2505. Students acquire knowledge in advanced AutoCAD features such as viewports, hatches, line types, 3-D objects, solid modeling, paper spare plotting, and AutoLISP. The course is for practicing professionals (engineers and technicians). Prerequisite: Completion of ENTK 2500 or instructor approval.

ENTK 2520 3 CREDITS ADVANCED MECHANICAL DRAFTING

An advanced drafting course where students produce three sets of advanced machine working drawings, including the tolerancing of mating parts. Drawing will be done using AutoCAD. Prerequisite: Completion of ENTK 2500 or instructor approval.

ENTK 2540 3 CREDITS ARCHITECTURAL BUILDING INFORMATION MODELING DESIGN II

In this course, students examine advanced topics in architectural CADD software combined with an emphasis in commercial architectural design. Successful students acquire knowledge and develop skills in 3-dimensional modeling, geometry, spatial relationships, form, structural systems, and properties of building components. Students apply BIM to demonstrate the entire building of construction and facility operation. Prerequisite: Completion of ENTK 1740 or instructor approval.

ENTK 2550 3 CREDITS CIVIL DRAFTING TECHNOLOGY

A course where students learn to solve a wide variety of civil drafting problems by completing written assignments and drawings utilizing AutoCAD. Prerequisite: Completion of ENTK 2500 or instructor approval.

ENTK 2555 3 CREDITS MANUFACTURING AND DESIGN I

Students develop knowledge and skills for creating and constructing basic manufacturing drawings, making modifications to existing drawings, and performing basic paper output through printing techniques. Students practice construction techniques of basic objects and perform proper drafting etiquette while gaining experience in geometric problem-solving analysis. Prerequisite: Completion of ENTK 2500 or instructor approval.

ENTK 2560 3 CREDITS MANUFACTURING AND DESIGN II

Students develop advanced knowledge and skills of the application for creating and constructing work manufacturing drawings, making modifications to existing drawings, and performing paper output through printing techniques. Students practice advanced construction techniques of complex objects, basic assembly of objects, and perform proper drafting protocol. Prerequisite: Completion of ENTK 2555 or instructor approval.

ENTK 2570 AUTODESK TOOLS:

3 CREDITS

Students develop knowledge and skills in creating drawings that are necessary to communicate project intent. The course employs realistic scenarios in order for students to acquire the ability to develop, plan, and implement working drawings of a project utilizing a variety of AutoDesk tools such as Architectural, Mechanical, Land Desktop, and Revit Structural Building Systems.

ENTK 2580 MICROSTATION I

3 CREDITS

Students develop knowledge and skills for creating and constructing mechanical drawings, making modifications to existing drawings, and performing basic paper output through printing techniques. Students practice construction techniques of basic objects and perform proper drafting etiquette. Prerequisite: Completion of MATH 0980 or equivalent placement test score, or instructor approval.

ENTK 2585 MICROSTATION II

Students develop advanced knowledge and skills of the application for creating and constructing working mechanical drawings, making modifications to existing drawings, and performing paper output through printing techniques. Students practice advanced construction techniques of complex objects and perform proper drafting protocol. The course is designed for students seeking employment at state engineering institutions. Prerequisite: Completion of ENTK 2580 or instructor approval.

2 CREDITS

2 CREDITS

ENTK 2590 MICROSTATION III

Students develop knowledge and skills for creating and modeling 3-D objects, making modifications to existing objects, and performing paper output through rendering techniques. Students practice basic 3-D construction techniques of objects and prepare drawings to be printed to industry standards. The course is designed for students seeking employment at state engineering institutions. Prerequisite: Completion of ENTK 2585 or instructor approval.

ENTK 2598 2 CREDITS MICROSTATION TOOLS

Students develop knowledge and skills in creating drawings that are necessary to communicate project intent. The course employs realistic scenarios in order for students to acquire the ability to develop, plan, and implement working drawings of a project utilizing a variety of MicroStation tools such as GeoPak Civil, InRoads, TriForma, Structural, HVAC, and Descartes.

ENTK 2610 3 CREDITS CONSTRUCTION MATERIALS AND METHODS

In this course, students investigate various materials and methods used in construction. Students acquire knowledge in fundamental principles of structural, physical, long-term performance, and product manufacturing techniques. Students also analyze and compare different material applications and detailing of structural and nonstructural building components in both construction and architectural design. Common construction methods are introduced, and building details are explored. Prerequisite: Completion of ENGL 0810 or equivalent placement test score, or instructor approval.

ENTK 2660 3 CREDITS FUNDAMENTALS OF CONSTRUCTION COST ESTIMATION

In this course, students investigate the basic concepts of construction planning, specification, and blueprint reading. Using traditional hand methods and computer-enhanced procedures, students acquire knowledge and develop skills in estimating quantity and cost activities for general conditions, site work, concrete and form work, and masonry estimating. Prerequisite: Completion of ENTK 2610 or instructor approval.

English

ENGL 0810 6 CREDITS FUNDAMENTALS OF READING AND WRITING

Students practice critical reading and academic writing as a process and develop interrelated literacy skills to improve their success in college-level courses. Prerequisite: Appropriate placement score.

ENGL 0910 3 CREDITS LITERACY ENHANCEMENT FOR COMPOSITION I

Students practice research, reading, and writing as a process in order to develop literacy skills for success in college-level courses. Students must be co-enrolled in the Composition I course. Corequisite: ENGL 1010. Prerequisite: Appropriate COMPASS/ACT placement score or successful completion of ENGL 0810.

ENGL 1010 3 CREDITS ENGLISH I: COMPOSITION

A composition course emphasizing expository and persuasive writing using computers. Students write six-eight expository essays that employ all stages of the writing process. Students conduct college-level research; practice critical reading and analysis; logically organize essays through claims and evidence; apply knowledge of audience, purpose, and genre within writing assignments, following standardized conventions of English grammar and MLA formatting. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

ENGL 1020 3 CREDITS COMPOSITION II

Students independently gather material from primary and secondary research; critically read and analyze material; synthesize information; write expository essays in a variety of academic genres; and document sources according to appropriate styles. Prerequisites: Completion of ENGL 1010.

ENGL 1050 3 CREDITS LITERATURE AND FILM--1940 TO PRESENT

Focuses on the visual and verbal elements of films and the interrelationships between films and their literary origins. In their answers to factual questions on in-class exams, students demonstrate, orally and in writing, their ability to analyze, compare, and evaluate novels and narrative films. Prerequisite: Completion of ENGL 1010 or equivalent placement test score.

ENGL 2005 3 CREDITS WRITING IN TECHNOLOGY AND THE SCIENCES

Students analyze audience and purpose to create various written communications specifically for technological and scientific fields of study. Students read and discuss readings, write for the appropriate audiences and purposes, learn and apply the appropriate in-text and bibliographical formats, and apply evaluation tools to their own and others' papers. Prerequisite: Completion of ENGL 1010.

ENGL 2020 3 CREDITS INTRODUCTION TO LITERATURE

Students critically read and interpret texts in a variety of literary genres, periods, and movements; explore multiple theories of reading and discourse; and write analytical essays about literature. Prerequisite: Completion of ENGL 1010.

ENGL 2030 3 CREDITS CRITICAL READING AND WRITING

Students analyze a variety of rhetorical modes in this advanced composition course, which involves the complementary activities of writing and reading. Prerequisite: Completion of ENGL 1020.

ENGL 2040 CREATIVE WRITING

3 CREDITS

Students develop tools based in the tradition of creative writing, tools with which they will create their own poetry, fiction, and creative nonfiction. Students read and study an array of poetry, fiction, and creative nonfiction too in order to absorb best practices for developing craft. Students participate in writing workshops. May be repeated for up to two times for credit. Prerequisite: Completion of ENGL 1010.

ENGL 2041 3 CREDITS CREATIVE WRITING: NONFICTION AND POETRY

In this scholarly course, students develop tools based in the tradition of creative writing, tools with which students will create their own poetry and creative nonfiction. Students read and study an array of poetry and creative nonfiction in order to absorb best practices for developing craft in these two genres. Students are expected to participate in writing workshops that include written and verbal/discussion-based feedback. May be repeated for up to two times for credit. Prerequisite: Completion of ENGL 2040 or instructor approval.

ENGL 2042 CREATIVE WRITING: FICTION AND DRAMA

In this scholarly course student develop tools based in the tradition of creative writing, tools with which they will create their own fiction and drama. Students read and study an array of fiction and drama in order to absorb best practices for developing craft in these two genres. Students are expected to participate in writing workshops that include both written and verbal/discussion-based feedback. May be repeated for up to two times for credit. Prerequisite: Completion of ENGL 2040 or instructor approval.

ENGL 2095 WRITING YOUR LIFE

In this scholarly course, students write memoirs about the stories that have shaped their lives. Students read an array of published creative nonfiction in the form of personal essay and memoir, referring to them in discussion of how personal stories teach us profound lessons about ourselves, others, and our world. Students use the writing process in development of their memoirs and are expected to participate in writing workshops that include both written and verbal/discussion-based feedback. May be repeated for up to two times for credit. Prerequisite: Completion of ENGL 2040.

ENGL 2100 LITERARY MAGAZINE

1-2 CREDITS

3 CREDITS

3 CREDITS

Students prepare to assume the responsibility of publishing a literary/ arts magazine once a year. Students fulfill responsibilities in a variety of areas: recruitment, publicity, marketing, fundraising, sales, submission selection process, desktop publishing, magazine layout, and other editorial duties. May be repeated for up to 6 credits. Prerequisite: Approval of instructor.

ENGL 2140 3 CREDITS WORLD LITERATURE

Students study a survey of significant works of seminal literature spanning a spectrum of genres, time periods, histories, and cultures. Literature works will span from the works of ancient cultures and continue through present day. Students analyze texts through discussions and formal writing assignments. Prerequisite: Completion of ENGL 1010.

ENGL 2210 3 CREDITS ENGLISH LITERATURE: MIDDLE AGES TO THE RESTORATION

Students survey the major authors and literary movements in English literature beginning with the Middle Ages and continuing through The Restoration. Prerequisite: Completion of or concurrent enrollment in ENGL 2020.

ENGL 2220 3 CREDITS ENGLISH LITERATURE: THE ROMANTIC PERIOD TO THE PRESENT Students survey the major authors and literary movements in English literature beginning with the Romantic Period and continuing through the present day. Prerequisite: Completion of or concurrent enrollment in ENGL 2020.

ENGL 2230 3 CREDITS INTRODUCTION TO SHAKESPEARE

Students examine Shakespeare's writings, including selections from his histories, comedies, tragedies and romances, as well as his poetry. Alongside close readings of his texts, students explore contexts of Shakespeare's plays and poetry, both those contemporary to Shakespeare and those contemporary to the modern world, in order to address the lasting nature of his work. Prerequisite: Completion of or concurrent enrollment in ENGL 2020.

ENGL 2270 3 CREDITS MODERN WOMEN WRITERS

A literature course emphasizing writing by women from 1899 to present day. Students recognize and critique texts written by women of diverse identities and ethnicities in a variety of literary genres and forms. Students examine themes of gender, ethnicity, class, marginalization, and agency in course texts. Students demonstrate basic vocabulary of literary criticism, particularly feminist criticism. Students write literary analysis essays and conduct scholarly research on issues connected to women in modern society. Prerequisite: Completion of ENGL 2020.

ENGL 2310 3 CREDITS AMERICAN LITERATURE: PRE-COLONIAL TO CIVIL WAR

Students survey the major figures and literary movements in the United States beginning with the pre-colonial period and continuing through the Civil War. Students gain an understanding of the historical, political, philosophical, and religious influences upon early American literature. Prerequisite: Completion of or concurrent enrollment in ENGL 2020.

ENGL 2320 3 CREDITS AMERICAN LITERATURE: CIVIL WAR TO PRESENT

Students survey the major figures and literary movements in the United States from the Civil War to present, including naturalism, realism, modernism, and post-modernism eras. Students gain an understanding of the historical, political, philosophical, and religious influences upon later American literature. Prerequisite: Completion of or concurrent enrollment in ENGL 2020.

ENGL 2330 3 CREDITS CONTEMPORARY AND MULTICULTURAL LITERATURE

This course investigates post-World War II literature in English, including fiction, poetry, and essays by ethnic writers. Students examine the "American Dream" as relevant to contemporary American life through discussion of such issues as pluralism, discrimination, class and cultural conflict, and gender issues. Cross-listed with HUMN 2330. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

ENGL 2340 3 CREDITS NATIVE AMERICAN CULTURE AND LITERATURE

Students engage in a broad cultural study of Native Americans, past and present. The course examines and engages in critical evaluation of the social and historical contexts surrounding Native American through selected biographies, novels, short stories, poetry and/or drama. Students address the way Native American identity grows out of the borderland between oral and written traditions and western and Native American culture. Prerequisite: Completion of ENGL 1010 or equivalent placement test score.

ENGL 2411 3 CREDITS LITERARY GENRES: GRAPHIC NOVELS

Students study the literary and aesthetic features of graphic novels. Students read an array of graphic novels that explore various thematic, cultural, genre, and philosophical issues. Students analyze texts through discussions and formal writing assignments. Prerequisite: Completion of ENGL 1010.

ENGL 2420 LITERARY GENRES:

Studies specific genres of literature. Emphasis will vary from semester to semester, depending on curricular needs. May be repeated for up to two times for credit. Prerequisite: Completion of ENGL 1010.

3 CREDITS

3 CREDITS

ENGL 2450 3 CREDITS LITERARY GENRES: SCREENWRITING

As the foundation upon which a film is constructed, screenwriting is a form of creative writing concerned less with creating a world than proposing a world to be created by directors, actors, and others. Through critique sessions of numerous films, students analyze and scrutinize films from the point of view of construction. Using round robin screenwriting workshops, students compose their own original screenplays in full awareness of the significance of character, dialogue, motif, narrative convention, and progress. Prerequisite: Completion of ENGL 1010 or equivalent placement test score.

Entrepreneurship

ENTR 1500 INTRODUCTION TO ENTREPRENEURSHIP

An introductory course that explores the small business climate, the identification of entrepreneurial traits, and the feasibility of a business opportunity. Students analyze and determine how to obtain the skills needed to own, operate, and manage a small business successfully. Students determine the market and industry research necessary to define the scope of a business opportunity. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

ENTR 1520 3 CREDITS CREATING A BUSINESS PLAN

Students evaluate a business opportunity, collect and organize research data into a marketing plan, and prepare a financial plan for their small business idea. In addition, students gain skills to be able to continue developing their business plan as they learn new information and gain ability to make a "go" or "no-go" determination. Prerequisite: Completion of ENTR 1500.

ENTR 1590 1-2 CREDITS ENTREPRENEURIAL LEADERSHIP I

College credit earned for handson experience in entrepreneurial leadership activities. Students have the option to choose among small business internships, free enterprise team activities, developing their small business in the student innovation center, participating in entrepreneurship competition events and/or other advisor-approved activities. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

ENTR 2500 2 CREDITS SMALL BUSINESS OPERATIONS MANAGEMENT

Students develop skills for introducing new products and services, quality management, process design, job design, technology management, and related business design decisions. Students also develop operations decision-making skills for inventory, materials, scheduling, and planning specific to the needs of a small business as it progresses through the business life cycle. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

ENTR 2540 2 CREDITS SMALL BUSINESS FINANCIAL MANAGEMENT

A course that focuses on developing skills for financial management of a small business. Students prepare and analyze both personal and business financial statements. Students also develop decision-making skills grounded in profitability, break-even analysis, forecasting, and working capital management. Students are encouraged to use their own businesses or use case study businesses for development of statements. Prerequisite: Completion of ACCT 2010.

ENTR 2550 3 CREDITS SOCIAL AND INTERNET TECHNOLOGIES

Students explore the current social and internet mediums as they relate to business in today's world. Students examine venues including quickly changing online technologies and mobile mediums. Students analyze the issues with which marketers wrestle today as they navigate the new tools and challenges including blogs, social networking, user-generated content, and video as well as others. Prerequisite: Completion of ENTR 1500.

Equine Studies

EQST 1505 BASIC HORSEMANSHIP

4 CREDITS

4 CREDITS

Designed for beginning horsemen who desire training in horsemanship skills and horse care. Students are introduced to proper horse handling, safety, saddling, round penning, and basic riding skills. Prerequisite: Acceptance into the Equine Science program.

EQST 1515 EQUINE SCIENCE I

Students are introduced to the fundamental concepts in Equine Science. Students acquire an understanding of history, breed characteristics, selection, skeletal anatomy, dentistry and basic hoof care of horses. Foundation knowledge of equine husbandry and care is applied to an industry setting with the use of hands-on laboratories.

EQST 1535 BASIC HORSE CARE

2 CREDITS

A course where students learn appropriate methods of horse care. Students demonstrate a knowledge of stabling facilities, pasture management, nutrition, conformation, diseases, vaccinations, lameness, hoof care, wound management, restraint, reproduction, and pregnant mare and foal care.

EQST 1550 3 CREDITS EQUINE EVALUATION I

A course geared to the evaluation of a horse's conformation and performance including terms used in horse judging, evaluation of conformation, and evaluation of performance.

EQST 1565 2 CREDITS BASIC TRIMMING AND HOOF CARE

A basic course on proper trimming techniques and minor corrective work. Students gain actual experience trimming horses under supervision. Students must provide their own tools.

EQST 1570 HORSESHOEING I

3 CREDITS

2 CREDITS

A basic course on proper trimming and shoeing. Topics include leveling and balancing feet, shaping shoes to horse's feet, nailing, and clinching. Students gain knowledge of the anatomy and physiology of the lower leg and foot. Students shoe live horses when competent enough, with instructor permission. Students must provide their own tools.

EQST 1600 EQUINE FITTING AND SHOWING TECHNIQUES

Students develop basic skills needed for training, preparing, and exhibiting horses in halter, western horsemanship, western pleasure, western riding, and reining. Techniques are presented in a lecture/ lab setting, both in the classroom and animal science lab using demonstration animals.

EQST 1615 2 CREDITS GREEN HORSE/GREEN RIDER

An introductory course designed for student riders and/or horses who are unprepared for more advanced training or equitation courses. Students set and achieve individual goals with the aid of the instructor. Prerequisite: Students must provide their own horses, which are broken to ride and under control.

EQST 1620 2 CREDITS INTRODUCTION TO JUMPING

Students develop basic jumping skills. Students enrolling for this class should have prior background in hunt seat equitation. Students are required to demonstrate proper jumping and hunt seat equitation techniques. Suitable helmet with harness and boots required. Horses must be serviceably sound.

G EQST 1625 2 CREDITS GREEN HORSE/GREEN RIDER II

A continuation of EQST 1615, a course in which student riders and/or horses have mastered basic techniques. Student riders and horses demonstrate continued refinement of gaits, communication responses, and equitation techniques. Humane equine care is demonstrated and critiqued. Prerequisites: Students must provide their own horses. Completion of EQST 1615 or permission of the instructor.

EQST 1650 2 CREDITS EQUINE EVALUATION II

A continuation of EQST 1550. Students examine breed and association standards for the judging of equine classes. Students also develop vocabulary and utilize proper terminology for the discussion of these equine classes. Equine classes examined in this course include Western Pleasure, Hunter Under Saddle, Reining, Western Riding, Hunter Hack, and Pleasure Driving. Prerequisite: Completion of EQST 1550 and consent of instructor.

EQST 1710 2 CREDITS BASIC FUNDAMENTALS IN CUTTING HORSES

Students acquire and demonstrate the basics of positioning the horse in cutting competition and improve livestock handling skills, horse placement techniques, and horse training techniques. Students will be charged a livestock fee. Prerequisites: Students must have basic riding skills and supply their own horses.

EQST 1720 BASIC ROPING

This basic course is designed to help students acquire proper calf roping, heading, and heeling techniques. Students learn to use the appropriate type of rope and the proper basic rope swing for each event. Students demonstrate mental and physical preparation and proper equipment use. At the end of the course, students demonstrate technique improvement.

EQST 1725 2 CREDITS RODEO ROUGH STOCK I

This course is designed as an initial preparatory course in the rodeo rough stock events. Students acquire basic knowledge in the individual events so they may ride competitively at NIRAsponsored events. They demonstrate safety procedures, mechanical consistency, event rules, and mental and physical preparation. A livestock fee will be charged to each student. Enrollment by consent of instructor.

EQST 1730 2 CREDITS RODEO ROUGH STOCK II

This course is the second in the series of rodeo rough stock classes. Students elevate basic knowledge in the individual events so they can ride competitively at NIRA-sponsored events. They demonstrate mechanical consistency, substantial improvement in their mental and physical preparation, safety procedures, and event rules. A livestock fee will be charged to each student. Enrollment by consent of instructor.

EQST 1735 2 CREDITS INTRODUCTION TO ROUGH STOCK/TIMED EVENTS

An introductory course in rodeo rough stock and timed events. Students acquire basic knowledge about individual rodeo events. They gain an understanding of safety procedures, events rules, mental and physical preparation, horse and livestock handling procedures, and proper equipment usage. A livestock fee will be charged to each student. Enrollment is by consent of instructor.

EQST 1740 2 CREDITS RODEO TIMED EVENTS I

This course is designed as an initial preparatory course in the rodeo timed events. Students acquire basic knowledge in the individual events so they can compete effectively at NIRA-sponsored events. They demonstrate mechanical consistency, substantial improvement in their mental and physical preparation, safety procedures, and events rules. A livestock fee will be charged to each student. Enrollment by consent of instructor.

EQST 1750 2 CREDITS RODEO TIMED EVENTS II

This course is designed as an initial preparatory course in the rodeo timed events. Students acquire basic knowledge in the individual events so they can compete effectively at NIRA-sponsored events. They demonstrate mechanical consistency, substantial improvement in their mental and physical preparation, safety procedures, and event rules. A livestock fee will be charged to each student. Enrollment by consent of instructor.

EQST 1760 ALTERNATIVE RODEO TIMED EVENTS I

This course is the first in a series of courses dealing with barrel racing and/ or goat tying. Students acquire skills in these events, enhance their competitive abilities, and demonstrate safety procedures, horsemanship techniques, practice methods, and mental and physical preparation. A livestock fee will be charged. Enrollment by consent of instructor.

2 CREDITS

2 CREDITS

EQST 1765 ALTERNATIVE RODEO TIMED EVENTS II

This is the second in a series of rodeo courses designed to increase knowledge of and skills in barrel racing and/or goat tying. Students enhance their basic skills and knowledge of NIRA rules and safety procedures in these events while improving their competitive abilities through supervised practical application. A livestock fee will be charged. Prerequisite: Completion of EQST 1760 or consent of instructor.

FOST 1770 2 CREDITS BASIC REINING TECHNIQUES

Students acquire knowledge about and develop skills in the training and riding of reining horses. Topics include leg controls, backing, circles, picking up leads, changing leads, turn-arounds, roll backs, and running patterns. The course follows those rules established by the National Reining Horse Association (NRHA). The training program of each student is tailored to fit both horse and rider. Prerequisite: Students must provide their own horse for this course. Instructor signature required.

EQST 1900 **4 CREDITS BASIC MANAGEMENT AND TRAINING**

Students acquire knowledge and skills in basic horsemanship, including equitation and training techniques, greenbreaking, and basic hoof care. A two-year-old colt is provided to each student to gently train, and care for according to established training objectives. Additional application and interview process is required for enrollment in this course.

EQST 1920 2 CREDITS **BASIC TRAINING TECHNIQUES**

Students are introduced to training methods used by area professional trainers. The students demonstrate proficiency in western and English pleasure, reining, trail, and halter. Other topics covered include nutrition, breeding, and health care. Prerequisite: Students must provide their own horses for this course.

EQST 2235 EQUINE EVALUATION III

2 CREDITS

A continuation of EQST 1650. Students examine breed and association standards for the judging of equine classes. Students also utilize proper terminology for the discussion of these equine classes. Equine classes examined in this course include trail, tie down calf roping, team roping-heading, team ropingheeling, working cow horse, cutting, and jumping. Prerequisites: Completion of EQST 1650 and consent of instructor.

2 CREDITS EQST 2500 **EQUINE HEALTH MANAGEMENT**

Students explore equine health management principles and practices, including a practical examination of equine nutrition, diseases, and vaccines. Students learn to identify lameness and differentiate between various types of lameness. Students also discuss general safety and first aid techniques. Prerequisite: Completion of EQST 2516.

3 CREDITS

3 CREDITS

EQST 2516 EQUINE SCIENCE II

A continuation of EQST 1515 with emphasis on the internal anatomy and physiology of the horse. Students acquire knowledge of the muscular system, nervous system, respiratory system, cardiovascular system, digestive system, urinary system, integumentary system, genetics, and parasitology. Prerequisite: Completion of EQST 1515 or permission of instructor

EQST 2520 **3 CREDITS** EQUINE REPRODUCTION

A study of the anatomy and physiology of the stallion and mare, the hormones of reproduction, basic genetics, and breeding systems and methods, including artificial insemination. The student will also be introduced to breeding-farm management Prerequisite: Completion of EQST 2500.

EQST 2525 2 CREDITS SHOW MANAGEMENT AND **EVENT PLANNING**

Students explore the elements of managing recognized horse shows from licensing through execution and evaluation. Students learn the basics of managing equine sporting events. Students examine topics that include safety and risk management, facilities management, marketing, conflict resolution, and show operations. At the culmination of this course, students participate in producing the annual Intercollegiate Horse Show Association show

EQST 2560 **4 CREDITS** ADVANCED TRAINING TECHNIQUES

A course emphasizing basic handling, correction of bad habits, and advanced training techniques leading toward an area of specialization. Prerequisites: Completion of EQST 1900 and EQST 2825.

EQST 2650 2 CREDITS PACKING AND OUTFITTING

A study of the principles of outfitting and packing the horse including hitches, knots, horse care, planning pack trips, and setting up camp. Students must provide their own horse for this course.

EQST 2660 **3 CREDITS** EQUINE SALES AND SERVICE

Students gain experience in organizing and managing an equine auction, including how to hire personnel, prepare the sales catalog, organize and set up the sales facility, prepare advertising, and manage the sales barn. At the conclusion of the spring semester, students sell horses in a sale they produce. Prerequisites: Completion of EQST 2560.

EQST 2700 1 CREDIT EQUINE SEMINAR

Students apply knowledge of contemporary topics related to the equine industry, including current market trends, controversial issues, recent research, marketing strategies, and training methods and equipment. They also gain skills in resume writing, job searching, and the application process.

EQST 2730 2 CREDITS ALTERNATIVE RODEO TIMED EVENTS III

This is the third in a series of rodeo courses designed to further increase knowledge of and skills in barrel racing and/or goat tying to enhance competition levels at NIRA-sponsored events. Students demonstrate mechanical consistency, coordinate mental and physical consistency and preparation, and practice precise event rules and improved livestock handling. A livestock fee will be charged. Prerequisite: Completion of EQST 1765 or consent of instructor.

EQST 2735 2 CREDITS ALTERNATIVE RODEO TIMED EVENTS IV

This is the fourth in a series of rodeo courses designed to demonstrate advanced knowledge and skills in barrel racing and/or goat tying to enhance competition levels at NIRA-sponsored events. Students demonstrate advanced livestock handling, refinement of rodeo event skills, advanced training techniques and application of NIRA rules. A livestock fee will be charged. Prerequisite: Completion of EQST 2730 or consent of instructor.

EQST 2740 2 CREDITS **RODEO ROUGH STOCK III**

This course is the third in the series of rodeo rough stock classes. Students further enhance skills and knowledge in the individual events so competition levels are increased at NIRA-sponsored events. They are demonstrating mechanical consistency, coordinating mental and physical preparation, demonstrating appropriate safety procedures, and administering concise event rules. A livestock fee will be charged to each student. Enrollment by consent of instructor.

EQST 2750 2 CREDITS **RODEO ROUGH STOCK IV**

This course is the fourth in the series of rodeo rough stock classes. Students further enhance skills and knowledge in the individual events so competition levels are increased at NIRA-sponsored events. They are performing mechanical consistency, executing mental and physical preparation, demonstrating appropriate safety procedures, and administering concise event rules. A livestock fee will be charged to each student. Enrollment by consent of instructor.

EQST 2760 2 CREDITS **RODEO TIMED EVENTS III**

This course is the third in the series of rodeo timed event classes. Students further enhance skills and knowledge in the individual events so competition levels are increased at NIRA-sponsored events. They are demonstrating mechanical consistency, coordinating mental and physical preparation, administering precise event rules, and improving livestock handling ability and advanced horse placement utilization. A livestock fee will be charged to each student. Enrollment by consent of instructor.

EQST 2770 2 CREDITS **RODEO TIMED EVENTS IV**

This course is the fourth in the series of rodeo timed event classes. Students are demonstrating skill and knowledge in the individual events so competition levels are increased at NIRA-sponsored events. They are performing mechanical consistency, executing mental and physical preparation, administering appropriate safety procedures, improving livestock handling ability and advanced horse placement utilization, and demonstrating precise event rule knowledge. A livestock fee will be charged to each student. Enrollment by consent of instructor.

EOST 2780 2 CREDITS **INTERMEDIATE TEAM ROPING**

Students learn the correct methods of team roping. Students demonstrate proper horse handling techniques in the box, approach to cattle, and setting cattle for the heeler. Handling livestock, use of equipment for team roping, and physical and mental preparation will be stressed. Students become familiar with the Professional Rodeo Cowboys Association (PRCA) rule book, and safety will be practiced at all times. A livestock fee will be charged to each student. Enrollment by consent of instructor. Prerequisite: Students must have the basic horsemanship skills required to rope and ride at the same time.

EQST 2800 **FUNDAMENTALS OF TEACHING RIDING**

Students develop the necessary skills to become an effective instructor of riding. Through classroom and arena assignments the student has the opportunity to gain confidence, learn methods of organization, and practice teaching techniques. Students have the opportunity to become certified riding instructors by the Certified Horsemanship Association. Prerequisite: Instructor approval required.

EQST 2805 2 CREDITS WESTERN EQUITATION

A course in the basic exercises needed to improve balance, the proper use of aids such as hands, weight, legs and voice, and appropriate use of cues at all three gaits. Students must provide their own horses for this course.

4 CREDITS EQST 2825 ADVANCED HORSE MANAGEMENT AND TRAINING

A continuation of EQST 1900, emphasizing advanced greenbreaking. Prerequisite: Completion of EQST 1900.

EOST 2970 **INTERNSHIP**

4 CREDITS

Students apply theoretical and practical knowledge gained in the equine studies classroom and labs through work experience in an equine-related industry in a supervised environment. Students complete the necessary agreements and assignments during their internship which will aide in evaluating and describing the internship experience. Prerequisite: Completion of EQST 1900, EQST 2825 and EQST 2560, and instructor approval required.

EQST 2975 **4 CREDITS** INDIVIDUALIZED TRAINING

A continuation of equine training courses in a minimally guided yet, fully observed atmosphere. Students work with the instructor to determine their career goals and discipline in the horse training industry and through self-guided learning, explore their chosen discipline. Students train colts from green broke to specialization in a discipline. This course is an alternative to participation in the internship course for satisfaction of the degree requirements for the Equine Science - Training Management program. Prerequisite: Completion of EQST 1900, EQST 2560 and EQST 2825.

EQST 2985 **3 CREDITS** EQUINE BUSINESS LAW

Students apply knowledge and build skill in topics related to equine business law including taxes, liability, legal issues, current legislation and politics, breeding contracts, syndications, recordkeeping, depreciating facility costs, scheduling, developing employee benefit packages, employee relations, scheduling, and payroll records.

2 CREDITS Family and **Consumer Sciences**

FCSC 2122 CHILD GROWTH AND DEVELOPMENT/LAB

This course serves as a bridge between theory and application through observation of child growth and development from birth to 12 years of age. Students gain practical knowledge in the development and behavior of children. Prerequisites: Completion of PSYC 1000 and completion of or concurrent enrollment in PSYC 2300.

Finance

FIN 1001 1 CREDIT PERSONAL FINANCIAL PLANNING

In this course, students examine the foundations of personal financial planning. Topics include the financial planning process, financial statements. taxes, and the management of basic assets such as cash and savings instruments, housing, and automobiles. Students also become knowledgeable about the key concepts and procedures used in sound personal financial planning and effective money management. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

FIN 1002 1 CREDIT RISK AND CREDIT MANAGEMENT

In this course, students examine credit management including the various types of open account borrowing and consumer loans. Topics include the managing and wise use of credit; ways to avoid credit problems; risk management as it deals with managing insurance needs; life, health care, and property insurance; and life cycle issues and their effect on insurance needs. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

FIN 1003 1 CREDIT INVESTMENT/RETIREMENT PLANNING

In this course, students explore investments, including stocks, bonds, and mutual funds. Students become knowledgeable about making transactions in the securities market and the role personal computers play in the world of investing. Students also gain an understanding of the relationship between changing life cycles and investment portfolio, retirement plans and goals, retirement program regulations, and estate preservation through proper planning. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

1 CREDIT

FIN 2100 CORPORATE FINANCE

3 CREDITS

Students explore the theoretical and practical framework for corporate financial management. Topics to be included are financial analysis, time value of money, risk and return, portfolio analysis, capital budgeting, financial assets, and cost of capital. Prerequisite: Completion of ACCT 2020, MATH 2200 or MATH 2355 and completion of or concurrent enrollment in STAT 2010, STAT 2050 or STAT 2070.

Fire Science

FIRE 1501 3 CREDITS PRINCIPLES OF EMERGENCY SERVICES

Students explore principles of emergency services, including fire protection, career opportunities in fire protection, and related fields. Students examine the philosophy and history of the fire service, fire loss analysis, and the organization and function of public and private fire protection services. Students analyze fire departments as part of the local government, laws and regulations affecting the fire department, and many other topics specific to the foundation of firefighting and emergency services. Prerequisite: Completion of AHA Health Care Provider CPR and/or program manager approval.

3 CREDITS FIRE 1510 FIREFIGHTING STRATEGY AND TACTICS I

Students examine indepth the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the scene of a fire. Prerequisite: Completion of FIRE 1501 and/or program manager approval.

FIRE 1625 3 CREDITS FIRE PROTECTION HYDRAULICS AND WATER SUPPLY

Students explore the use of water in fire protection, apply hydraulic principles, analyze flow demand criteria, and solve water supply problems. Prerequisite: Completion of MATH 0970 or equivalent placement test score, or program manager approval.

3 CREDITS

FIRE 1700 INTRODUCTION TO FIRE PREVENTION

Students acquire fundamental information regarding the history and philosophy of fire prevention, organization, and operation of a fire prevention bureau; use of fire codes; identification and correction of fire hazards; and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.

FIRE 1725 3 CREDITS FIRE PROTECTION SYSTEMS

Students acquire information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection, and portable fire extinguishers.

FIRE 1760 3 CREDITS BUILDING CONSTRUCTION

Students examine the components of building construction that relate to fire and life safety. Focusing on firefighter safety, students analyze and apply elements of construction and design that have been shown to be key factors when inspecting buildings, preplanning fire operations, and operating at an emergency. Prerequisite: Completion of FIRE 1501 or instructor approval.

4 CREDITS FIRE 1810 INTRODUCTION TO WILDLAND FIREFIGHTING

In this course, students prepare for firefighting operations in the wildland sector. Students learn proper tool handling, water use, hose operations, and meteorology. This course is a combination of National Wildland Coordinating Group courses S-190, S-130, and L-180 Human Factors on a Fireline.

FIRE 1825 3 CREDITS FIRE BEHAVIOR AND COMBUSTION

Students explore the theories and fundamentals of how and why fires start, spread, and how they are controlled.

3 CREDITS

3 CREDITS

FIRE 2500 FIRE INVESTIGATOR I

Students develop the fundamental skills and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire setter, and types of fire causes. Instructor

permission required. **FIRE 2550** FIRE INVESTIGATOR II

Students develop advanced skills and technical knowledge on the rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation, and courtroom testimony. Prerequisite: Completion of FIRE 2500.

FIRE 2610 3 CREDITS CHEMISTRY OF HAZARDOUS MATERIALS

Students examine basic fire chemistry relating to the categories of hazardous materials including recognition, reactivity, and health problems that may be encountered by firefighters.

FIRE 2800 FIRE ACADEMY

In this course, students develop and apply the skills listed in the State of Wyoming Firefighter I and II manipulative skills objectives catalog. Students participate in lecture and drill ground activities. Upon successful completion of the course, students are eligible to take state testing for Firefighter Level I and II certification. Prerequisite: Completion of FIRE 1501 or program manager approval.

FIRE 2970 4-12 CREDITS FIREFIGHTER FIELD EXPERIENCE

In this course students prepare for life in the fire service. Students participate in the daily duties of an actual fire department. Students act as members of the designated department and perform duties as probationary firefighters. Students observe and participate in actual emergent and non-emergent situations. Credits awarded are based on job experience and/or documented professional certifications. Prerequisite: Completion of FIRE 1760, FIRE 1825, FIRE 2800 (or current FF Level I or II certification), and/or program director approval.

French

FREN 1010 FIRST YEAR FRENCH I

4 CREDITS

Students develop the fundamentals of grammar, composition, conversation and reading in the French language and explore cultural aspects of the Frenchspeaking world.

FREN 1020 4 CREDITS FIRST YEAR FRENCH II

A continuation of FREN 1010. Prerequisite: Completion of FREN 1010.

FREN 2030 4 CREDITS SECOND YEAR FRENCH I

In this intermediate-level French course students refine their conversation skills and integrate level grammatical structures into conversations and compositions. Students are exposed to basic French literature and develop more advanced writing skills in French. Prerequisite: Completion of FREN 1020 or equivalent.

FREN 2040 4 CREDITS SECOND YEAR FRENCH II

Students continue development of intermediate speaking, listening, reading and writing skills in the French language. Students integrate intermediate level grammatical structures into conversations and compositions, and explore cultural aspects of the French-speaking world, focusing on interpretation of French literature and film. Prerequisite: Completion of FREN 2030 or equivalent 3rd semester course.

8 CREDITS

Geography

GEOG 1000 3 CREDITS WORLD REGIONAL GEOGRAPHY

Students explore the topics of globalization and localization and how they affect world geography. Students apply knowledge on distributions, traits and processes of people and landscapes within specific geographic regions as well as within interconnected global community. Prerequisite: Completion of ENGL 0810.

4 CREDITS

GEOG 1010 INTRODUCTION TO PHYSICAL GEOGRAPHY

A systematic study of the natural aspects of the geographic environment, including weather and climate, the hydrologic cycle, landforms, soils, flora and fauna. Students learn the principles, concepts and tools within the geography discipline while engaging in the atmospheric processes, exploring the interactions between the biosphere, lithosphere and hydrosphere and investigating the physical forces shaping Earth's crust. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

GEOG 1016 1 CREDIT INTRODUCTION TO ARCGIS I

This is an ESRI-authorized course in Geographic Information Systems (GIS). Students develop the foundation for becoming successful GIS users. Students acquire fundamental GIS concepts and become familiar with the range of functionality available with the software through course exercises. Problemsolving skills are applied using spatial information. Students earn an ESRI (Environmental Systems Research Institute) certificate upon completion. Prerequisite: Students should be familiar with Windows-based software.

GEOG 1020 3 CREDITS HUMAN GEOGRAPHY

Students examine the field of human geography and the tools and techniques which are used to evaluate and describe topics in global resource utilization, population, language, religion, settlement, industry, and agricultural land use. Prerequisite: Completion of ENGL 0810.

GEOG 1040 3 CREDITS MOBILE MAPPING WITH GPS

Students learn the fundamentals of Global Positioning System (GPS)/Global Navigation Satellite Systems (GNSS) operation, basic geodesy and coordinate system, basic project planning, apply basic mapping skills, create and use data dictionaries, set up and operate GPS receivers, college field data, and import data into a GIS. Students operate a professional level GPS receiver and software package for the class work. This class is applicable for all majors who need to collect data for input into a CAD or GIS mapping system; i.e. agriculture, engineering, engineering/surveying technology, anthropology, construction trades, and law enforcement.

GEOG 1050 3 CREDITS INTRODUCTION TO NATURAL RESOURCES

A course where students examine human interaction with the environment, ranging from regional to global scales. Students become knowledgeable about and gain an understanding of approaches to environmental management. The course emphasizes the scientific aspects of environmental concerns. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

GEOG 1100 4 CREDITS INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

An introductory Geographic Information Systems (GIS) course. Students explore the use of computers in displaying and analyzing spatial information. Students acquire skills in manipulating geographic data for a variety of uses including: natural resource management, planning, health care, Homeland Security, agriculture, and others. Students should be familiar with Windowsbased computer operating systems as well as file management procedures. Prerequisite: Completion of ENGL 0810.

GEOG 1220 3 CREDITS INTRODUCTION TO GEOSPATIAL TECHNOLOGY

This course provides an introduction to Geospatial Technology with a primary focus on geographic information systems (GIS) and an overview of related technologies such as remote sensing (RS), global positioning systems (GPS), and other emerging technologies Students learn concepts and employ the hands-on use of technologies to create, manage, analyze, and map geospatial data in the context of various application areas such as business, public safety, health, environment, engineering, agriculture, natural resources, and natural and social sciences. Prerequisite: Completion of ENGL 0810 or equivalent placement test score, and familiarity with a Windows-based computer operating system.

GEOG 2200 3 CREDITS WYOMING GEOGRAPHY

A study of Wyoming's geographic features. Students examine and acquire knowledge about the climate and landscape features, ecology, material resources, economic patterns, areal organization, and population configurations of Wyoming. Because geography instructors typically require written assignments, ENGL 1010 or its equivalent is recommended. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

Geology

GEOL 1035 3 CREDITS GEOLOGY OF YELLOWSTONE NATIONAL PARK

Students explore the geologic processes and features of the greater Yellowstone and Grand Teton geoecosystem including: earthquakes, landslides, glacial and stream processes, geothermal features and other geological structures, processes and hazards. This course involves daily hikes of at least 4-5 miles on uneven terrain. All activities will be conducted outdoors where temperatures may be cold and precipitation likely. A course fee will be assessed for reservation of lodging, food, transportation, and entrance fee into parks. This course is only available to registered students who are at least 18 years of age; limit to 13 students. Prerequisite: Completion of GEOL 1100, GEOL 1200 or GEOG 1010.

GEOL 1100 PHYSICAL GEOLOGY

Students identify common minerals and rocks and explain how igneous, sedimentary, and metamorphic rocks form. Students acquire scientific knowledge about the movement of crustal plates, interior Earth processes, and external Earth processes including water cycles and resources. Students use geologists' techniques and methods in the pursuit of scientific inquiry. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

4 CREDITS

GEOL 1200 4 CREDITS HISTORICAL GEOLOGY

Students learn to infer geologic history through careful study of fossils, rocks, and geologic structures. Students examine the theory of the origin of life, organic evolution, plate tectonics, and the evolution of Earth's continents, oceans, and climate. Students use geologists' techniques and methods in the pursuit of scientific inquiry. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

Greek

GRK 1010 FIRST YEAR GREEK I

An introduction to the elementary principles of the ancient Greek language, starting from the very beginning. No prior knowledge on the part of the student is assumed. The students systematically acquire knowledge about the fundamentals of grammar and composition while reading classical Greek. Students develop skills in Classical (Attic) Greek, not Modern Greek. However, students successfully completing first year Greek should find the Greek of the New Testament and simple texts like Herodotus and Thucydides quite accessible.

GRK 1020 FIRST YEAR GREEK II

An intermediate, college-level course focusing on the review and mastery of major grammatical structures of the language, as well as the refinement of basic skills through reading based on works by Greek writers. Students demonstrate a command of complex grammar structures and idiomatic expressions, translate passages of increasing difficulty, and interpret Greek poetry and prose in cultural context. In addition, students develop recognition of the contributions of Greek to the English language while expanding their appreciation of Greek literature, thought, and expression. By the end of the semester, students move into Koine and read some Greek of the New Testament. Prerequisite: Completion of GRK 1010.

GRK 2030 SECOND YEAR GREEK

4 CREDITS

4 CREDITS

4 CREDITS

An intermediate, college-level course focusing on the review and mastery of major grammatical structures of the language, as well as the refinement of basic skills through reading selections of Attic Greek prose and poetry. Students demonstrate a command of complex grammar structures and idiomatic expressions, translate passages of increasing difficulty, and interpret Greek poetry and prose in cultural context. In addition, students develop recognition of the contributions of Greek to the English language while expanding their appreciation of Greek literature. thought, and expression. Prerequisites: Completion of GRK 1020.

GRK 2150 4 CREDITS SELECTED READINGS IN BIBLICAL GREEK

An intermediate, college-level course focusing on the essentials of Greek grammatical forms, syntax, and vocabularies for preparing students to read the New Testament in the original language. Students extend their grammatical education while engaging with original New Testament texts. In addition, students explore the use of grammars, dictionaries, synopses, concordances, and exegetical uses of biblical Greek. By the end of the semester, students have a degree of fluency in translation of the Gospels and can understand the text at a level unattainable through mere reading of English versions. Prerequisite: Completion of GRK 1020.

Health Information Technology and Management

HIT 1500 4 CREDITS INTRODUCTION TO HEALTH CARE CAREERS AND WORKPLACE PREPAREDNESS

Students explore the health care system and examine different types of careers available to them in the administrative realm of health care. Students focus on introductory positions such as a medical secretary, coding career clusters, and health information technology career clusters as well as a brief overview of how success in those clusters can lead to management positions. Students are introduced to basic skills needed to succeed in a medical office environment including: basic business writing, verbal and nonverbal communication, professional dress and behaviors. Prerequisite: Acceptance into HITM program or instructor approval.

HIT 1510 4 CREDITS COMPUTER SOFTWARE FOR MEDICAL OFFICE PROFESSIONALS

Students explore and apply computer software used in many medical offices. Through hands-on exercises, students explore a Windows environment; create medical documents in MS Word; work with formulas, functions, and charts in MS Excel; use basic features in MS Access; and utilize common features of MS Outlook. Prerequisite: Acceptance into the HITM program or instructor approval.

HIT 1550 MEDICAL OFFICE PROCEDURAL SKILLS

Students are introduced to the basic skills needed to succeed in a medical office environment. Students examine the importance of effective and timely scheduling and the effects on customer service, discuss the necessity of complying with medical ethics, create and work with basic medical records, and review basic insurance used in a medical office. Prerequisite: Acceptance into the HITM program or instructor approval.

HIT 1600 2 CREDITS INTRODUCTION TO HEALTH INFORMATION

Students build knowledge of the health care delivery system with emphasis on health information management (HIM), organizational structures, regulatory and accreditation standards, and health care reform. Students explore the content of health records and documentation requirements, use and structure of health data and data sets, primary and secondary records, and discuss the data sets and what they mean to the organization. Students are introduced to the various tasks and skills performed in a health record department. Prerequisite: Completion of HIT 1550 or instructor approval.

HIT 2500 2 CREDITS HEALTH DATA MANAGEMENT

Students study the compilation and interpretation of health care statistics for clinical indices and databases/registries. Students collect, organize, and present data using common data software applications to design and generate reports for patient care and related studies. Clinical data will be analyzed to identify trends that demonstrate quality, safety, and effectiveness in health care. Prerequisite: Completion of HIT 1510.

HIT 2550 2 CREDITS HEALTH CARE QUALITY AND PERFORMANCE IMPROVEMENT

Students develop a working knowledge of the health care data and statistics necessary to address quality of care and performance improvement. Students analyze data to identify trends in the facilities that represent quality, safe, and effective patient care. Students use the analyzed data to report quality measures and initiatives that apply to the federal, state, and local regulations in the health care industry. Prerequisite: Completion of MEDC 1700.

3 CREDITS

HIT 2600 HEALTH INFORMATION APPLICATION SKILLS

Students build on the foundations of health data management and the uses for the data collection and management within the health care industry. Students apply the principles of health information management to the practical situations and case studies in class. Students use and evaluate the various software applications found within the industry. Using the technology and the primary knowledge of health information management, the students analyze patient records and perform audits of patient charts and correlate the information found in the audits to quality measurements. Prerequisite: Completion of HIT 1600.

HIT 2970 2 CREDITS **PROFESSIONAL PRACTICE EXPERIENCE (HIM)**

Students gain real-world experience in health care settings. The guidelines of this course are set in the Professional Practice Experience (PPE) handbook published by the American Health Information Management Association. Students are placed in different health care settings to help them achieve the experience and competencies set forth in the handbook while utilizing management and leadership skills. Placements vary and could include a hybrid PPE, meaning a real-world placement with an online experience with a virtual lab. Students complete the PPE in a health information management setting. Prerequisite: Completion of or concurrent enrollment in HIT 2600.

Health Technology

HLTK 1200 MEDICAL TERMINOLOGY

Students study the vocabulary associated with health care professions. Students demonstrate knowledge of suffixes, prefixes, root words and their combining forms, and abbreviating through testing, pronunciation, and writing. Students use and incorporate technology in their development of medical based vocabulary.

HLTK 1210 HUMAN BODY SYSTEMS

3 CREDITS Students identify the structure and

2 CREDITS

function of the systems that make up the human body--integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive. In this non-lab class, students examine body defenses, common diagnostic values, specific abnormalities in function, and how the body works to maintain homeostasis.

3 CREDITS HLTK 1510 NURSE ASSISTANT

3 CREDITS

Students gain proficiency in basic resident care skills, beginning infection control, communication and interpersonal skills through theory, practice and supervised clinical experience. Students prepare to take the qualifying exam for Certified Nurse Aide (CNA) as an integral part of this course. Nurse aides must be certified to work in health care facilities in Wyoming, and this course is designed to meet OBRA guidelines and follows state-approved curriculum.

HLTK 1540 3 CREDITS RADIATION PHYSICS

This algebra-based course is designed to provide students with the basic physical principles needed to successfully function in the radiologic and imaging sciences. Students apply principles and laws that govern the SI system of measurement, matter, energy, basic mechanics, wave properties, electricity, magnetism, the electromagnetic spectrum, radiation, and atomic interactions. Three hours of lecture per week. Cross-listed as RDTK 1540. Prerequisite: Completion of ENGL 0810 and MATH 0980, or equivalent placement test score.

HLTK 2300 HEALTH CARE ETHICS

Students explore the basic principles of health care ethics. By engaging in theoretical health care practice situations the students apply practical application of course material to contemporary ethical issues. Students responsibly develop awareness of issues emphasizing diversity of ethical analysis with stress placed on non-judgmental collaboration and philosophical reflection. Completion of or concurrent enrollment in ENGL 1010 strongly recommended.

3 CREDITS

HLTK 2510 2 CREDITS PATHOPHYSIOLOGY

An introduction to the physiology of human disease processes, intended for health professions students. Students explore the nature of various diseases and conditions, methods of diagnosis, medical and surgical treatment options, and disease risk factors, classified by affected body systems. Prerequisite: Completion of HLTK 1210 or ZOO 2010 or ZOO 2015, and recommended completion of or concurrent enrollment in ZOO 2020 or ZOO 2025.

Heating, Ventilation, and Air Conditioning

HVAC 1600 **3 CREDITS** MECHANICAL PIPING SYSTEMS Students explore the different piping materials used for heating, ventilation, air conditioning, and refrigeration, including polyvinyl chloride (PVC), hard and soft copper, and galvanized and back iron piping. They develop skills to measure, cut, prepare, and connect piping and tubing. In addition, students use a piping schematic to layout a piping system. Finally, students identify and explain the use of common fittings and valves for different styles of piping and tubing.

HVAC 1610 **3 CREDITS HEATING AND AIR CONDITIONING PRINCIPLES**

Students examine the primary concepts of thermal dynamics and fluid dynamics, including attributes of heat and pressure, states of matter, heat transfer methods, energy conversion, and expressions of power. They gain a fundamental understanding of the refrigeration cycle, system components, and refrigerant properties. Students also explore how the properties of air---to include humidity and temperature---affect human comfort.

HVAC 1620 **3 CREDITS REFRIGERATION CIRCUIT COMPONENTS**

Students examine the major refrigeration system components, including evaporators, condensers, compressors, metering devices, and accessories. Students apply the internal workings of each different type of component to an operational refrigeration circuit. Prerequisite: Completion of or concurrent enrollment in HVAC 1610, or instructor approval.

HVAC 1630 **4 CREDITS ENERGY EFFICIENT RESIDENTIAL** HEATING SYSTEMS

Students explore energy efficient residential gas-fired heating systems. Students install, commission, troubleshoot, and repair residential gas-fired systems of varying efficiencies using electronic test equipment, parts, and tools. Prerequisite: Completion of or concurrent enrollment in IST 1710, IST 1711, IST 1712, IST 1713, HVAC1600, and HVAC 1610, or instructor approval.

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HVAC 1640 3 CREDITS AUTOMATIC BUILDING CONTROLS

Students discover how various types of controls work and how they are applied in heating, ventilation, air conditioning, and refrigeration systems. In particular, they examine bimetallic, liquid-filled, vapor-filled, thermocouple, and thermister controls. In addition, students experiment with the operation of temperature controls, pressure controls, hydronic relief valves, and transducers to include accurate adjustments. Finally, students troubleshoot and repair control systems using electrical test equipment such as voltmeters, ammeters, and ohmmeters. Prerequisite: Completion of or concurrent enrollment in HVAC 1630 and HVAC 1650, or instructor approval.

HVAC 1650 3 CREDITS RESIDENTIAL AIR CONDITIONING SYSTEMS

Students leak check, evacuate, recover refrigerant from, and charge residential and light commercial air conditioning systems. Students open and seal refrigeration systems using brazing and soldering techniques and also examine Core, Type I, Type II, and Type III system characteristics as they prepare to take the Environmental Protection Agency (EPA) Refrigerant Handling Certification exams. Prerequisite: Completion of IST 1710, IST 1711, IST 1712, IST 1713, HVAC 1600, and HVAC 1610, or instructor approval.

HVAC 1660 3 CREDITS HVAC DISTRIBUTION SYSTEMS

Students examine the primary concepts of Indoor Air Quality (IAQ). They also investigate the hazards of improper IAQ and methods to mitigate those hazards to include ventilation, humidification, and dehumidification of living spaces. Students examine air distribution systems and use test equipment to measure pressure and flow as part of system balancing. Prerequisite: Completion of or concurrent enrollment in HVAC 1610 and HVAC 1650, or instructor approval.

HVAC 1670 3 CREDITS LIGHT COMMERCIAL REFRIGERATION SYSTEMS

Students identify various supermarket refrigeration units for analyzing the selection and installation placement procedures for the equipment. They predict how different refrigerant system installation methods could affect a building's heating, ventilation, and air conditioning systems. In addition, students examine the unique operation quality control aspects of commercial ice production before operating, maintaining, and repairing commercial ice machines. They evaluate and troubleshoot the operation of several styles of commercial refrigeration systems. Prerequisite: Completion of or concurrent enrollment in HVAC 1620, HVAC 1630, HVAC 1640, and HVAC 1660, or instructor approval.

HVAC 1680 3 CREDITS ENERGY EFFICIENT AIR CONDITIONING UNITS

Students examine the operation, maintenance, and repair of commercial heating, ventilation, and air conditioning systems. They discover how the components of a heat pump work to provide heating or cooling. Finally, students identify the different types of geothermal loops that are used in regions of the country as well as the unique maintenance and repair requirements for each type of loop. Prerequisites: Completion of HVAC 1620, HVAC 1640, and HVAC 1650 or instructor approval.

HVAC 1690 3 CREDITS ADVANCED AIR CONDITIONING SKILLS

Students analyze operating conditions, compare results to the manufacturer's data, and predict potential effects to heating, ventilation, and air conditioning equipment. They interpret a system's sequence of operation, gather customer information, and use test equipment to troubleshoot mechanical and electrical faults. Students perform residential load and duct-sizing calculations. They also practice customer service techniques. Prerequisites: Completion of HVAC 1620, HVAC 1640, and HVAC 1650 or instructor approval.

HVAC 1970 4 CREDITS ENERGY AUDIT SKILLS

Students develop skills needed to inspect, measure, and test the energy efficiency of residential buildings for various factors, including the tightness of the structure, the insulation levels, and the energy consumption of the appliances. They also inspect and test for safety concerns such as carbon monoxide, asbestos, mold, and lead base paint, along with general hazards, including electrical, plumbing, and structural concerns. Students also develop skills to effectively communicate with owners to find critical information about a facility's history. They analyze the information for the most cost effective solutions and provide a report to the customer. Prerequisites: Completion of HVAC 1630 and HVAC 1650 or instructor approval.

History

HIST 1110 WESTERN CIVILIZATION I

Students study and evaluate western civilization from ancient times to the Renaissance. Students study several aspects of this long and complex story, including political, social, military, religious and cultural traditions and their contributions to the modern world. Prerequisite: Completion of ENGL 0810.

3 CREDITS

HIST 1120 3 CREDITS WESTERN CIVILIZATION II

Students study and evaluate western civilization from the Renaissance to modern times. Students study several aspects of this long and complex story, including political, social, military, religious and cultural traditions and their contributions to the modern world. Prerequisite: Completion of ENGL 0810 or placement into ENGL 1010.

HIST 1130 3 CREDITS INTRODUCTION TO THE OLD TESTAMENT

A historical, archaeological, and literary survey of the Old Testament and its surrounding environment. During the course, students acquire knowledge of the process and development of the Old Testament with its history, cultural environment, and literary development. Cross-listed as RELI 2110. Prerequisite: Completion of ENGL 0810, or completion of or concurrent enrollment in ENGL 1010.

HIST 1135 3 CREDITS NEW TESTAMENT SURVEY

An introduction to the historical, religious, and political setting of the Near East from Alexander the Great to the end of second century C.E. The class investigates Judaism and Christianity in the Roman World. The New Testament will be viewed from within the context of the Greco-Roman civilization in which the early Christians lived. Cross-listed as RELI 2150. Prerequisite: Completion of ENGL 0810, or completion of or concurrent enrollment in ENGL 1010.

HIST 1211 U.S. TO 1865

Students study and analyze a survey of United States history commencing with the European background and first discoveries. Students follow the pattern of colonization and the development of American institutions throughout the colonial period and the early national experience to 1865. Students study the essentials of the United States Constitution in context to the first half of American history. Students also evaluate the Wyoming Constitution. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

HIST 1221 U.S. FROM 1865

3 CREDITS

3 CREDITS

Students study and evaluate events from the Reconstruction era to the present day including political, economic, and social aspects of American life and the development of the United States as a world power. Students study the essentials of the United States Constitution in context to the second half of American history. Students also evaluate the Wyoming Constitution. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

HIST 1251 WYOMING HISTORY

1010.

WYOMING HISTORY Students study Wyoming's economic, political, constitutional, and social history from preterritorial days to the present. Students analyze the constitutions of the United States and

HIST 1290 3 CREDITS HISTORY OF THE U.S. WEST

Wyoming. Prerequisite: Completion of

ENGL 0810 or placement into ENGL

In this survey history course, students examine frontier life in the Far West focusing on the nineteenth century from the early explorations through the fur trade and including territorial expansion to the Pacific, the mining frontiers, the cattle trail and farming frontiers, and the Plains Indians. Students also explore current issues related to development of the West during the twentieth century. Prerequisite: Completion of ENGL 0810, or placement into or concurrent enrollment in ENGL 1010.

HIST 2000 AMERICAN REVOLUTION

3 CREDITS

This survey course covers the period from 1763 to 1789. Students evaluate the reasons the American Revolution occurred; the political, social, ethnic and military aspects of the American Revolution; the failure of the Articles of Confederation; and the adoption of the U.S. Constitution. Prerequisite: ENGL 0910 or equivalent placement test scores.

HIST 2020 3 CREDITS U.S. MILITARY HISTORY

Students examine every major American military campaign. Students analyze the causes of the American military involvement, decisions, and actions of the United States' Armed Forces from the colonial period through the Persian Gulf conflict. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

HIST 2050 3 CREDITS INTRODUCTION TO PUBLIC HISTORY

Students examine the nonteaching, professional uses of history. They consider topics such as archival work, museum management, public information and publications, historic site development, oral history interviewing, preparation of government reports, historic preservation general concepts, and historical programming. Prerequisite: Six hours of history or consent of instructor. Students learn the background of European anti-Semitism, the rise of the Nazi Party, the origins of the Second World War, and the events that led to the destruction of European Jewry. Students trace those events and perceptions that allowed the Holocaust to emerge, particularly the development of racial anti-Semitism and religious anti-Judaism. Students explore Christian perspectives and actions, including the behavior and teachings of the church, its leaders and lay members during the Holocaust. Students explore the religious motivations for the extraordinary courage displayed by Christians who risked their lives to save Jews. Students assess the politics behind the Holocaust and how World War II affected Jews throughout Europe. Cross-listed as RELI 2080 Holocaust. Prerequisite: Completion of ENGL 0810 or placement into ENGL 1010 and completion of HIST 1120, or consent of instructor.

HIST 2120 3 CREDITS ANCIENT GREECE AND THE NEAR EAST 3

A survey of ancient western history from its beginnings in Mesopotamia to the coming of Rome. Students examine several aspects of this long and complex story: political, social, military, religious, and cultural traditions and their contributions to the modern world. The Trojan War, Sparta, the Persian Wars, Alexander the Great, and Greek mythology will be given special attention. Prerequisite: Completion of ENGL 1010.

HIST 2130 ANCIENT ROME

3 CREDITS

3 CREDITS

Students survey ancient Rome from its legendary origins to the fall of the Roman Empire. Students examine several aspects of this long and complex story, including political, social, military, religious and cultural traditions and their contributions to the modern world. Students complete an in depth analysis of Julius Caesar, early Christianity and Roman military conquests. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

HIST 2225 3 CREDITS HISTORY OF CHRISTIANITY

Students study the history of Christianity from its origins through the early modern era. Students analyze church history in the context of general western history. Students evaluate the development of Christian belief and practice. Cross-listed as RELI 2225. Prerequisite: Completion of ENGL 0810 or equivalent placement test scores.

HIST 2290 HISTORY OF NORTH AMERICAN INDIANS

Students survey North American Indian history from the time of Columbus through present time. Students analyze and evaluate how political, social and economic change impacted the Indian people. Prerequisite: Completion of ENGL 0810 or placement into ENGL 1010.

HIST 2320 3 CREDITS HISTORY OF ISLAM

Students survey the history and philosophy of the Islamic religion. Students acquire knowledge about and gain an understanding of Islamic history, Islamic principles and practices, Islamic law, Islamic relationships to other religions, and Islam in the context of the modern world. Cross-listed as RELI 2320.

HIST 2389 3 CREDITS HISTORY OF WOMEN AND THE AMERICAN WEST

Students survey the roots of society's marginal historical depiction of women in the American West from the colonial period through the twentieth century. Students develop a multi-dimensional understanding of women's roles using an interdisciplinary approach from the perspectives of race, class, ethnicity, and gender. Cross-listed as WMST 2389. Prerequisite: Completion of ENGL 0810 or placement into ENGL 1010.

HIST 2390 3 CREDITS MEXICAN CIVILIZATION

A historical and cultural survey of Mexico to include the study of pre-Hispanic civilizations, the Spanish Conquest, the independence movement, the Mexican Revolution, and the modern era. Students gain an appreciation of the development of Mexican culture through its history and artistic thought and the influence that Mexico has had upon the United States. Cross-listed as HUMN 2395. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

Human Development

HMDV 1510 3 CREDITS SUCCESS IN THE WORKPLACE

Students receive training to prepare them for entry and success in today's work environment. Students emphasize those concepts, skills, and attitudes needed by an individual to have a successful workrelated experience.

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3 CREDITS

Home Economics

HOEC 1140 NUTRITION

2 CREDITS

A study of basic principles of normal nutrition, their application in food selection, and current issues in nutrition and weight maintenance. Students analyze diets and eating patterns to improve nutritional status and evaluate nutritional claims of products. Students apply nutrition principles to individuals throughout the lifespan and on selected special diets.

Homeland Security

HSEC 1000 3 CREDITS HOMELAND SECURITY: A GLOBAL IMPACT

Students review the history of homeland security and discuss its current state and impact on social, political, economic and cultural elements. Students examine threats to homeland security including natural, man-made, and technological disasters, terrorism and Chemical, Biological, Radiological, Nuclear, and Explosive (CBRNE) threats. Students identify the roles and responsibilities of government agencies, non-government organizations and individual citizens as they relate to homeland security.

HSEC 1001 SCHOOL SAFETY

3 CREDITS

Students examine security protocol, preparedness, and threat response at educational facilities, including natural, man-made, and technological disasters. Students analyze the relationship between schools and first responders. Students review risk and threat assessments, school safety planning, strategies for safer schools, training, education, exercises, and develop the tools necessary to coordinate and facilitate a school safety program. Prerequisite: Completion of or concurrent enrollment in HSEC 1000.

HSEC 1003 3 CREDITS HOMELAND SECURITY AND FIRST RESPONDERS

Students examine the unique role of local first responders during natural, man-made, and technological disasters. Students evaluate first responders' actions at responses and recoveries in which the Incident Command System was employed. Prerequisite: Completion of or concurrent enrollment in HSEC 1000.

HSEC 1025 3 CREDITS EMERGENCY MANAGEMENT

Students examine emergency management strategies for all types of disasters covered under the homeland security's "all-hazard" approach. Students assess, plan, and prepare effective emergency response plans that include environmental and social considerations, as well as disaster recovery and hazard mitigation. Prerequisite: Completion of or concurrent enrollment in HSEC 1000.

HSEC 1500 3 CREDITS NETWORK SECURITY FUNDAMENTALS

Students gain a fundamental understanding of computer and network security and explore a wide variety of concepts related to computer security. This course prepares the student for the CompTIA Security+ Certification. Crosslisted with CSEC 1500. Prerequisite: Completion of or concurrent enrollment in CSCO 2000.

HSEC 1510 3 CREDITS NETWORK DEFENSE PRINCIPLES

Students employ knowledge and gain experience installing firewalls and intrusion detection systems. Students develop a solid foundation in advanced network security fundamentals, incorporating examination of intrusion detection, network address translation, packet filtering, proxy servers, firewalls, and virtual private networks. Course content includes network defense fundamentals, risk analysis, security policy implementation, network traffic signatures, virtual private network concepts, VPN implementation, intrusion detection system concepts, incident response, choosing and designing firewalls, firewall topology, strengthening and managing firewalls, and strengthening defense through ongoing management. Cross-listed with CSEC 1510. Prerequisite: Completion of or concurrent enrollment in CSCO 2000.

HSEC 1520 3 CREDITS NETWORK ATTACK PRINCIPLES

Students scan, test, hack, and secure systems in an interactive lab environment. Students analyze perimeter defenses and attacker tactics, as well as intrusion detection, policy creation, social engineering, DDoS Attacks, buffer overflows, and virus creation. This course will help prepare the student for the EC-Council Certified Ethical Hacker (CEH) Certification. Cross-listed with CSEC 1520. Prerequisite: Completion of or concurrent enrollment in CSCO 2000.

HSEC 1530 3 CREDITS COMPUTER FORENSICS

Students employ a detailed methodological approach to computer forensics and evidence analysis. Students demonstrate the skills necessary to acquire and handle digital evidence, identify and track cybercriminals and complete computer investigations. This course will help prepare the student for the EC-Council Certified Hacking Forensic Investigator (CHFI) Certification. Cross-listed with CSEC 1530. Prerequisite: Completion of or concurrent enrollment in CSCO 2000.

HSEC 2001 3 CREDITS LEGAL, POLICY, AND PRIVACY ISSUES

Students analyze major federal laws and their impact on policies, strategies, and plans for dealing with various threats to homeland security. Students review the legal roles and responsibilities of government agencies, non-government organizations, and individual citizens for U.S. national security. Students discuss various policy and strategy issues, including balancing security, civil liberties, and privacy. Students examine the legal rights and restrictions granted to the private and public sectors as it applies to homeland security. Prerequisite: Completion of or concurrent enrollment in HSEC 1000.

HSEC 2004 3 CREDITS HOMELAND SECURITY AND LAW ENFORCEMENT

Students use criminological or criminal justice framework to analyze terrorist groups and individuals; terrorist origins, goals, dynamics, ideologies; counterterrorism; and homeland security. Students examine the structure and dynamics of terrorism, terrorist weapons, strategies and tactics, how they evolve, the ways in which they operate, how terrorists obtain funding, their use of the media, and theories of counterterrorism. Students review definitions of terrorism, analyze specific concepts, and examine issues that arise when responding to terrorism or the threat of terrorism. Cross-listed as CRMJ 2004. Prerequisite: Completion of or concurrent enrollment in HSEC 1000 or completion of or concurrent enrollment in ENGL 0810, or equivalent placement test score.

HSEC 2010 CYBERSECURITY

3 CREDITS

Students examine how the information revolution has created a new critical infrastructure--the internet. Students analyze the impact a cyber attack can have on national security, economic security, and/or public health and safety. Students evaluate cybercrimes and responses and recognize how the computer has become a tool, target, and place for criminal activity and national security threats. Students analyze the convergence of existing laws with new policies as well as explore the increase and impact of sophisticated cyber criminals and international cybercrime. Prerequisite: Completion of or concurrent enrollment in HSEC 1000.

HSEC 2013 3 CREDITS CYBERSECURITY CAPSTONE

Students demonstrate the knowledge and skills they have acquired throughout the Cybersecurity program within a Cyber Range, a controlled virtual environment designed to test student ability to protect systems against cyber attacks under realistic conditions. After completion of the practical portion of the lab, students develop a new policy or procedure to add to current cybersecurity practices. Crosslisted as CSEC 2013. Instructor consent required.

HSEC 2015 3 CREDITS CRITICAL INFRASTRUCTURES

Students analyze threats to critical facility and network infrastructure from an "all-hazards" perspective. Students examine the full range of natural, technological, and man-made disasters and the impact on our nation's critical infrastructure. Students develop risk and threat assessments, safety plans, and strategies for safer facilities and networks. Students identify the processes for implementing training, education, exercises, and evaluations to ensure infrastructure safety. Prerequisite: Completion of or concurrent enrollment in HSEC 1000.

HSEC 2025 TERRORISM

3 CREDITS

Students analyze the roots of terrorist activities throughout the world and discuss national, regional, and global effects of historical and recent terrorist acts, including the proliferation of weapons of mass destruction (WMD) and the impact of Chemical, Biological, Radiological, Nuclear, and Explosive (CBRNE) weapons. Students compare and contrast opposing viewpoints, leading students to develop a broad understanding of the evolution of terrorism and counterterrorism. Students consider historical defenses as well as new concepts and innovations for the prevention and mitigation of terrorist attacks.

^s Human Services

HMSV 1005 GROUP PROCESS

Students are introduced to the dynamics of group interaction with emphasis upon the student's firsthand experience as a group leader and member. The factors involved in problems of communication, effective emotional responses and personal growth will be highlighted. Emphasis will be placed on group process as a means of changing behavior. This course is designed to assist human services students who will function as group leaders and co-leaders. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

3 CREDITS

HMSV 1010 3 CREDITS ORIENTATION TO HUMAN SERVICES

Students explore the field of human services as a profession and the historical and philosophical framework of service delivery. Contemporary roles of the human service worker will be covered including areas such as typical duties and tasks of human service workers, working with a diverse array of client issues, intervention strategies and the sociocultural aspects of providing services in a multicultural diverse society. Students also examine the competencies and gualifications required to become an effective human service worker. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

HMSV 1060 3 CREDITS CASE MANAGEMENT

An introductory course focusing on observation, evaluation and record keeping in the human services field. Successful students demonstrate observation skills, analyze behavioral scales and checklists, and develop informal assessment tools. Students discuss objectivity in assessment, evaluation and documentation. Prerequisite: Completion of HMSV 1010 or permission of instructor.

HMSV 1110 3 CREDITS ETHICS FOR HELPING PROFESSIONS Students explore an evention of the

Students explore an overview of the ethical and professional issues that Human Services workers face in the field. Included are such topics as ethical decision making, professional responsibilities, liability, confidentiality, records and rights of clients, professional code of ethics, core values and personal issues, supervision, leadership and working with the legal system. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

HMSV 1200 FIELD EXPERIENCE IN HUMAN SERVICES I

Students gain knowledge and experience in the Human Services field by participating in on-the-job training. This 90 hour field experience is scheduled, structured and supervised by a state and/or nationally certified or licensed professional. In addition to the field experience, students meet for a weekly seminar with their instructor. Students perform relevant job duties and tasks within their community agency, attend supervision meetings, identify community resources that are applicable, and perform other job duties as assigned. Instructor permission is required for site choice. Prerequisite: Completion of HMSV 1010, HMSV 1060, HMSV 1110 and CNSL 2300.

3 CREDITS

HMSV 2030 3 CREDITS BEHAVIORAL HEALTH AND WELLNESS

Students explore the dimensions of wellness including the physical, emotional, social and spiritual components. Strategies for personal behavioral health and wellness including coping strategies, personal boundaries, self-awareness and how to avoid burnout on the job are practiced during the course of the class. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

HMSV 2110 4 CREDITS FIELD EXPERIENCE IN HUMAN SERVICES II

This is the second field experience course in the Human Services program. Students gain practical knowledge and experience in the Human Services field by participating in on-the-job training. This 120 hour field experience is scheduled, structured, and supervised by a state and/or nationally certified or licenses professional. In addition to the field experience, students meet for a weekly seminar with the instructor. Students perform relevant job duties and tasks within their community agency, attend supervision meetings, identify community resources that are applicable. and perform other job duties as assigned. Instructor permission is required for site choice. Prerequisite: Completion of HSMV 1200.

Humanities

HUMN 1010 3 CREDITS INTRODUCTORY HUMANITIES I

In Introductory Humanities I, students explore visual and performing arts, architecture, literature, music, philosophy and religions in their historical and social contexts from prehistory through the Middle Ages. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

HUMN 1020 3 CREDITS INTRODUCTORY HUMANITIES II In Introductory Humanities II, students

In Introductory Humanities II, students explore visual and performing arts, architecture, literature, music, philosophy and religions in their historical and social contexts from the Renaissance into postmodernism. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

HUMN 1080 INTRODUCTION TO WOMEN'S STUDIES

3 CREDITS

An introduction to the key issues in women's studies. Students examine women's participation in, and relationship to, institutions of society such as family and school, as well as processes and activities such as work, art, literature and politics in historical and cross-cultural analysis. Cross-listed as SOC 1080. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

HUMN 2330 3 CREDITS CONTEMPORARY AND MULTICULTURAL LITERATURE

This course investigates post-World War II literature in English, including fiction, poetry, and essays by ethnic writers. Students examine the "American Dream" as relevant to contemporary American life through discussion of such issues as pluralism, discrimination, class and cultural conflict, and gender issues. Cross-listed with ENGL 2330. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

HUMN 2395 MEXICAN CIVILIZATION

3 CREDITS

This is a historical and cultural survey of Mexico to include the study of pre-Hispanic civilizations, the Spanish conquest, the independence movement, the Mexican Revolution, and the modern era. Students gain an appreciation of the development of Mexican culture through its history and artistic thought and the influence that Mexico has had upon the United States. Cross-listed as HIST 2390. Prerequisites: Completion of ENGL 0810 or equivalent placement test score.

Independent Studies

A student may enroll for specialized study in most departments. Independent studies is closely supervised by the instructor, and courses must be pertinent to the student's goals.

Information Management

IMGT 2400 3 CREDITS INTRODUCTION TO INFORMATION MANAGEMENT

This course is concerned with the role of information systems in managing organizations to make them more competitive and efficient. Specific topics include organizational and technical foundation of informational systems and building and managing systems. Prerequisite: Completion of ACCT 2020.

Integrated Systems Technology

IST 1520 INTRODUCTION TO INDUSTRIAL SAFETY

Students identify sources of and describe safety rules, regulations, and practices related to job-site hazards, personal protective equipment, hazard communication, and electrical safety. Students are introduced to the Occupational Safety and Health Administration (OSHA) and evaluate the impacts that the organization has had on the American workplace. Students earn an OSHA 10 General Industry card upon completion.

IST 1610 FLUID POWER

2 CREDITS

2 CREDITS

1 CREDIT

Students identify, explain, describe and predict changes to hydraulic and pneumatic systems. Students increase their knowledge of the basic components found in industrial fluid powered systems. Students must enroll concurrently in IST 1611 to apply the topics of this course in a hands-on environment. Corequisite: Concurrent enrollment in IST 1611.

IST 1611 1 CREDIT FLUID POWER CIRCUITS

Learners demonstrate the safe use of fluid-powered components, the assembly of fluid-powered systems, the measurement of system characteristics, and the creation of system prints. Participants must have a thorough understanding of the knowledge related to these skills before attempting any maintenance actions. They complete all course competencies in a lab environment.

IST 1660 MECHANICAL DRIVES

Students identify and explain the safety rules, regulations, test procedures, installation, removal and operation of mechanical couplings, shafts and bearings. Students must enroll concurrently in IST 1661 to apply the topics of this course in a hands-on environment. Corequisite: Concurrent enrollment in IST 1661.

IST 1661 I CREDIT MECHANICAL DRIVE ASSEMBLIES

Learners practice electrical and mechanical safety while installing belt drives, chain drives, gears, couplings, and bearings. Participants must have a thorough understanding of the knowledge related to these skills before attempting any maintenance actions. They complete all course competencies in a lab environment.

IST 1710 DC ELECTRICITY

2 CREDITS

Students identify and explain electrical safety rules, concepts, and operating characteristics of direct current (DC) electrical circuits. Students also identify the operation and use of common electrical test equipment. Students must concurrently enroll in IST 1711 to apply the topics of this course in a hands-on environment. Corequisite: Concurrent enrollment in IST 1711.

IST 1711 1 CREDIT DC ELECTRICAL CIRCUITS

Learners practice electrical safety, soldering, circuit calculation, and circuit measurement skills. They construct their own digital multimeter and use that meter to explore DC circuit operation. Participants must have a thorough understanding of the knowledge related to these skills before attempting any maintenance actions. They complete all course competencies in a lab environment.

IST 1712 2 CREDITS AC ELECTRICITY

Students identify and explain electrical safety rules, concepts, and operating characteristics of alternating current (AC) electrical circuits. Students also identify the operation and use of common electrical test equipment. Students must concurrently enroll in IST 1713 to apply the topics of this course in a hands-on environment. Prerequisite: Completion of IST 1710 and IST 1711. Corequisite: Concurrent enrollment in IST 1713.

IST 1713 I CREDIT AC ELECTRICAL CIRCUITS

Learners practice electrical safety, soldering, circuit calculation, and circuit measurement skills. They construct their own function generator and use it, along with other test equipment, to explore AC circuit operation. Participants must have a thorough understanding of the knowledge related to these skills before attempting any maintenance actions. They complete all course competencies in a lab environment.

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IST 1730 2 CREDITS INTRODUCTION TO ELECTRICAL **FUNDAMENTALS**

Students examine direct current theories and apply those to the electrical system and related equipment. Students explore basic DC circuit calculations and analyze basic alternating current theories while applying those theories to electrical systems and related equipment. Students practice various methods of producing a voltage, studying essential generator and motor design, and construction and operating principles. Instructor consent required.

IST 1770 MOTOR CONTROLS

2 CREDITS

2 CREDITS

Students identify and explain safety rules, concepts, and operating characteristics of electric motor controls. Students must concurrently enroll in IST 1771 to apply the topics of this course in a hands-on environment. Prerequisite: Completion of IST 1712. Corequisite: Concurrent enrollment in IST 1771.

1 CREDIT IST 1771 MOTOR CONTROL CIRCUITS

Students practice mechanical and electrical system safety, build motor control circuits, and measure the operating characteristics of those motor control circuits. Students must have a thorough understanding of the knowledge related to these skills before attempting any maintenance actions. Students complete all course outcomes in a lab environment. Prerequisite: Completion of IST 1712, and completion of or concurrent enrollment in IST 1770.

IST 1780 ELECTRIC MOTORS

Students identify, explain, and classify the safety rules, regulations, and operating characteristics of direct current and alternating current motors as they learn to predict how changes affect how a motor operates. Students complete all competencies in a combination of selfpaced online materials and classroom activities. Students must concurrently enroll in IST 1781 to apply the topics of this course in a hands-on environment. Prerequisite: Completion of IST 1712. Corequisite: Concurrent enrollment in IST 1781.

1 CREDIT IST 1781 **ELECTRIC MOTOR CIRCUITS**

Students configure, install, and operate direct current and alternating current motors. Students also select, inspect, use, and maintain electrical test equipment. Students must have a thorough understanding of the knowledge related to these skills before attempting to perform any maintenance actions. Students complete all course outcomes in an industrial maintenance laboratory environment. Prerequisite: Completion of IST 1712, and completion of or concurrent enrollment in IST 1780.

IST 1810 **1 CREDIT PROGRAMMABLE LOGIC** CONTROLLERS

Students explore the hardware and software used to control automated industrial equipment. Students identify, classify and predict the operational characteristics of fixed and modular programmable logic controllers. Students must concurrently enroll in IST 1811 to apply the topics of this course in a hands-on environment. Prerequisite: Completion of IST 1710 and IST 1712. Corequisite: Concurrent enrollment in IST 1811.

IST 1811 **1 CREDIT** PLC CIRCUITS I

Learners connect, program, and operate programmable logic controllers (PLCs). They use PLC hardware and software to interface input and output modules with industrial system components while creating their own computer programs to control system operation. Participants must have a thorough understanding of the knowledge related to these skills before attempting to perform any maintenance actions. They complete all outcomes in a laboratory environment.

IST 1830 2 CREDITS INTRODUCTION TO MECHANICAL **FUNDAMENTALS**

Students explore the mechanical concepts commonly found in a plant setting and examine piping systems including dimensions, connections, blinding, and other concepts. Students operate common hand tools and define terminology found in many plants. Students examine steam traps, strainers and their applications, and are also introduced to common pumps and drivers, compressors and fans, and heat exchangers. Instructor consent required.

IST 2800 DATA ACQUISITION

Learners explore the measurement of variables common in industrial environments. They apply the economic aspect of measuring instruments, the social aspect of presentation of information, and the feedback of control data to a variety of industrial scenarios. They complete all outcomes in an online environment.

1 CREDIT

4 CREDITS

Japanese

JAPN 1010 FIRST YEAR JAPANESE I

Students develop basic speaking. listening, reading and writing skills in the Japanese language and explore cultural aspects of the Japanese-speaking world.

JAPN 1020 4 CREDITS FIRST YEAR JAPANESE II

Students continue their development of basic speaking, listening, reading and writing skills in the target language and explore cultural aspects of the Japanesespeaking world. Prerequisite: Completion of JAPN 1010 or equivalent course.

IAPN 2030 4 CREDITS SECOND YEAR JAPANESE I

Students refine their reading, speaking and writing in original Japenese syllabaries including elementary kanji characters for daily practical application. Students also explore various elements of Japanese culture. Prerequisite: Completion of JAPN 1020 or equivalent course.

JAPN 2040 4 CREDITS SECOND YEAR JAPANESE II

Students continue to develop reading. speaking and writing skills in original Japanese syllabaries, including hiragana and Katakana and elementary kanji for daily practical application. Prerequisite: Completion of JAPN 2030.

Kinesiology

KIN 1006

2 CREDITS FITNESS COMPONENT: FLEXIBILITY

Students examine the multiple facets that comprise the fitness component of flexibility. Students develop knowledge of the health benefits of flexibility, test flexibility, design flexibility programs, and identify multiple methods of flexibility including, but not limited to static, dynamic, active, passive, and proprioceptive neuromuscular facilitation (PNF). Prerequisite: Previous or concurrent enrollment in PEAC 1295.

KIN 1007 2 CREDITS FITNESS COMPONENT: CARDIOVASCULAR ENDURANCE

Students examine the multiple facets that comprise the fitness component of cardiovascular endurance. Students develop an understanding of the heart and lungs and the role exercise and physical activity play in either improving or maintaining this critical body system. Students explore the energy systems, recovery, target heart rate, training zone, and perceived rate of exertion as elements of this fitness component. Students evaluate and design cardiovascular endurance programs. Prerequisite: Completion of or concurrent enrollment in PEAC 1295.

KIN 1008 2 CREDITS FITNESS COMPONENT: MUSCULAR STRENGTH/YMUSCULAR ENDURANCE

Students examine the fitness component of muscular strength/endurance. Students develop multi-joint pushing, pulling, and lower body exercises. Students understand pros/cons of resistance training tools, including but not limited to barbells, dumbbells, kettlebells, medicine balls, body weight and weight machines. Students distinguish the differences between muscular strength and muscular endurance and the unique role each one plays in their overall fitness. Prerequisite: Previous or concurrent enrollment in PEAC 1295.

KIN 1010 3 CREDITS INTRODUCTION TO SPORT MANAGEMENT

Students examine the historical development, current trends, best practices, and future trends of sport management. Foundational principles will be taught within the framework of professional, collegiate, interscholastic, non-traditional, and youth and community sport in select subject areas including: the history of sport management and current curriculum, careers in sport management, marketing, ethics, finance, law, management, communications, facility design and management, and sociology.

KIN 1100 3 CREDITS KINESIOLOGY, THE SCIENCE OF HUMAN MOVEMENT

Students examine the science and study of human movement. Students explore the many sub-disciplines of human movement including biomechanics, motor control/learning/development, injury prevention, community and public health, teaching physical and health education, exercise physiology, sport and exercise psychology, sport sociology, physical education epidemiology, and athletic training.

KIN 2135 3 CREDITS PERSONAL TRAINER EDUCATION

Students are introduced to the principles of exercise physiology and client assessment. Students learn to properly screen clients for safe participation in an exercise program, utilize different tools for assessing a clients' fitness level, and identify appropriate assessment techniques for a wide variety of clientele. Students learn components of program design for resistance, cardiorespiratory, comprehensive, and personal training sessions. Prerequisite: Completion of PEAC 1295. Corequisite: Concurrent enrollment in HLTK 1210 and HOEC 1140. KIN 2470 1 CREDIT EXERCISE SCIENCE PRACTICUM I

Students work in conjunction with Exercise Science instructors to provide individual planning and programming for a variety of populations. Students also observe professionals in Exercise Science related fields in a variety of settings. This is the first of a two practicum sequence. Prerequisite: Completion of KIN 2135.

KIN 2471 2 CREDITS EXERCISE SCIENCE PRACTICUM II

Students work in conjunction with Exercise Science instructors to provide individual exercise planning and programming for a variety of populations. Students also observe professionals in Exercise Science related fields. This is the second of a two practicum sequence. Prerequisite: Completion of KIN 2470.

KIN 2472 1 CREDIT SPORT MANAGEMENT PRACTICUM I

Students work in conjunction with Exercise Science faculty and members of various organizations to provide services within the field of Sport Management. This is the first of a three practicum sequence. Prerequisite: Completion of or concurrent enrollment in KIN 1010.

KIN 2473 2 CREDITS SPORT MANAGEMENT PRACTICUM II

This is the second of a three course progression. Students work in conjunction with Exercise Science faculty and members of various organizations to provide services within the field of Sport Management. In this level 2 practicum, students with the guidance of Exercise Science faulty or others within sport management fields, develop, plan and implement an event. Prerequisite: Completion of KIN 2472.

KIN 2474 3 CREDITS SPORT MANAGEMENT PRACTICUM III

This is the third of a three course progression. Students work in conjunction with Exercise Science faculty and members of various organizations to provide services within the field of Sport Management. In this level 3 practicum, students select two specific areas within sport management which they wish to explore more in depth. Prerequisite: Completion of KIN 2473.

Latin

LATN 1010 FIRST YEAR LATIN I

An introductory, college-level course focusing on vocabulary development and the fundamentals of grammatical structure, composition, and reading. Students demonstrate a command of basic grammatical structures and will be able to read and comprehend excerpts from ancient authors. Students also will be able to recognize the contributions of Latin to the English language while expanding their appreciation of Roman literature, thought, and expression. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

LATN 1020 4 CREDITS FIRST YEAR LATIN II

A continuation of an introductory, college-level course focusing on vocabulary development and the fundamentals of grammatical structure, composition, and reading. Students demonstrate a command of more complex grammatical structures and will be able to read and comprehend excerpts from ancient authors. Students also will be able to recognize the contributions of Latin to the English language while expanding their appreciation of Roman literature, thought, and expression. Prerequisite: Completion of LATN 1010.

LATN 2030 SECOND YEAR LATIN

An intermediate, college-level course focusing on the review and mastery of major grammatical structures of the language, as well as the refinement of basic skills through readings based on works by Latin writers. Students demonstrate a command of complex grammar structures and idiomatic expressions, translate passages of increasing difficulty, and interpret Latin poetry and prose in cultural context. In addition, students develop a recognition of the contributions of Latin to the English language while expanding their appreciation of Roman literature, thought, and expression. Prerequisite: Completion of LATN 1020.

LATN 2110 4 CREDITS VERGIL, THE AENEID I

This course is designed to cover the second-year sequence in Latin within one semester, and thus prepares students for upper division classes the following semester. Students review syntactical principles, and they acquire rapid reading ability through the study of Vergil's Aeneid. Students survey the main interpretative issues surrounding Vergil's Aeneid. In addition, students develop an understanding and appreciation of the formal structure of the Latin language and also the ability to scan and read Latin hexameters out loud. Prerequisite: Completion of LATN 2030.

4 CREDITS

4 CREDITS

Library Science

LIBS 1000 I CREDIT LIBRARY RESEARCH METHODS

Students create a research plan and develop search strategies to effectively identify, locate, evaluate, and use information to solve problems or answer questions in their academic, professional, or personal lives. Students practice search strategies using library catalogs, databases, and web search engines. Students apply evaluation criteria, using information in a legal and ethical manner with citations.

LIBS 1100 1 CREDIT LIBRARY RESEARCH METHODS FOR SOCIAL SCIENCES

Students create a research plan and develop search strategies to effectively identify, locate, evaluate, and use information to solve problems or answer questions for any class in the social sciences meta-major. Students practice search strategies using library catalogs, databases, and web search engines. Students apply evaluation criteria using information in a legal and ethical manner with citations.

Management

MGT 1000 3 CREDITS INTRODUCTION TO SUPERVISION

Students acquire techniques to improve or establish themselves as first-line supervisors. The student will understand and be able to apply basic management principles in solving problems encountered by first-line supervisors. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

MGT 1010 1 CREDIT EMPLOYMENT ORIENTATION I

A preparation for the job search and suggestions for career progression. Included are current employment market information, resumes, employment applications, and interviews.

MGT 1200 3 CREDITS HUMAN RESOURCES MANAGEMENT

Students obtain knowledge of the components of human resource management. Major areas of focus are human behavior, human resource planning, job analysis and design, employee assistance programs, wage and salary administration, performance appraisal system, collective bargaining, and labor law. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

MGT 1500 3 CREDITS LEADERSHIP ESSENTIALS

Students develop performance-based competencies and skills needed to prepare for leadership positions in today's workplace. Topics explored include leadership communication, conflict resolution, employee and selfdevelopment, change management, coaching, managing performance problems, and team building. Students develop action plans for transitioning the skills discussed during class into the workplace. (This course is not intended for transfer.)

MGT 1590 1-2 CREDITS ENTREPRENEURIAL LEADERSHIP I

In this course, students gain hands-on experience in entrepreneurial leadership activities. This course is for current Rotaract participants or students wishing to join Rotaract and take a leadership role in the community. Prerequisite: Completion of ENGL 0810 and instructor approval.

MGT 2100 3 CREDITS PRINCIPLES OF MANAGEMENT

Students examine the theory and practice of management. Utilizing goal-oriented action, students work collaboratively to create a service project for a non-profit agency integrating the four functions of management: planning, organizing, leading and controlling. Students examine the rolls and responsibilities of modern managers in an organization. Prior completion of BADM 1000 is encouraged but not required.

MGT 2475 1-6 CREDITS MANAGEMENT INTERNSHIP

Students apply learned theory under the supervision of a professional manager in a cooperating organization. The student, professional manager, and advisor will develop a project with appropriate educational objectives for the student to apply his or her knowledge in completing an actual business management project. One to six semester hours of credit will be granted based on the developed Internship Action Plan. May be repeated for up to 6 credit hours. Prerequisite: Advisor approval.

MGT 2590 1-2 CREDITS ENTREPRENEURIAL LEADERSHIP II

In this course, students gain hands-on experience in entrepreneurial leadership activities. Students build on the concepts and practices developed in MGT 1590. This course is for current Rotaract participants or students wishing to join Rotaract and take a leadership role in the community. Prerequisite: Completion of ENGL 0810 and instructor approval.

Marketing

MKT 1000 PERSONAL SELLING

3 CREDITS

An introduction to personal selling. Students gain skills and knowledge necessary to take a relationship approach to selling themselves, their ideas, and even their products/services to others. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

MKT 1300 3 CREDITS ADVERTISING

Students acquire knowledge of the four elements of the promotional blend. Students understand the role of advertising relative to a firm's profit or nonprofit marketing strategy. The focus will be on market segment identification, consumer appeals, media planning, and promotion budgets. Prerequisite: Completion of BADM 1000 or equivalent preparation.

MKT 2100 3 CREDITS PRINCIPLES OF MARKETING

Students investigate the marketing discipline with emphasis on vocabulary, principles, functional interrelationships, marketing strategies, practices and problems in national and international environments. Prerequisite: Completion of ECON 1010.

Mass Media/Multimedia

MMMM 1000 3 CREDITS INTRODUCTION TO MASS MEDIA

In this general survey course, students explore the major mass media and their roles in modern society. Topics include books, magazines, newspapers, movies, radio, recordings, television, new electronic media, internet, advertising, public relations, and media law, ethics and social responsibility. Students trace the historical development of each medium and analyze its impact upon American culture. Prerequisites: Completion of ENGL 0810 or equivalent placement test score.

MMMM 1111 3 CREDITS JOURNALISTIC WRITING

A study of the form, structure, and style of writing for the mass media. Topics include the Associated Press Stylebook, copy editing symbols, word usage, concise and precise sentence structure, basic news leads, alternative news leads, and inverted pyramid style. Extensive practice in grammar and punctuation. An excellent course for professionals who want to update or refresh their skills. Prerequisite: Completion of ENGL 0810 or equivalent placement test score, some keyboarding skills required.

MMMM 1370 3 CREDITS PUBLICATIONS PRODUCTION I

This course prepares students to assume the responsibility of publishing the college's four-color newspaper four times a semester. Students are expected to write news and feature stories; to sell effective advertising; to follow a dummy to design pages using desktop publishing; to meet deadlines, perform under pressure, and work in teams; and to become knowledgeable about journalism ethics and decision-making.

MMMM 1371 3 CREDITS MULTIMEDIA PRODUCTIONS I

Students develop the basic skill set to contribute to publishing the college's newspaper content in a weekly online format. Students write breaking news and feature stories quoting at least one source, recognizing appropriate style for online publishing; copyedit their own stories; sell effective advertising, tracking contacts with potential advertisers; and design pages using Web page design software.

MMMM 1375 3 CREDITS PUBLICATIONS PRODUCTION II

This course prepares students to assume the responsibility of publishing the college's four-color newspaper four times a semester. Students are expected to originate and write multiple-source stories; to make editorial judgments about copy; to scale photographs and illustrations; to design effective advertising page; to meet deadlines, perform under pressure, and work in teams; and to become knowledgeable about journalism ethics and decisionmaking. Prerequisite: Completion of MMMM 1370.

MMMM 1376 3 CREDITS MULTIMEDIA PRODUCTIONS II

Students continue to develop the basic skill set to contribute to publishing the college's newspaper content in a weekly online format. Students write breaking news and feature stories, interviewing at least two sources for each story; copyedit their own stories as well as other staffers, demonstrating a strong understanding of copy editor's marks; interview an advertising client and execute advertising to their satisfaction; design pages using Web page design software and HTML and upload them to the site; prepare photos for use on the Web; record audio for audio clips; and edit audio. Prerequisite: Completion of MMMM 1371.

MMMM 2100 3 CREDITS REPORTING AND NEWSWRITING

REPORTING AND NEWSWRITING Intensive practice in gathering and writing news. Topics include journalistic jargon, news judgment, interviewing techniques, law and ethics, computerassisted reporting, and careers. Students write the following kinds of stories: news, features, roundups, sidebars, follow-ups, obituaries, legislative, statistical, controversial, speeches, meetings, brights, public affairs, news conference, and public relations releases. Prerequisites: Completion of ENGL 0810 or equivalent placement test score, and MMMM 1111, and some keyboarding skills required.

MMMM 2222 3 CREDITS DESKTOP AUDIO/VIDEO PRODUCTION

Students work in a desktop audio and video production environment learning the techniques of traditional audio and video production and applying them to a modern, small staff digital production studio. Students also learn techniques and acquire production skills related to production for MPEG compression and bandwidth-restricted delivery environments. Working as a production team, students create content for multimedia delivery. Keyboarding skills and knowledge of Windows is recommended.

MMMM 2224 1 CREDIT DIGITAL VIDEO EDITING BASICS

This course uses entry-level digital video editing software that is more user friendly and more automated, allowing students to focus more on the creative rather than technical aspects of creating a video. Students practice basic editing techniques; digitize, import, and export files; manipulate video and audio files and still images; and compose an original video presentation that is aesthetically pleasing and communicates clearly to an audience. This class is also suitable for the intermediate editor as well as professionals who want to distribute video on the internet, into an MP3, or through a DVD. Prerequisite: A working knowledge of computers. including copying, moving, and deleting files.

MMMM 2310 DESKTOP PUBLISHING

3 CREDITS

Desktop publishing (DTP) merges the fields of writing and editing, typography, photography and graphics, layout and design, and printing. Using industrystandard desktop publishing software, students create a variety of practice publications as well as their own original documents. Students work with text and graphic frames, manipulate text formatting, incorporate process and spot colors, develop tables and use tabs properly, create graphics and work with transparency, and package and export documents for commercial printing.

MMMM 2320 3 CREDITS ADVANCED DESKTOP PUBLISHING

In this advanced DTP course, students focus on creating longer and more complicated documents using industry-standard desktop publishing software. Students develop multiple master pages and templates; create a table of contents and index for a book; prepare color separations; write headlines and photo cutlines; and apply principles of color theory, good design, and proper typography. Projects include advertisements, logos, fliers, business forms, informational graphics, newsletters, newspapers, and books. Prerequisite: Completion of MMMM 2310.

MMMM 2325 3 CREDITS COMPUTER GRAPHICS

This course introduces students to a sophisticated computer graphics software package. Using a variety of electronic tools, students master creating, drawing, editing, and manipulating objects. Students incorporate color and typography, particularly special effects, into a variety of design projects and establish a relationship of computer-generated art to other software applications, such as multimedia, digital photography, and desktop publishing. Prerequisites: Keyboarding required. Windows knowledge recommended.

MMMM 2326 3 CREDITS INTERACTIVE MEDIA DESIGN

Students learn to plan and design interactive media products for use in multimedia presentations, web pages and internet applications. Students apply principles of usability design and understanding the medium by planning, developing, and evaluating user requirements, personas, navigation, information architecture, site maps, wire-framing, visual hierarchy, paper prototyping and user tests.

MMMM 2327 3 CREDITS 3D COMPUTER ANIMATION

Students create 3D computer animation for use in multimedia and television productions. Students practice techniques in object modeling and texturing and develop skills in scene composition and layout. Examples of 3D animation will be explored in film, television and multimedia. Students work on the same animation systems used in major production studios.

MMMM 2370 3 CREDITS PUBLICATIONS PRODUCTION III

This course prepares students to assume the responsibility of publishing the college's four-color newspaper four times a semester. Students are expected to originate and write specialty stories; to copyedit stories, make editorial judgments, and analyze readability; to select photographs and illustrations/ graphics for publication; to market effective advertising campaigns; to design multiple-page spreads using desktop publishing; to meet deadlines, perform under pressure, and work in teams; and to become knowledgeable about journalism ethics and decisionmaking. Prerequisite: Completion of MMMM 1375.

MMMM 2371 3 CREDITS MULTIMEDIA PRODUCTIONS III

Students take a lead role as an editor in publishing the college's newspaper content in a weekly online format. Students write stories, taking additional responsibility to ensure each story is enriched with multimedia components; copyedit stories and write meaningful headlines and subheads; develop a marketing campaign for a new advertiser; design pages using Web page design software and HTML, including taking responsibility for one or more of the main content pages; create galleries and audio slideshows; and record video for clips. Prerequisite: Completion of MMMM 1376.

MMMM 2375 3 CREDITS PUBLICATIONS PRODUCTION IV

This course prepares students to assume the responsibility of publishing the college's four-color newspaper four times a semester. Students are expected to originate and write investigative stories; to review all copy for libel; to apply standards of good taste to publication photographs and graphics; to develop conflict resolution skills; to coordinate the overall publication design using desktop publishing; to work with a professional printer; to meet deadlines, perform under pressure, and work in teams; and to become knowledgeable about journalism ethics and decisionmaking. Prerequisite: Completion of MMMM 2370.

MMMM 2376 3 CREDITS MULTIMEDIA PRODUCTIONS IV

Students take a lead role as an editor in publishing the college's newspaper content in a weekly online format. Students write breaking news, feature stories, and a weekly blog; copyedit and approve all content prior to posting; make assignments to junior staff members and assign deadline dates; organize publication advertising and resolve conflicts with advertisers; design pages using Web page design software and HTML; develop templates using Cascading Style Sheets (CSS); troubleshoot coding issues; and edit video for narrowcasting. Prerequisite: Completion of MMMM 2371.

MMMM 2400 3 CREDITS INTRODUCTION TO PHOTOGRAPHY Students learn to manually compose photographs with single lens reflex cameras in both the digital and film formats; apply compositional guidelines to photography; critique images emphasizing artistic and journalistic methods; discuss image aesthetics in relation to historic process and forms of photographic involvement.

MMMM 2401 FIBER-BASE PRINTING

An intermediate photography course building on the lessons of MMMM 2400--Introduction to Photography. Students produce black and white archival negatives and prints illustrating formative and comparative qualities of light. Prerequisite: Completion of MMMM 2400 or permission of instructor.

1 CREDIT

1 CREDIT

MMMM 2402 FLASH PHOTOGRAPHY

An intermediate photography course building on the lessons of MMMM 2400--Introduction to Photography. Students produce black and white prints and slide sequences using the basic principles of flash photography, including but not limited to, auto and manual exposures, the Guide Number Formula, on-camera flash, bounce flash or offcamera flash, fill flash, and painting with flash. Prerequisite: Completion of MMMM 2400 or permission of instructor.

MMMM 2403 1 CREDIT SPECIAL EFFECTS PHOTOGRAPHY

An intermediate photography course building on the lessons of MMMM 2400--Introduction to Photography. Students produce a wide variety of special effects prints and slides using the effects of color temperatures of light on transparency (slide) films, hand-coloring of black and white prints, color printing techniques, and toning. Prerequisite: Completion of MMMM 2400 or permission of instructor.

MMMM 2405 1-3 CREDITS DARKROOM PRODUCTION

In Darkroom Production, experienced students work in the darkroom on an individual basis, receiving periodic feedback from the instructor. Each student sets goals for the semester that might include improvement in printing technique, broadened understanding of camera operations, and/or enrichment of a special project or personal body of work. Prerequisite: Completion of MMMM 2400 or instructor approval.

MMMM 2406 I CREDIT DIGITAL CAMERA BASICS I

Students shoot photographs with a digital camera, experimenting with zoom lenses, exposure modes, flash and image quality. Students develop their skills in composing and taking photographs. Then they use a basic image editing software program to crop, manipulate and improve their images. Students also prepare images for printing and e-mail distribution. Prerequisites: A digital camera and a working knowledge of computers, including e-mail, Web browsing, and copying, moving, and deleting files.

MMMM 2407 1 CREDIT DIGITAL CAMERA BASICS II

In this continuation course, students demonstrate their skills in setting advanced options on a digital camera and photographing close-up and small objects. They also develop additional skills in a basic image editing software program to convert images to grayscale, duotone, and other "false" colors and to create montages and panoramic photos. Then using an image management software program, students organize, find, and view their photographs. Prerequisites: Completion of MMMM 2406, and students need a working knowledge of computers, including e-mail, Web browsing, and copying, moving, and deleting files.

MMMM 2408 3 CREDITS DIGITAL PHOTOGRAPHY

In this introduction to digital image capture and manipulation media course, students create digital images with a digital camera. Students demonstrate camera capture modes, evaluate compositional guidelines in their images, recognize appropriate color modes, resolution, and file formats for standard methods of output, analyze ethical and legal issues, and recognize and apply color correction, retouching and restoration techniques.

MMMM 2491 3 CREDITS TOPICS IN JOURNALISM

A course offering a variety of topics in journalism such as advertising, layout, and public relations. A maximum of 12 hours may be applied toward a degree in journalism. Prerequisites: Completion of ENGL 0810 or equivalent placement test score.

Mathematics

MATH 0900 PRE-ALGEBRA

3 CREDITS

Students acquire knowledge of addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals; averages; exponents; percents; ratios and proportions; weights and measures including metric system; signed numbers; and introductory geometry and algebra. Prerequisite: Math placement score in Level B.

MATH 0921 ALGEBRA I

3 CREDITS

Students study algebraic expressions and algebraic equations. Students acquire knowledge and develop skills that enable them to solve algebraic expressions, solve linear equations, use the rules of exponent, and perform operations on polynomials and factor polynomials. Prerequisite: Completion of MATH 0900 or equivalent placement test score.

MATH 0925 ALGEBRA II

3 CREDITS

This course involves a study of algebraic equations and functions. Successful students acquire knowledge and develop skills that enable them to solve linear systems of equations and inequalities, solve quadratic equations, perform operations on rational and radical expressions, and identify functions and use function notation.

MATH 0960 4 CREDITS INTEGRATED STATISTICS STATWAY I

Students analyze statistical concepts and methods with an emphasis on data analysis. Students explore the data analysis process, procedures to follow in summarizing data both graphically and numerically, strategies used in reasoning about bivariate numerical data including linear relationships, bivariate categorical data, nonlinear relationships and probability. MATH 0960 is the first course in the Statway sequence. This course is recommended to students who plan to continue the Statway sequence by enrolling in STAT 2060 after successfully completing this course. Prerequisite: Completion of MATH 0900 or equivalent placement test score.

MATH 0970 4 CREDITS INTEGRATED PROBLEM SOLVING QUANTWAY I

Students integrate numeracy, proportional reasoning, algebraic reasoning, and understanding of functions. Students explore numerical concepts, quantitative reasoning, graphical displays of data, proportional relationships in real-world problems, problem solving with equations, functions, linear and exponential models and other mathematical models using an activity based approach. Students develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. This is the first course in the Quantway sequence. This course is recommended to students who are planning to continue the Quantway sequence by enrolling in MATH 1000 after successfully completing this course. Successful completion, grade C or higher, of MATH 1010 is equivalent to successful completion of MATH 0970 and MATH 1000. Students cannot receive credit for MATH 1000 and MATH 1010. Prerequisite: Completion of MATH 0900 or equivalent placement test score.

MATH 0980 4 CREDITS INTEGRATED COLLEGE ALGEBRA ALGEBRAWAY I

Students learn from clear and concise conceptual examples and problem sets enabling them to select appropriate mathematical information, technologies and use skills in organizing mathematical techniques, processing, planning, and problem solving. This is the first course in the Algebraway sequence. This course is recommended to students who are planning to continue the Algebraway sequence by enrolling in MATH 1380 after successfully completing this course. This course is recommended to students who are planning to complete the Algebraway sequence. Successful completion of grade C or higher in MATH 1400 is equivalent to successful completion of MATH 0980 and MATH 1380. Students cannot receive credit for MATH 1380 and MATH 1400. Prerequisite: Completion of MATH 0900 or equivalent placement test score.

MATH 0990 INTEGRATED PRE-CALCULUS STEMWAY I

Students learn from clear, concise conceptual examples and problem sets enabling them to select appropriate mathematical techniques, technologies, and the use of those skills in organizing mathematical information, processing, planning, and problem solving. This course is recommended to students who are planning complete the Stemway sequence. MATH 1401 is equivalent to successful completion of MATH 0990 and MATH 1390. Students cannot receive credit for MATH 1390 and MATH 1401. Prerequisite: Equivalent placement test score or MATH 0900.

4 CREDITS

MATH 1000 3 CREDITS INTEGRATED PROBLEM SOLVING QUANTWAY II

Students learn about applications and appreciation of quantitative literacy. Interpreting information from realworld sources to solve problems using numerical, algebraic, and graphical knowledge will be covered. Various uses of mathematical models are explored, and statistical thinking is developed. The contexts include financial, environmental, social, public and personal health. This course is recommended to students who are planning to complete the Quantway sequence. Completion of MATH 0970 and MATH 1000 is equivalent to successful completion of MATH 1010. Prerequisite: Completion of MATH 0970.

MATH 1010 3 CREDITS PROBLEM SOLVING

Students acquire knowledge and develop skills that will enable them to formulate, analyze, and interpret quantitative arguments in a variety of settings; use a hand-hand calculator in problem solving; and solve application problems in a variety of real world situations. Successful completion, grade C or higher, of MATH 1010 is equivalent to successful completion of MATH 0970 and MATH 1000. Students cannot receive credit for MATH 1000 and MATH 1010. MATH 1010 will not meet a prerequisite for MATH 1400. Prerequisite: Equivalent placement test score.

MATH 1100 3 CREDITS NUMBERS AND OPERATIONS FOR ELEMENTARY SCHOOL TEACHERS

This is the first of a three-course sequence involving a study of the mathematics necessary for teaching basic arithmetic to elementary school students. Successful students demonstrate knowledge of place value; acquire knowledge and develop skills in the four basic arithmetic operations using both standard and alternative algorithms for whole numbers, fractions, and decimals; and apply logic and problem-solving strategies to deepen their understanding of math concepts and content of elementary school curriculum. Prerequisite: Concurrent enrollment in MATH 0980 or Level 3 on the Math Placement Exam or a Math ACT of 23 or Math SAT of 600. Corequisite: Concurrent enrollment in EDEL 1410.

MATH 1105 3 CREDITS DATA, PROBABILITY, AND ALGEBRA FOR ELEMENTARY SCHOOL TEACHERS

This is the second of a three-course sequence involving a study of the mathematics necessary for teaching basic arithmetic to elementary school students. Successful students demonstrate knowledge of appropriate statistical methods, representations, graphical displays, and technological tools to analyze and draw conclusions using data. Using elementary probability theory, students predict the chance of future events. Using algebra students generalize and communicate patterns. Prerequisite: Completion of MATH 1100.

MATH 1380 3 CREDITS INTEGRATED COLLEGE ALGEBRA ALGEBRAWAY II

Students learn from clear, concise conceptual examples and problem sets enabling them to select appropriate mathematical techniques and technologies and use skills in organizing information, processing, planning, and problem solving. This course is recommended to students who are planning to complete the Algebraway sequence. Successful completion of MATH 2205 or MATH 1400 with a grade C or higher is equivalent to successful completion of MATH 0980 and MATH 1380. Students cannot receive credit for MATH 1380 and MATH 1400. Prerequisite: Completion of MATH 0980.

4 CREDITS

MATH 1390 INTEGRATED PRE-CALCULUS STEMWAY II

Students learn from clear, concise conceptual examples and problem sets enabling them to select appropriate mathematical techniques, technologies, and the use of those skills in organizing mathematical information, processing, planning, and problem solving. This course is recommended to students who are planning to complete the Stemway sequence. MATH 1401 is equivalent to successful completion of MATH 0990 and MATH 1390. Students cannot receive credit for MATH 1390 and MATH 1401. Prerequisite: Completion of MATH 0990.

MATH 1400 3 CREDITS COLLEGE ALGEBRA

Students learn from clear, concise conceptual examples and problem sets enabling them to select appropriate mathematical techniques and technologies and use skills in organizing information, processing, planning, and problem solving. Completion of MATH 1400 is equivalent to successful completion of MATH 0980 and MATH 1380. Students cannot receive credit for MATH 1380 and MATH 1400. Prerequisite: Equivalent placement test score.

S MATH 1401 PRE-CALCULUS

Students will be able to determine the following concepts to all functions. Functions that are constructed from (1) linear, quadratic, cubic, and higher degree polynomials, (2) exponential, (3) logarithmic, (4) square root, cube root, and general fractional powers (5) absolute, and (6) one over x, and one over x squared, and general rational functions involving sums, differences, products, quotients, and compositions of these six general types of functions. MATH 1401 is equivalent to successful completion of MATH 0990 and MATH 1390. Students cannot receive credit for MATH 1380 and MATH 1401. Prerequisite: Equivalent placement test score.

MATH 1405 3 CREDITS PRE-CALCULUS TRIGONOMETRY

Students acquire knowledge and develop skills that enable them to define, evaluate, and graph trigonometric functions and their inverses; solve trigonometric equations; solve triangles; solve applications using vectors; and represent complex numbers in trigonometric form. Students receiving credit for MATH 1450 cannot receive credit for MATH 1450. A specific calculator is required for this course. See a math instructor for acceptable models. Prerequisite: Completion of MATH 1400 or equivalent placement test score.

MATH 1450 5 CREDITS PRE-CALCULUS ALGEBRA/ TRIGONOMETRY

MATH 1450 is an accelerated course that includes content from both MATH 1400 and MATH 1405. Successful students acquire knowledge and develop skills that prepare them to succeed in Calculus. Students study polynomial, rational, logarithmic, exponential, and trigonometric functions and their inverses. Students investigate and graph functions and their translations. Students solve equations and inequalities using a variety of methods. Students solve triangles and solve applications using vectors. This course replaces credit for MATH 1400 and/or MATH 1405. A specific calculator is required for this course. See a math instructor for acceptable models. Prerequisite: Completion of MATH 1400 or equivalent placement test score.

MATH 1510 3 CREDITS TECHNICAL MATHEMATICS I

Students study the use of basic mathematical principles in work-related situations. Successful students acquire skills in basic math, algebra, problemsolving techniques, measurement systems, basic geometry, ratio and proportion, graphs, charts, and tables. Prerequisite: Completion of MATH 0900 or equivalent placement test score.

MATH 2120 3 CREDITS GEOMETRY AND MEASUREMENT FOR ELEMENTARY SCHOOL TEACHERS

This is the third of a three-course sequence involving a study of the mathematics necessary for teaching basic arithmetic to elementary school students. In this course students develop spatial reasoning. Successful students demonstrate knowledge of geometric objects and their relationships and use geometry, measurement, and estimation in problem solving. Prerequisite: Completion of MATH 1100 and concurrent enrollment in EDEL 2410.

MATH 2200 4 CREDITS CALCULUS I

Students acquire knowledge and develop skills that enable them to find derivatives numerically, graphically, and analytically, use the derivative to solve application problems, and find the integral numerically, graphically, and in some cases analytically. Prerequisite: Placement in ENGL 0810 and MATH 1405 or MATH 1450, or equivalent placement test score.

MATH 2205 4 CREDITS CALCULUS II

Students acquire knowledge and develop skills that enable them to use various integration techniques; solve application problems using integration; and approximate elementary function using Taylor and Maclaurin Series. A specific calculator is required for this course. See a math instructor for acceptable models. Prerequisite: Completion of MATH 2200 or equivalent placement test score.

MATH 2210 CALCULUS III

4 CREDITS

Students acquire knowledge and develop skills that enable them to differentiate and integrate functions; analyze the equations of lines, planes, and some solid figures in space; use two- and three-dimensional vectors; use vectorvalued functions in solving application problems; and apply vector fields to various application problems. A specific calculator is required for this course. See a math instructor for acceptable models. Prerequisite: Completion of MATH 2205 or equivalent placement test score.

MATH 2250 3 CREDITS ELEMENTARY LINEAR ALGEBRA

Students study matrices, systems of linear equations, linear transformations, and vector spaces. Successful students acquire knowledge and develop skills which enable them to perform matrix operations, solve systems of equations using Gaussian elimination, find a basis for a given set of vectors, orthogonalize a matrix, find the eigenvalues and eigenvectors for a given matrix, and solve applications. A specific calculator is required for this course. See a math instructor for acceptable models. Prerequisite: Completion of MATH 2200.

MATH 2300 3 CREDITS DISCRETE STRUCTURES

Students are introduced to the mathematical concepts that serve as foundations of computer science: logic, set theory, relations and functions, graphs (directed and undirected), inductively defined structures (lists and trees), and applications of mathematical induction. Provides an introduction to abstract and rigorous thinking in advanced mathematics and computer science. Cross-listed as COSC 1030. Prerequisite: Completion of COSC 1030 or MATH 2200 or MATH 2350.

MATH 2310 3 CREDITS APPLIED DIFFERENTIAL EQUATIONS

Students study ordinary differential equations and integral transforms. Students solve ordinary differential equations using multiple techniques (including the Laplace transform) and investigate properties of the solutions. Students also construct differential equations as mathematical models to solve application problems. Prerequisite: Completion of MATH 2205.

MATH 2350 4 CREDITS BUSINESS CALCULUS I

Students study calculus through business, economic, and social applications. Successful students acquire knowledge and develop skills that enable them to apply unique modeling approaches to the material throughout the course. This course is non-algebraic in nature. Students development a conceptual understanding of calculus through the use of data and technology applications. A specific calculator is required for this course. See a math instructor for acceptable models. Prerequisite: Completion of MATH 1380, MATH 1400, MATH 1390, or MATH 1401.

MATH 2355 4 CREDITS MATHEMATICAL APPLICATIONS FOR BUSINESS

Students study mathematical applications for business by examining equations and systems of equations. linear programming, matrices, and the mathematics of finance, set theory, probability, and statistics. Students acquire knowledge about and develop skills in solving linear equations and least square regression, matrices, linear programming, finance (including simple and compound interest, inflation and population growth, annuities, and amortization), sets and counting problems, probability and statistics and other selected topics. A specific calculator is required to this course. See a math instructor for acceptable models. Prerequisite: Completion of MATH 1380, MATH 1390, MATH 1400, or MATH 1401.

MATH 2800 3 CREDITS MATHEMATICS MAJOR SEMINAR

This course serves as an introduction for mathematics majors and minors to mathematical investigation and discovery. Successful students demonstrate knowledge of mathematical language; acquire and develop skills to construct and evaluate mathematical conjectures and argument; explain mathematical reasoning through the writing of formal proofs; and apply results to develop further mathematical concepts. Prerequisite: Completion of or concurrent enrollment in MATH 2205.

Medical Coding

MEDC 1500 3 CREDITS BASIC DIAGNOSTIC CODING

Students are introduced to the basic coding guidelines using the International Classification of Diseases (ICD) coding classification system. Students practice the application of diagnosis codes, focusing on accuracy and the clinical information found in the medical record. Ethical coding standards are applied and promoted while students focus on current regulations and guidelines of the National Correct Coding Initiative. Prerequisite: Completion of HLTK 1200 and completion of or concurrent enrollment in HLTK 1210.

MEDC 1550 2 CREDITS ADVANCED DIAGNOSTIC CODING

Students continue to sharpen the skills and knowledge introduced in Basic Diagnostic Coding by practicing higherlevel case scenarios. Students analyze primary and secondary diagnoses and how they relate to reimbursement. Students study and apply modifiers, injury codes and status codes following the current guidelines and regulations. ICD-10 conventions are explored in more depth. Students evaluate ethics in relation to fraud and incorrect coding. Prerequisite: Completion of MEDC 1500.

MEDC 1600 BASIC CPT CODING

3 CREDITS

Students are introduced to the basic coding guidelines of the Current Procedure Terminology (CPT) nomenclature. Students practice the application of CPT/HCPCS codes to validate coding accuracy using clinical information found in the medical record. Students gain a fundamental understanding of the general steps in coding and apply the guidelines of the National Correct Coding Initiative. Prerequisite: Completion of HLTK 1210.

MEDC 1650 2 CREDITS ADVANCED CPT CODING

Students build on the base knowledge learned from Basic CPT Coding. Students link CPT codes and ICD codes using examples from medical records. Analyzing dictation reports, students follow the guidelines for reporting secondary procedures and diagnosis codes. Students add the knowledge of using modifiers and HCPCS codes. Students also review the current regulations as related to coding compliance and discuss major coding errors including fraud. Prerequisite: Completion of MEDC 1600.

MEDC 1700 3 CREDITS REIMBURSEMENT METHODOLOGIES

Students explore health care billing and reimbursement. Students examine the basics of medical insurance and track claims from patient registration through collections, identifying "missing" information and process improvement to avoid gathering incorrect information. Students review claim payments for accuracy and examine the appeals process. Students review the fair debt collection act and apply the principles of the act through the accounts receivable process. Prerequisite: Completion of HIT 1550.

MEDC 1750 3 CREDITS DISEASE PROCESSES IN CODING

This course is the study of common disease processes and the drugs used in their treatment. Students study the description of conditions and diseases of the organ systems including etiology, signs and symptoms, and methods of diagnosis and treatment. Students identify disease entities and describe appropriate diagnostic and treatment modalities. Students examine the action of drugs, including the absorption, distribution, metabolism and excretion of drugs by the body. Prerequisite: Completion of or concurrent enrollment in HLTK 1210.

MEDC 1970 2 CREDITS PROFESSIONAL PRACTICE EXPERIENCEY(CODING)

Students gain real world experience in a virtual health care setting. Students code authentic patient records from a variety of patient types and encounters using a virtual E.H.R. Students experience guest lectures from HIM professionals and real case studies therefore allowing them to gain a better understanding of coding in a facility setting. Prerequisite: Completion of or concurrent enrollment in MEDC 1600.

Microbiology

4 CREDITS MICR 2210 GENERAL MICROBIOLOGY

A study of microscopic organisms. Students compare and contrast microbial structures, categorizing microbes according to their physiological and metabolic properties. Students also examine the ecological role of microbes and utilize microbes to study genetic processes and develop microbial laboratory techniques while utilizing aseptic and basic lab safety procedures. One field trip is required. Typically, this course has three hours of lecture and three hours of laboratory per week. Prerequisite: Completion of BIOL 1010

MICR 2240 4 CREDITS MEDICAL MICROBIOLOGY

In this course designed primarily for allied health and pre-pharmacy majors, students are introduced to microbiology by focusing on the interactions of microorganisms and humans. Students examine important features of microbial cell biology, genetics and the immune system to understand pathogenicity mechanisms of infectious agents, the action of antimicrobial therapies and the selection of antibiotic resistance. Students also discuss communicable diseases affecting public health and compare their transmission. The fundamentals learned in the microbiology lab are applied to safely control, isolate and identify microorganisms. Prerequisite: Successful completion of BIOL 1010, ZOO 2010 or ZOO 2015.

Music

MUSC 0200 CONVOCATION

This course serves as documentation of student attendance at LCCC Music Convocations. A student must be declared a music major and register for this course every semester they are enrolled at LCCC. Convocation will be held each week in the semester, and will include monthly performances and a sophomore recital. May be repeated up to 8 times. Corequisite: Concurrent enrollment in MUSC 1051, MUSC 1052, MUSC 2071 or MUSC 2072.

0 CREDITS

MUSC 1000 3 CREDITS INTRODUCTION TO MUSIC

Students study the basic fundamentals of music, music literature, and composers of all historical periods. Students develop strategies necessary for intelligent listening. This course is open to both music majors and non-music majors.

MUSC 1004 CELTIC ENSEMBLE

This course is open to all instrumentalists and vocalists. Although students primarily focus on the traditional music of Ireland, they also touch on the music of Celtic Europe and the Celtic diaspora, including Brittany, Galicia, Scotland, England, Canada and the United States. Students study the musical history of these regions, as well as the context, style, and ornamentation. Students learn music by ear and arrange and prepare material for a performance at the end of the course.

MUSC 1010 1 CREDIT MUSIC FUNDAMENTALS

In this course, students acquire the basic skills of reading and writing music, including standard music notation, all major and minor key signatures, and scales. Prior knowledge of music theory is not required. The course is open to non-music majors.

3 CREDITS MUSC 1023 MUSIC AND SOUND TECHNOLOGY

Students gain a greater understanding of both sound and music/sound technology through direct observation, analysis, laboratory application, and lecture. Students are introduced to the principles of acoustics and learn how to use theoretical models when working with music technology. Students learn how to utilize sound reinforcement equipment to amplify live performances, record live sounds, and edit and mix recorded sounds with editing software. Students collaborate by helping each other find solutions for various set-up, amplification, recording, and editing challenges. Prerequisite: Completion of MATH 0970 or equivalent placement test score

MUSC 1025 INTRODUCTION TO MUSIC EDUCATION

Students study vocal and instrumental music education and teaching processes in grade levels K-12. Students apply knowledge of classroom management, philosophical approaches to music education, and the various developmental stages of students by designing, writing and implementing lesson plans for the music classroom. Observations and on-site visits of school music programs are required.

3 CREDITS

1 CREDIT MUSC 1030 WRITTEN THEORY I

3 CREDITS

First semester of a four-semester series on the fundamentals of music and written harmony. Students demonstrate an understanding of notation, intervals, major and minor scales, circle of fifths, key signatures, rhythm, major and minor triads in four-part harmony, and cadences. Students apply appropriate principles of harmonization, melody, voicing, and chord connection to part writing four voices and analyze these elements in musical exemplars.

MUSC 1035 1 CREDIT AURAL THEORY I

First semester of a four-semester series on the fundamentals of ear training, sight-singing, and dictation skills. Students demonstrate an understanding of notation, intervals, major and minor scales, key signatures, basic rhythm, and basic melodic sequences. Students apply appropriate principles of transforming sound into notation through the writing of melodic, harmonic, and rhythmic examples from dictation, and the transformation of notation into sound with sight-singing with solfege.

MUSC 1040 3 CREDITS WRITTEN THEORY II

The second semester of a four-semester series on the fundamentals of music and written harmony. Students demonstrate an understanding of the principles of late 18th-centruy harmonic progression, modulation, four-voice composition, Classical period harmony, and forms. Students apply appropriate principles of harmonization, melody, and form to basic musical composition and analyze these elements in musical exemplars. Prerequiste: Completion of MUSC 1030.

MUSC 1045 AURAL THEORY II

1 CREDIT The second semester of a four-semester series on the fundamentals of ear training, sight-singing, and dictation skills. Students demonstrate an understanding of notation, intervals, major and minor scales, key signatures, basic rhythm (including dotted rhythms and syncopation), and based melodic sequences (diatonic melodies including larger leaps). Students apply appropriate principles of transforming sound into notation through the writing of melodic, harmonic, and rhythmic examples from

dictation, and the transformation of notation into sound with sight-singing with solfege. Prerequisite: Completion of MUSC 1035.

1 CREDIT **MUSC 1051** APPLIED MUSIC INSTRUCTION I

Private music lessons in voice, piano, organ, guitar, woodwind, brass, percussion, and string instruments with an approved college instructor. The student pays an additional lesson fee. May be repeated up to 8 times. Instructor approval required.

MUSC 1052 1 CREDIT APPLIED MUSIC INSTRUCTION II

Private music lessons in voice, piano, organ, guitar, woodwind, brass, percussion, and string instruments with an approved college instructor. The student pays an additional lesson fee. May be repeated for up to 8 times. Prerequisite: Completion of MUSC 1051 on the same instrument.

MUSC 1150 GUITAR I

1 CREDIT

This course provides basic instruction in folk and classical techniques on the guitar. Students acquire skills in chord progressions, major scales, strum and pick patterns, note reading, and arpeggio picking. Different styles of music are introduced through class presentations and recordings. Students perform selections in class. Prior music knowledge is unnecessary; however, students must provide their own guitars. May be repeated for up to two times for credit.

MUSC 1290 1 CREDIT ELEMENTARY CLASS PIANO I

The first semester of a four-semester sequence for the beginning piano student. Students develop skills in finger control, hand independence, and pedal technique. Students acquire and demonstrate skill in note reading, interpreting meter signatures and corresponding rhythms found in that meter, simple harmonization of melodies, and sight-reading. Instructor approval required.

MUSC 1295 1 CREDIT ELEMENTARY CLASS PIANO II

The second semester of a foursemester sequence for the beginning piano student. Students continue to develop skills in finger control, hand independence, and pedal technique. Students continue to acquire and demonstrate skill in sight-reading, interpreting meter and rhythms, simple harmonization of melodies using basic chords and prescribed chord progressions, and all major scales. Prerequisite: Completion of MUSC 1290 or equivalent.

MUSC 1380 WIND SYMPHONY

1 CREDIT

In this course, students participate in group instruction and performance on various instruments in an ensemble setting. Students gain an appreciation of wind ensemble music through performing and listening to musical literature, focusing on original works for wind instruments from the 20th century. Some instruments are provided. May be repeated for up to 8 times for credit. Prerequisite: Prior wind, brass, or percussion experience required.

MUSC 1390 JAZZ ENSEMBLE

Students explore the jazz idiom, both through the big-band and combo experiences. Students practice the skills necessary to improvise and to become completely familiar with the jazz style as well as to listen knowledgeably to jazz music. May be repeated for up to 8 times for credit. Jazz training helpful. Prerequisite: Previous instrumental training on saxophone, trumpet, trombone, piano, bass, guitar, or percussion. New students must have instructor approval.

MUSC 1400 1 CREDIT COLLEGIATE CHORALE

Students sing in a choral ensemble. The choir performs a wide variety of choral literature from all periods. Membership is open to anyone. Performances are required. May be repeated for up to 8 times for credit.

MUSC 1408 1 CREDIT MEN'S CHOIR

Students in this ensemble sing four-part choral literature, chosen from all time periods, specifically written for male voices. Membership is open to LCCC students and men in the community. Performances are required. May be repeated for up to 8 times for credit.

MUSC 1410 1 CREDIT VOCAL ENSEMBLE (CANTOREI)

Membership in this select chorus is by audition. Students are exposed to a variety of challenging and educational choral music. Students perform at a highly polished level, sing in at least two languages other than English, and sight sing a new work. This group may be involved in some limited touring within the state and region. May be repeated for up to 8 times for credit. Corequisite: Concurrent enrollment in MUSC 1400.

MUSC 1450 1 CREDIT PERCUSSION ENSEMBLE

Students gain an appreciation of small instrumental chamber ensemble music through performing and listening. This course combines group instruction and performance on similar instruments in an ensemble setting. Students gain an appreciation of small instrumental chamber ensemble music through performing and listening. The musical literature focuses on original works for percussion instruments from various stylistic periods in music history. May be repeated for up to 8 times for credit. Prerequisite: Prior performance experience on a brass instrument and instructor approval.

1 CREDIT

MUSC 1460 BRASS ENSEMBLE

1 CREDIT

Students gain an appreciation of small instrumental chamber ensemble music through performing and listening. This course combines group instruction and performance on similar instruments in an ensemble setting. The music literature focuses on original works for brass instruments from various stylistic periods in music history. May be repeated for up to 8 times for credit. Prerequisite: Prior performance experience on a brass instrument and instructor approval.

MUSC 1470 I CREDIT WOODWIND ENSEMBLE

Students gain an appreciation of small instrumental chamber ensemble music through performing and listening. This course combines group instruction and performance on similar instruments in an ensemble setting. The musical literature focuses on original works for woodwind instruments from various stylistic periods in music history. May be repeated for up to 8 times for credit. Prerequisite: Prior performance experience on a brass instrument and instructor approval.

MUSC 1480 1 CREDIT STRING ENSEMBLE

Students gain an appreciation for small instrumental chamber ensemble music through performing and listening. This course combines group instruction and performance on similar instruments in an ensemble setting. The musical literature focuses on original works for string instruments from various stylistic periods in music history. May be repeated for up to 8 times for credit. Prerequisite: Prior performance experience on a brass instrument and instructor approval.

MUSC 2000 3 CREDITS INTRODUCTION TO CONDUCTING

Students study the basic fundamentals of conducting musical ensembles. Students develop techniques necessary for interpreting music with physical gestures, score reading, and running effective musical rehearsals. Students gain conducting experience by directing ensembles within the class as well as opportunities to direct various LCCC ensembles in actual rehearsal situations. This course is open to both music majors and non-music majors. Prerequisite: Completion of MUSC 1030.

MUSC 2024 WORLD MUSIC

3 CREDITS

Students develop strategies for listening to the sounds of various musical cultures, including Africa, Asia, Indonesia, India, and Eastern Europe, among others. Students analyze the context of musical expressions around the world and interpret the meaning of music through complex networks of signification (i.e. race, ethnicity, socioeconomic identity, religion, etc.).

MUSC 2030 WRITTEN THEORY III

3 CREDITS

The third semester of a four-semester series on the fundamental of music and written harmony. Students demonstrate an understanding of the principles of late 18th-century harmony and forms and early 19th-century harmony and forms, such as altered chords, higher numbered chords, secondary dominants, and compositions in these styles. Students apply appropriate principles of harmonization, melody, and form to basic musical composition and analyze these elements in musical exemplars. Prerequisite: Completion of MUSC 1040.

MUSC 2035 AURAL THEORY III

1 CREDIT

The third semester of a four-semester series on the fundamentals of ear training, sight-singing, and dictation skills. Students demonstrate an understanding of notation, intervals, major and minor scales, key signatures. rhythm (including triplets and syncopation), and melodic sequences (including chromaticism). Students study and notate harmonic structures including all diatonic triads, dominant, and leading-tone seventh chords. Students apply appropriate principles of transforming sound into notation through the writing of melodic, harmonic, and rhythmic examples from dictation, and the transformation of notation into sound with sight-singing with solfege. Prerequisite: Completion of MUSC 1045.

MUSC 2040 WRITTEN THEORY IV

3 CREDITS

The final semester of a four-semester series on the fundamentals of music and written harmony. Students demonstrate an understanding of the principles of late 19th-century impressionism, the music of the 20th century, such as modes, pantriadic technique, quartal harmony, 20th-century rhythm, polychords, pandiatonicism, serial, and 12-tone technique. Students apply appropriate principles of harmonization, melody, and form to basic musical composition and analyze these elements in musical exemplars. Prerequisite: Completion of MUSC 2030.

MUSC 2045 AURAL THEORY IV

The fourth semester of a four-semester series on the fundamentals of ear training, sight-singing, and dictation skills. Students demonstrate an understanding of notation, intervals, major and minor scales, key signatures, rhythm (including triplets, syncopation, and complex meter), and melodic sequences (including chromaticism and 20th-century harmonies). Students study and notate harmonic sequences including diatonic, chromatic, secondary dominants, modulation, and 20th century harmonic language. Students apply appropriate principles of transforming sound into notation through the writing of melodic, harmonic, and rhythmic examples from dictation, and the transformation of notation into sound with sight-singing with solfege. Prerequisite: Completion of MUSC 2035.

1 CREDIT

MUSC 2050 3 CREDITS MUSIC HISTORY SURVEY I

The first in a series of two courses on the history and literature of music from the Middle Ages to the present. Students develop strategies for listening to the sounds of music in Western culture. Students identify the instruments, aesthetic structures, major composers, and typical styles of musical works from the Middle Ages through 18th-century Classicism. Including critical comparison with non-Western and contemporary popular forms of music, students analyze the context, meaning, and historical impact of music in Western society.

MUSC 2055 3 CREDITS MUSIC HISTORY SURVEY II

The second in a series of two courses on the history and literature of music from the Middle Ages to the present. Student develop strategies for listening to the sounds of music in Western culture. Students identify the instruments, aesthetic structures, major composers and typical styles of musical works from the Romantic era through the present. Including critical comparison with non-Western and contemporary popular forms of music, students analyze the context, meaning, and historical impact of music in Western society.

MUSC 2060 1 CREDIT JAZZ IMPROVISATION I

This course provides students with the materials, techniques, and concepts needed for developing basic jazz improvisation skills. Students acquire and apply knowledge about scales, chord structure, common chord progressions, and developing improvisational ideas. Prerequisite: Ability to perform on a musical instrument or voice, including (but not limited to) piano, guitar, bass, trumpet, trombone, and saxophone.

MUSC 2065 1 CREDIT JAZZ IMPROVISATION II

This course provides students with the materials, techniques, and concepts needed for developing intermediate and advanced jazz improvisation skills. Students acquire and apply knowledge about scales, chord structure, common chord progressions, and developing improvisational ideas. Prerequisite: Completion of MUSC 2060.

MUSC 2071 I CREDIT APPLIED MUSIC INSTRUCTION III

Private music lessons in voice, piano, organ, guitar, woodwind, brass, percussion, and string instruments with an approved college instructor. The student pays an additional lesson fee. May be repeated for up to 8 times. Prerequisite: Completion of MUSC 1052 on the same instrument.

MUSC 2072 1 CREDIT APPLIED MUSIC INSTRUCTION IV

Private music lessons in voice, piano, organ, guitar, woodwind, brass, percussion, and string instruments with an approved college instructor. The student pays an additional lesson fee. May be repeated for up to 8 times. Prerequisite: Completion of MUSC 2071.

MUSC 2150 I CREDIT GUITAR II

Students build on fundamentals and review bar chords, major and minor scales, two- and three-part harmony and various arpeggio picking patterns. Melodic development and solo playing will be included. May be repeated for up to two times for credit. Prerequisite: Completion of MUSC 1150.

MUSC 2290 1 CREDIT ELEMENTARY CLASS PIANO III

The third semester of a four-semester sequence for the beginning piano student. Students continue to develop skills in finger control, hand independence, and pedal technique. Students continue to acquire and demonstrate skill in sight-reading (homophonic pieces, score part-reading, and hymnal reading), harmonization of melodies using all diatonic chords or prescribed chord progressions, and all harmonic minor scales. Students also demonstrate skills in transposition, basic accompanying techniques, and singing and playing together. Prerequisite: Completion of MUSC 1295 or successful completion of the final exam requirements for MUSC 1295.

MUSC 2295 1 CREDIT ELEMENTARY CLASS PIANO IV

The fourth semester of a four-semester sequence for the piano student. Students continue to develop skills in finger control, hand independence, and pedal technique. Students continue to acquire and demonstrate skill in sight-reading (homophonic pieces, score part-reading, and hymnal reading), harmonization of melodies using all diatonic chords or prescribed chord progressions, and all major and harmonic minor scales. Students will also demonstrate skills in transposition, basic accompanying techniques, and singing and playing together. All skills will help students prepare for the piano proficiency exam. Prerequisite: Completion of MUSC 2290 or successful completion of the final exam requirements for MUSC 2290.

MUSC 2320 2 CREDITS DICTION FOR SINGERS I

This class teaches the appropriate pronunciation of Italian and German languages for singing purposes. Students study phonetics, the science of speech sounds. Students will learn to apply the appropriate pronunciation of the languages throughout the use of the International Phonetic Alphabet (IPA).

MUSC 2325 2 CREDITS DICTION FOR SINGERS II

Students study phonetics, the science of speech sounds. This class teaches the appropriate pronunciation of English and French languages for singing purposes. Students learn to apply the appropriate pronunciation of the languages throughout the use of the International Phonetic Alphabet (IPA). Prerequisite: Completion of MUSC 2320.

MUSC 2395 PIANO PROFICIENCY

0 CREDITS

Students demonstrate piano proficiency through this course which serves as a final comprehensive exam in piano techniques. The exam focuses on scales, harmonization, sight-reading, transposition, folksong harmonization, accompaniment, prepared patriotic songs, and the correct use of the pedal.

Nursing

NURS 1100 5 CREDITS PROFESSIONAL NURSING CARE IN HEALTH PROMOTION

This course introduces students to the concepts of health promotion, safety, clinical judgment, leadership, patient centeredness, and professionalism. Health promotion includes learning about self-health and health in children, adults, older adults, and the family experiencing a normal pregnancy. Students will value evidence about healthy lifestyle patterns and risk factors for disease and illness, apply growth, and development theory, develop therapeutic relationships, conduct an age appropriate and culturally sensitive health assessment, and promote health using the nursing process and standards of professional nursing. Prerequisite: Completion of COLS 1000, MATH 1400. ENGL 1010 and ZOO 2015. Corequisite: Concurrent enrollment in NURS 1115.

NURS 1115 5 CREDITS PROFESSIONAL NURSING CARE IN HEALTH PROMOTION: CLINICAL ONE This course introduces students to the concepts of health promotion, safety, clinical judgment, leadership, patient centeredness, and professionalism. Health promotion includes learning about self-health and health in children, adults, older adults, and the family experiencing a normal pregnancy. Students will value evidence about health lifestyle patterns and risk factors for disease and illness, apply growth and development theory, develop therapeutic relationships, conduct an age appropriate and culturally sensitive health assessment, and promote health using the nursing process and standards of professional nursing. Prerequisite: Completion of COLS 1000, MATH 1400, ENGL 1010, and ZOO 2015. Corequisite: Concurrent enrollment in NURS 1100.

NURS 1200 5 CREDITS PROFESSIONAL NURSING CARE OF THE PATIENT WITH CHRONIC ILLNESS

This course introduces students to the patient and family with chronic illness using the concepts of health promotion, safety, clinical judgment, leadership, patient-centeredness, and professionalism. Students use caring behaviors, therapeutic communication, and advocacy when providing care to patients with chronic illness across the lifespan. Students identify the roles and values of the members of the interprofessional health care team. The patient and family lived experience is emphasized. Prerequisite: Completion of COLS 1000, MATH 1400, ENGL 1010, ZOO 2015, PSYC 1000, NURS 1100 and NURS 1115. Corequisite: Concurrent enrollment in NURS 1215.

NURS 1215 5 CREDITS PROFESSIONAL NURSING CARE OF THE PATIENT WITH CHRONIC ILLNESS: CLINICAL TWO

This course introduces students to the clinical care of a patient and family with chronic illness using the concepts of health promotion, safety, clinical judgment, leadership, patientcenteredness, and professionalism. Students use caring behaviors, therapeutic communication, and advocacy when providing care to patients with chronic illness across the lifespan. Students identify the roles and values of the members of the interprofessional health care team. The patient and family lived experience is emphasized. Prerequisite: Completion of COLS 1000, MATH 1400, ENGL 1010, ZOO 2015, PSYC 1000, NURS 1100 and NURS 1115. Corequisite: Concurrent enrollment in NURS 1200.

NURS 2300 5 CREDITS PROFESSIONAL NURSING CARE OF THE PATIENT WITH ACUTE ILLNESS

This course introduces students to the patient and family with acute illness using the concepts of health promotion, safety, clinical judgment, leadership, patient centeredness, and professionalism. Students use caring behaviors, therapeutic communication and advocacy when providing care to patients with acute illness across the lifespan. The students facilitate the effectiveness of the interprofessional healthcare team. The patient and family lived experience is emphasized. Prerequisite: Completion of NURS 1200 and NURS 1215. Corequisite: Concurrent enrollment in NURS 2315.

NURS 2315 5 CREDITS PROFESSIONAL NURSING CARE OF THE PATIENT WITH ACUTE ILLNESS: CLINICAL THREE

This course introduces students to providing care for the patient and family with acute illness using the concepts of health promotion, safety, clinical judgment, leadership, patient centeredness, and professionalism. Students use caring behaviors, therapeutic communication and advocacy when providing care to patients with acute illness across the lifespan. The students facilitate the effectiveness of the interprofessional healthcare team. The patient and family lived experience is emphasized. Prerequisite: Completion of NURS 1200 and NURS 1215. Corequisite: Concurrent enrollment in NURS 2300.

5 CREDITS NURS 2400 PROFESSIONAL NURSING CARE OF THE PATIENT WITH **COMPLEX ILLNESS**

This course introduces students to the patient and family with complex illness using the concepts of health promotion, safety, clinical judgment, leadership, patient centeredness and professionalism. This course is focused on the vulnerable patient which could include multisystem acute and chronic disease processes and physiological, mental and socioeconomic factors that put the patient at risk. The patient and family lived experience is emphasized. Prerequisite: Completion of NURS 2300 and NURS 2315. Corequisite: Concurrent enrollment in NURS 2415.

NURS 2415 5 CREDITS PROFESSIONAL NURSING CARE OF THE PATIENT WITH COMPLEX **ILLNESS: CLINICAL FOUR**

This course introduces students to providing care for the patient and family with complex illness using the concepts of health promotion, safety, clinical judgment, leadership, patient centeredness and professionalism. This course is focused on the vulnerable patient which could include multisystem acute and chronic disease processes and physiological, mental and socioeconomic factors that put the patient at risk. The patient and family lived experience is emphasized. Prerequisite: Completion of NURS 2300 and NURS 2315. Corequisite: Concurrent enrollment in NURS 2400.

Nursing Studies

NRST 1610 NURSING I

6 CREDITS

Students acquire introductory knowledge and principles basic to all nursing courses and practice. Students apply the nursing process to the study of the biopsychosocial spiritual individual by addressing oxygenation-circulation, nutrition-metabolic, sensory-security, and self-concept needs. Students also begin to apply theory as related to nursing's core components: professional behaviors, communication, assessment, clinical decision making, caring interventions, teaching and learning, collaboration and managing care. Prerequisite: Admission to the Nursing Program. Corequisitie: Concurrent enrollment in NRST 1710.

NRST 1620 NURSING II

Students enhance their knowledge of the following nursing core components: professional behaviors, communication, assessment, clinical decision making, caring interventions, teaching and learning, collaboration, and managing care and interventions. Students apply the nursing process to the care of the individual with alterations in basic human needs throughout the lifespan. Prerequisite: Completion of NRST 1610 and NRST 1710. Corequisite: Concurrent enrollment in NRST 1720.

NRST 1710 3 CREDITS CLINICAL EXPERIENCE I

Students demonstrate competency in nursing interventions utilized in patient care in both clinical and laboratory settings. Students apply theory to the care of the individual through the beginning use of the nursing process, written care plans and by addressing basic human needs and core components: professional behaviors, communication, assessment, clinical decision making, caring interventions, teaching and learning, collaboration, and managing care. Prerequisite: Admission to the Nursing Program. Corequisite: Concurrent enrollment in NRST 1610.

NRST 1720 **5 CREDITS CLINICAL EXPERIENCE II**

Students refine skills acquired in previous courses regarding the care of the individual throughout the lifespan with common recurring alterations in basic human needs. Utilizing the nursing process, students apply the following nursing core components: professional behaviors, communication, assessment, clinical decision making, caring interventions, teaching and learning, collaboration, and managing care in providing nursing care. Prerequisite: Completion of NRST 1610 and NRST 1710. Corequisite: Concurrent enrollment in NRST 1620.

NRST 1980 2 CREDITS PRACTICAL NURSING **ROLE EXPLORATION**

Students participate in activities designed to facilitate the transition to practical nursing. Students utilize the following nursing core components: professional behaviors, communication, assessment, clinical decision making, caring interventions, teaching and learning, collaboration and managing care in applying theory to practice in the role of the practical nurse. Prerequisite: Completion of NRST 1620 and NRST 1720

6 CREDITS NRST 2630

NURSING III

6 CREDITS

Students build on previously acquired nursing knowledge and skills in applying the nursing process to the care of the individual throughout the lifespan with more complex alterations in basic human needs. Students integrate nursing core components: professional behaviors, communication, assessment, clinical decision making, caring interventions, teaching and learning, collaboration, and managing care into the role of the associate degree nurse. Prerequisite: Completion of NRST 1620 and NRST 1720, or competency in firstlevel program courses. Corequisite: Concurrent enrollment in NRST 2730.

6 CREDITS NRST 2640 NURSING IV

Students integrate knowledge gained from all nursing program courses as the basis for applying advanced nursing theory to the care of the patient and family throughout the lifespan with complex alterations in basic human needs. Students integrate the following nursing core components: professional behaviors, communication, assessment, clinical decision making, caring interventions, teaching and learning, collaboration, and managing care into the role of the associate degree nurse providing health care. Prerequisite: Completion of NRST 2630 and NRST 2730. Corequisite: Concurrent enrollment in NRST 2740.

NRST 2730 **5 CREDITS** CLINICAL EXPERIENCE III

Students demonstrate competency in advanced nursing interventions utilized in providing health care. Students also synthesize knowledge gained from prior and concurrent program courses in applying the nursing process and by demonstrating the following nursing core components: professional behaviors, communication, clinical decision making, caring interventions, teaching and learning, collaboration, and managing care for the individual throughout the lifespan with more complex alterations in basic human needs. Prerequisite: Competency in first-level program courses. Corequisite: Concurrent enrollment in NRST 2630.

NRST 2740 5 CLINICAL EXPERIENCE IV

5 CREDITS

Students demonstrate critical thinking in evidence-based practice when managing and providing nursing care to small groups of patients and families throughout the lifespan with more complex alterations in basic human needs. Students incorporate the following nursing core components: professional behaviors, communication, assessment, clinical decision making, caring interventions, teaching and learning, collaboration, and managing care in beginning the transition from student role to the associate degree nurse. Prerequisite: Completion of NRST 2630 and NRST 2730. Corequisite: Concurrent enrollment in NRST 2640.

Paralegal

LEGL 1500 INTRODUCTION TO PARALEGAL STUDIES

3 CREDITS

Introduction to Paralegal Studies is an introductory study of the American legal system with emphasis on the nature of legal processes and institutions. Students examine the American and Wyoming judicial systems, legal reasoning, ethical standards, and those procedural and substantive aspects of the law pertinent to the paralegal. Paralegal Studies majors are strongly encouraged to have completed or be currently enrolled in ENGL 1010. Prerequisite: Completion of MATH 0970 and ENGL 0810 or equivalent placement test score.

LEGL 1710 3 CREDITS LEGAL RESEARCH AND WRITING I

A study of legal research techniques and methods used in the practice of law, including electronic legal research. The course is designed to develop skills in legal reasoning, identifying and effectively using legal resources, and writing basic legal memoranda. Prerequisites: Completion of LEGL 1500 or enrollment in LEGL 1500 and permission of the program advisor.

LEGL 1720 3 CREDITS LEGAL RESEARCH AND WRITING II

A continuation of LEGL 1710 with emphasis on the advanced application of legal research principles. Topics covered include the preparation of various documents and memoranda and the application of a variety of research skills and sources. Prerequisite: Completion of LEGL 1500 and LEGL 1710 or equivalent or permission of legal assistant advisor.

LEGL 1800 3 CREDITS LAW OFFICE MANAGEMENT

Students acquire skills in managing a law office by developing an understanding of the basic administration, management, and technological aspects of today's firm. Students develop an understanding of law office structures, time and recordkeeping systems, and general office procedures. Students will be exposed to ethical considerations faced by non-lawyer professionals as well as to professional development for the nonlawyer. Prerequisite: Completion of LEGL 1500.

LEGL 2500 3 CREDITS CIVIL PROCEDURE AND LITIGATION

A continuation of LEGL 2550. A study of the litigation process, including the Federal and Wyoming Rules of Civil Procedure. Students acquire skills in performing the functions and duties of a legal assistant in the litigation process, including the drafting of documents, such as pleadings, motions, discovery documents, and trial notebooks. Prerequisites: Completion of LEGL 1500 and LEGL 1710, or permission of instructor.

LEGL 2550 3 CREDITS EVIDENCE AND INVESTIGATION

Students demonstrate skills in interviewing clients and witnesses and locating information necessary when preparing a case for trial. Students apply the basic state and federal rules governing the admissibility of evidence and acquire skills in preparing and handling evidence for courtroom use. Students prepare a variety of pre-trial documents. Paralegal majors must take this course prior to enrolling in LEGL 2500. Because LEGL is a continuation of this course, students are strongly encouraged to take these courses in consecutive semesters. Prerequisite: Completion of LEGL 1500. Corequisite: LEGL 1710, ENGL 1010, or permission of instructor.

LEGL 2560 3 CREDITS PROBATE PRACTICES AND PROCEDURES

Students become familiar with probate and nonprobate assets; with the formation, modification, revocation, execution, and validity of wills; with the laws of intestacy; with the administration and closing of estates. Students also become aware of the various forms, procedures, and tax consequences involved in probating an estate. Prerequisite: Completion of LEGL 1500 or permission of instructor.

LEGL 2570 TORTS

3 CREDITS

A study of the principles behind personal injury settlements and litigation, with an emphasis on Wyoming law. Topics include intentional torts, negligence, and strict liability. Prerequisite: Completion of LEGL 1500 or permission of instructor.

LEGL 2610 3 CREDITS FAMILY LAW

Students develop an awareness of the legal assistant's role in the practice of family law. Students demonstrate an ability to produce documents concerning the formation and dissolution of marriage, property rights of married and unmarried couples, and parentchild relationships (including adoption, custody, and support). Students demonstrate knowledge of the tax consequences, basic legal procedures, and ethical practices involved in the practice of family law. Prerequisite: Completion of LEGL 1500 or permission of instructor.

LEGL 2620 3 CREDITS COURT PROCEDURES AND THE LEGAL SYSTEM

A study of court procedures and substantive law through the examination of court cases and direct observation of court room activities at the county, municipal, state, and federal levels. Students gain an understanding of court procedures and learn about the locations, purposes, operations, and staffing of various courts located in Laramie County. Students also learn about substantive law through readings and by observing what is necessary to prove a case in court. Prerequisites: Completion of LEGL 1500, LEGL 1710, LEGL 1720, or permission of instructor, and completion of 15 credit hours of LEGL coursework.

LEGL 2630 3 CREDITS REAL ESTATE AND PROPERTY LAW

A study of the law of real property and a survey of the more common types of real estate transactions. Students demonstrate the ability to prepare instruments necessary to complete various real estate transactions. Prerequisite: Completion of LEGL 1500 or permission of instructor.

LEGL 2650 3 CREDITS CRIMINAL LAW AND PROCEDURE

Students demonstrate knowledge of statutory and common law crimes, including criminal law theory and the construction and interpretation of criminal law statutes. Students draft motions, prepare orders, and learn to interview criminal clients and to provide other office support necessary in criminal law practice. Prerequisite: Completion of LEGL 1500 or permission of instructor.

LEGL 2670 CONSTITUTIONAL LAW

Students study the basic principles and applications of constitutional law in an historical context. Each section of the course material will focus on four key concepts: limited government, the protection of private property, the promotion of commerce, and individual rights, with an emphasis on individual rights and due process. Students explore the impact of state and federal constitutional requirements on the development of the American legal system and the process by which United States Supreme Court accepts and decides cases. Prerequisite: Completion of LEGL 1500 or permission of the instructor. Successful completion of ENGL 1010 is highly recommended.

LEGL 2680 3 CREDITS ADMINISTRATIVE LAW

A course in which students develop an understanding of the principles of administrative law, administrative remedies, and administrative hearing procedures in various state and federal governmental agencies. Areas studied will include social security, EEOC, workers' compensation, as well as others. The course focuses on several practical problems in areas where legal assistants frequently are employed. Prerequisite: Completion of LEGL 1500 or permission of instructor.

LEGL 2830 3 CREDITS COMPUTER APPLICATIONS IN THE LAW

Students demonstrate an awareness of available materials and demonstrate skills required in working with an automated law practice. Projects in this introductory course include, but are not limited to, the areas of timekeeping and billing, substantive systems, word processing, document composition, litigation control, and legal research. Students also develop skills with WordPerfect software and a variety of spreadsheets. Prerequisites: Completion of LEGL 1500, LEGL 1710, COSC 1200 or equivalent or permission of instructor.

LEGL 2990 3-5 CREDITS PARALEGAL INTERNSHIP

Students demonstrate the ability to apply theoretical knowledge gained in the classroom by interning in a private office, governmental agency, court, or private business which utilizes attorneys. Students participate in any required seminars and produce documents describing and evaluating the internship experience. Prerequisites: Completion of LEGL 1500, LEGL 1710, LEGL 1720, LEGL 2500, and LEGL 2550, and permission of instructor. (S/U grade only.)

^{3 CREDITS} Philosophy

PHIL 1000 3 CREDITS INTRODUCTION TO PHILOSOPHY

Students explore the fundamental academic disciplines in philosophy and their respective issues and theories including world views, metaphysics, epistemology, logic, ethics, and theology. Prerequisites: Completion of ENGL 0810 or equivalent placement test score.

PHIL 1010 3 CREDITS INTRODUCTION TO WORLD MYTHOLOGY

An introductory course focusing on the critical reading and analysis of world mythologies. Successful students will distinguish logos from mythos, and will identify the archetypal symbols and recurring themes in myth in such a way that students can explore themselves in relation to others, to their culture, and to nature itself. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

PHIL 2221 LOGIC

3 CREDITS

Students explore the fundamental critical reasoning skills to be developed and practiced in any field of study. Students acquire knowledge of induction, deduction, and informal fallacies as they occur in everyday rhetoric. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

PHIL 2301 ETHICS

3 CREDITS

Students explore major ethical theories and contemporary moral issues as well as gain an understanding of the importance of critical reasoning in analyzing moral situations and forming ethical judgments. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

PHIL 2311 3 CREDITS INTRODUCTION TO RELIGION

Students explore the basic components of religion and survey the major religions of the world: Judaism, Christianity, Islam, Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Students gain an understanding of the theoretical, practical, and sociological aspects of each religion. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

Physical and Health Education – Health Education

HLED 1006 PERSONAL HEALTH

3 CREDITS

Students recognize a variety of personal health issues including the impact of family history on health. Students identify health risks and describe behaviors that improve overall health and well-being. Students analyze how physical activity and exercise minimize the effects of stress on one's health and apply this to their personal lives.

HLED 1221 2 CREDITS STANDARD FIRST AID AND SAFETY

In this comprehensive program, students are trained to act in emergency situations and recognize and care for life-threatening respiratory or cardiac emergencies. Students learn skills necessary in an emergency to help sustain life and to minimize pain and the consequences of injury or sudden illness until professional medical help arrives. Students are trained in adult and pediatric cardiopulmonary resuscitation (CPR) as well as in the use of an automated electronic defibrillation device.

HLED 2006 I CREDIT HEALTH FOR ELEMENTARY EDUCATORS

Students identify and examine National and State Health Standards and Benchmarks, assessment procedures, health curriculum models/approaches for K-6, and health education lesson plans. Students also explore methodologies to integrate health education into the language arts curriculum. Finally, students discuss current health-related issues facing the elementary-age student, families, and the elementary classroom teacher. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

Physical and Health Education – PE Activities

PEAC 1006 I CREDIT WEIGHT FREE WORKOUT

Students learn and practice weight-free exercises which increase the student's muscular strength, muscular endurance, flexibility, and cardiorespiratory endurance levels.

PEAC 1007 1 CREDIT FITNESS CHALLENGE

Students learn full body workouts consisting of a warm up, speed and agility, cardio intervals, resistance training, plyometrics, core stabilization, and flexibility exercises. Through the workouts, students overall fitness levels will be enhanced.

PEAC 1011 1 AQUATIC CONDITIONING

Students acquire knowledge of fitness components---cardiovascular endurance, flexibility, muscular strength and endurance---and how these components are achieved using water to provide resistance. Students of all swimming abilities are encouraged to take this course.

PEAC 1012 1 CREDIT BEGINNING SWIMMING

Students demonstrate basic swimming components -- water safety, breathing, kicking, and basic strokes of freestyle, backstroke, and breaststroke.

PEAC 1013 1 CREDIT FUNCTIONAL FITNESS

Students increase core strength and conditioning by addressing their cardiorespiratory endurance, stamina, strength, flexibility, power, speed, coordination and agility. Students perform multiple, diverse, and randomized physical challenges. Students develop the basic foundation of physical skills, diet, metabolic conditioning, and weight lifting.

PEAC 1016 SWIMNASTICS

Students acquire knowledge using water workouts to increase and maintain range of motion, flexibility, and strength. Students will, based on their comfort level, perform workouts in both the shallow and deep end of the pool.

PEAC 1023 1 CREDIT HIKING

An introductory course teaching the fundamental skills of hiking. The student recognizes safety and seasonal considerations associated with hiking. Student practices hiking preparedeness, leadership, wilderness safety, leaveno-trace principles, and basic survival. The student is challenged to assess, analyze and solve a variety of situations with limited resources. Students hike a variety of trails in Laramie County and surrounding areas.

PEAC 1026 ZUMBA FITNESS

and flexibility.

1 CREDIT

1 CREDIT

Students demonstrate the basic steps involved for different types of dance such as Reggaeton, Cumbia, Salsa, and Merengue. Through the use of dance, students improve their cardiovascular endurance, coordination, muscle tone

PEAC 1030 I CREDIT DANCE AEROBICS

Students explore a variety of skills and techniques used to perform aerobic (cardiovascular) activities. Students use aerobic and hip hop dance principles as a basis for improving their cardiovascular endurance.

1 CREDIT PEAC 1031 I CREDIT WESTERN AND SOCIAL DANCE

This course provides instruction in dance steps which relate to contemporary western and social dance. Students apply elementary principles and techniques in western and social dance and develop the ability to perform basic movement patterns and analyze music as it relates to western and social dance.

PEAC 1037 1 CREDIT FITNESS WALKING

Students learn the proper techniques, equipment, and health benefits associated with fitness walking. Student learn various types of walking routines and develop an individualized walking program.

PEAC 1044 1 CREDIT BEGINNING TAE KWON DO

Students learn the Korean martial art of Tae Kwon Do. Students learn selfdiscipline, self-confidence, weight control, respect, courtesy, and the art of self-defense. Students demonstrate skills of blocking, punching, kicking, one-step sparring, free sparring, and self-defense stances. Students test for a yellow belt in Tae Kwon Do.

PEAC 1046 I CREDIT INTRODUCTION TO PILATES

Students demonstrate the principles of Pilates, which are concentration, control, center breath, fluidity, and precision. Students develop functional fitness, which allows students to more efficiently participate in daily lifetime activities.

PEAC 1047 I CREDIT INTRODUCTION TO SPINNING

Spinning is a comprehensive indoor cycling class. Students demonstrate proper basic riding form and techniques as well as knowledge of nutrition and muscle mechanics. In addition, students develop cycling skills and improve muscle tone, cardiovascular conditioning, and strength through a series of performance drills.

PEAC 1050 BEGINNING TENNIS

Students acquire knowledge of the rules, terminology, and skills for the sport of tennis. By successfully completing the course, the student develops the fundamental skills to continue with tennis as a lifetime activity.

1 CREDIT

1 CREDIT

PEAC 1250 ARCHERY

Students apply the basic techniques of indoor and outdoor target archery emphasizing the care and use of equipment, range safety, stance and shooting techniques, scoring and competition. Students practice and develop appropriate motor skills to allow them to successfully participate and utilize archery as a lifetime leisure activity.

PEAC 1254 1 CREDIT BEGINNING FENCING

Students apply knowledge of the rules, terminology and skills for the sport of Fencing, particularly the foil. After completing the course, the students will have learned the fundamental skills to continue with Fencing as a lifetime activity or as a competitive sport.

PEAC 1255 1 CREDIT BEGINNING GOLF

Students learn golf rules, etiquette, terminology, and playing strategies. They practice and develop appropriate skills to allow them to successfully participate in golf as a lifetime leisure activity.

PEAC 1257 1 CREDIT BEGINNING RACQUETBALL

Students apply basic skills, rules, and strategies of racquetball. Students practice and develop appropriate skills to allow them to successfully participate in racquetball as a lifetime activity.

PEAC 1260 1 CREDIT BEGINNING VOLLEYBALL

Students apply knowledge of rules, terminology and play strategies for volleyball. Students also practice and develop appropriate motor skills to allow them to successfully participate in volleyball as a lifetime activity.

PEAC 1263 1 CREDIT BEGINNING BASKETBALL

Students apply rules, terminology, and play strategies of basketball. Students also practice and develop appropriate motor skills to allow them to successfully participate in basketball as a lifetime leisure activity.

PEAC 1272 I CREDIT CARDIOVASCULAR CONDITIONING (ROTC)

This course provides instruction on the U.S. Army's physical fitness program. Students acquire the knowledge to take and pass the Army's physical fitness test by completing two minutes of pushups, two minutes of sit ups, and completing a two-mile run in the allotted time. Students also gain valuable knowledge on proper nutrition and appropriate methods for stretching before and after a workout session.

PEAC 1273 1 CREDIT HEAVY RESISTANCE CONDITIONING

Students demonstrate proper lifting and spotting techniques for the strength and conditioning of the body's major muscle groups. Students develop, implement, and modify a resistance training program geared to their specific goals.

205

PEAC 1287 ROCK CLIMBING

1 CREDIT

Students acquire skills in safety, knot tying, rope handling, climbing, belaying techniques, climbing signals, bouldering, and rappelling. Students begin with indoor climbs and progress to outdoor climbs at Vedauwoo Natural Historic Site.

PEAC 1290 1 CREDIT THERAPEUTIC RELAXATION

Students learn the basic principles and techniques of massage, stress reduction, lifestyle relaxation, breathing techniques, and stress management.

PEAC 1294 HATHA YOGA

1 CREDIT

Students explore the benefits of combining physical activity (beneficial movements and postures) with mental discipline (body awareness and regulated breathing). Students achieve, according to their abilities and commitment, greater flexibility, strength, better balance, deeper relaxation, regulated breathing, and heightened body awareness.

PEAC 1295 1 CREDIT INDIVIDUALIZED EXERCISE PROGRAMS

Students examine their current level of fitness and investigate the relationships between wellness and an active lifestyle and its impact on their overall health. Students develop, implement, and modify a program geared to their specific fitness and wellness needs.

PEAC 1298 SNOWSHOEING

1 CREDIT

Students demonstrate selection of proper clothing, footwear, and snowshoe equipment. Students demonstrate safety considerations associated with snowshoeing and practice minimum impact principles as well as prevention and treatment of cold weather related injuries such as frostbite, hypothermia and dehydration. Additionally, students are introduced to map reading as well as land navigation.

PEAC 1301 INTRODUCTION TO BALLROOM DANCE

and social dance.

1 CREDIT

Students apply elementary principles and techniques in social ballroom dance patterns. Students develop the ability to perform basic movement patterns and analyzing music as it relates to ballroom

PEAC 1560 BEGINNING ORIENTEERING

Students learn various types of orienteering and proper orienteering techniques such as compass skills, map reading, and cross country travel. Students apply basic fitness skills while practicing the fundamentals of map and compass utilization with an emphasis on topographic map interpretation and field navigation techniques. In addition to the standard orienteering compass, students use the Global Positioning System to navigate.

1 CREDIT

PEAC 2011 1 CREDIT INTERMEDIATE SWIMMING

Students demonstrate advanced skills with four swim strokes -- front crawl, backstroke, breaststroke, and butterfly -- and improve their skills with treading water, swimming underwater, turns and dives. Students recognize the cardiovascular benefits of swimming. Prerequisite: Completion of PEAC 1012 or instructor approval.

PEAC 2086 1 CREDIT CAMPING ADVENTURES

The ultimate goal of the course is to develop sophisticated, knowledgeable campers who are capable of outdoor camping, for any reasonable length of time, with the confidence to safely enjoy the experience. Emphasis is on personal fitness, prevention and treatment of common camping injuries, and setting up and enjoying an environmentally safe camp. Students plan and organize a twonight/three-day camping trip.

PEAC 2087 1 CREDIT RAFTING ADVENTURES I

A beginning/intermediate-level course introducing students to basic river running. After being introduced to basic river-running techniques and safety issues, students complete a two-day, combination float/white water rafting trip.

PEAC 2098 I CREDIT INTERMEDIATE SNOWSHOEING

This is the second course in a two-course series. Students build upon skills learned in PEAC 1298, Snowshoeing including selection of proper clothing, footwear, and snowshoe equipment. Students learn safety considerations associated with snowshoeing and practice minimum impact principles as well as prevention and treatment of cold weather related injuries such as frostbite, hypothermia and dehydration. Additional students use backcountry navigation techniques. Prerequisite: Completion of PEAC 1098 or instructor approval.

Physical and Health Education – Professional PE

PEPR 1004 3 CREDIT FOUNDATIONS OF PHYSICAL AND HEALTH EDUCATION

This course is designed for prospective school-based K-12 physical education teachers. Students become knowledgeable about five primary areas: history and philosophy of education and schooling in America; the effect of life experiences on preservice teachers; American social and cultural trends on the practice of physical education; academic credibility in physical education; and innovation and change in physical education. These content areas provide students with contemporary vision/philosophy of the field of physical education teacher education. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

PEPR 1470 1 CREDIT PETE PRACTICUM I

Students work in conjunction with Exercise Science instructors to provide physical education activities to students from 6-17 years of age in a variety of settings. In this level 1 practicum, students assist in various ways within the Physical Education setting. Students also observe physical education teachers in action at public and private schools in the community. This is the first of a three practicum sequence. Instructor consent required.

PEPR 2050 2 CREDITS PREVENTION AND CARE OF ATHLETIC INJURIES

Students recognize how to prevent and treat specific sport injuries resulting from activities in the home, recreational, intramural, and sport settings. Students identify preventative measures and proper treatment for specific sport injuries. Students demonstrate proper taping and wrapping techniques.

PEPR 2100 3 CREDITS THEORY OF COACHING

Comprehensive introduction to the art and science of coaching. Students examine coaching philosophy and the principles of coaching as digested from the fields of sport psychology, sport pedagogy, sport physiology, sport medicine, and sport management. Students discuss coaching issues and principles of developing and maintaining an athletic program. Students examine leadership approaches, organization and practice techniques utilized in coaching sports. Students also explore the challenges and expectations of the coach in the community as well as conditioning for injury prevention.

PEPR 2110 3 CREDITS SCIENTIFIC FOUNDATIONS OF COACHING

This introductory course is designed to provide a basic understanding of the foundation of coaching. Students explore the scientific basis for coaching sports and the process fo developing competent student-athletes. Students develop an individual coaching philosophy. Students apply scientific training in the psychological physiological, pedagogical, and managerial basis of sport coaching to demonstrate understanding of the "Athletes First, Winning Second" philosophy.

PEPR 2470 1 PETE PRACTICUM II

1 CREDIT

Students work with Exercise Science instructors to provide physical education activities to students from 6-17 years of age in a variety of settings. In this level 2 practicum, students, with the guidance of Exercise Science faculty, plan and be the lead instructor for several lessons within the Physical Education setting. This is the second of a three practicum sequence. Prerequisite: Completion of PEPR 1470.

PEPR 2475 PETE PRACTICUM III

1 CREDIT

Students work with Exercise Science instructors to provide physical education activities to students from 6-17 years of age in a variety of settings. In this level 3 practicum, students, with the guidance of Exercise Science faculty, plan and be the lead instructor for two units of study within the Physical Education setting. Prerequisite: Completion of PEPR 2470.

Physical Therapist Assistant

PTAT 1600 3 CREDITS INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT

Students examine the field of Physical Therapy (PT) from the development of the profession to current clinical practices. Students discuss the role of the PTA, ethical and legal issues that guide practice, psychosocial aspects of healthcare, specialty areas of PT practice, components of the plan of care, and patient care essentials. Students practice oral and written communication skills including essential documentation skills. Prerequisite: Admission into the Physical Therapist Assistant program.

PTAT 1650 4 CREDITS THERAPEUTIC PROCEDURES I

Students develop knowledge and skills essential to the practice of physical therapy including assessment and utilization of assistive devices, body mechanics, functional training, mobility, pain, posture, positioning and transfer techniques, range of motion, vital signs, wheelchairs, and other therapeutic procedures. Students practice edema management techniques including compression wrapping, infection control procedures, massage techniques and taping techniques. Prerequisite: Completion of PTAT 2030.

PTAT 1660 3 CREDITS THERAPEUTIC PROCEDURES II

Students examine the principles and practices of physical therapy including assessment and measurement of pain and inflammation as it relates to the use of modalities. The students also assess and apply a variety of modalities including: thermal agents, cryotherapy, ultrasound, infrared, electrical stimulation (TENS, FES, IFC, EMG, and Biofeedback), diathermy, mechanical traction, manual traction, iontophoresis, and phonophoresis. Prerequisite: Completion of PTAT 1720.

PTAT 1720 4 CREDITS THERAPEUTIC EXERCISE

Students explore the theory, principles, and implementation of therapeutic exercise programs for a variety of patient populations. In addition, they apply specific strategies for stretching (sustained hold, contract/relax, strain/ counterstrain), strengthening (isometrics, isotonics, open/closed chain, resistive exercises, weight training, aquatics) and balance and coordination activities. Students also examine theories of motor control and motor learning, and implement these theories into clinical practice. Lab activities will involve therapeutic exercise programs set up, joint mobilizations, and Proprioceptive Neuromuscular Facilitation (PNF) techniques and implementation in the clinical setting. Prerequisite: Completion of PTAT 2030.

PTAT 1740 CARDIAC REHABILITATION

Students explore an in-depth description of cardiopulmonary rehabilitation and develop skills to implement cardiac protocols, assess and monitor common cardiopulmonary conditions, identify cardiac precautions for a variety of patient populations, and perform postural drainage techniques. Students design fitness and wellness programs for healthy and diseased individuals. Prerequisite: Completion of PTAT 2030.

1 CREDIT

PTAT 1800 NEUROLOGY

Students examine multiple pathologies of the nervous system including stroke, demyelinating diseases, spinal cord injury, Parkinson's Disease, cerebral palsy, and traumatic brain injuries (TBI). In addition, students contrast normal structures and function of the nervous system, including motor control centers of the brain and spinal tracts, to a nervous system with specific impairments. Students develop skills to assess, treat, and manage the neurologically impaired patient based on clinical signs and symptoms of neurological disorders. Prerequisite: Completion of PTAT 2970.

PTAT 1820 4 CREDITS ORTHOPEDICS

Students identify and assess common orthopedic conditions and analyze findings to implement intervention strategies and develop comprehensive treatment plans under the direction and supervision of a physical therapist. Students participate in case studies common to orthopedic conditions including amputations. Students learn to progress physical therapy plans of care for a variety of orthopedic and postsurgical conditions. Prerequisite: Completion of PTAT 1720.

PTAT 1840 1 CREDIT SPECIALTY REHABILITATION

Students explore an in-depth overview of specialty areas of physical therapy practice including burns, chronic pain, geriatrics, lymphedema, pediatrics, vestibular rehabilitation, women's health, and wound care. Students utilize assessment tools specific to these areas of specialty to develop intervention strategies for improvements in function and to minimize disability. Prerequisite: Completion of PTAT 2970.

PTAT 2030 4 CREDITS FUNCTIONAL KINESIOLOGY FOR THE PHYSICAL THERAPIST ASSISTANT

Students explore the application of human anatomy to the study of human movement patterns. Students identify normal versus abnormal movement with the use of posture analysis, gait analysis, functional movement and sport activities. Students apply information demonstrated for data collection including manual muscle testing, goniometry measurements, and palpation techniques to the application in the physical therapy field. Prerequisite: Admission into the Physical Therapist Assistant program.

3 CREDITS

PTAT 2970 7 CREDITS PTA CLINICAL PRACTICUM I

This course provides students with selected experiences to provide practical clinical experience under the direct supervision of a physical therapist/ physical therapist assistant and instruction of LCCC's clinical coordinator. The clinical experience gives students the opportunity to correlate didactic course work with clinical skills. Students are required to complete the 280-hour clinical at an affiliate site that provides physical therapy services. Prerequisite: Completion of PTAT 1720.

PTAT 2971 7 CREDITS PTA CLINICAL PRACTICUM II

This course provides students with selected experiences to provide practical clinical experience under the direct supervision of a physical therapist/ physical therapist assistant and instruction of LCCC's clinical coordinator, to meet entry-level PTA requirements. This clinical experience gives students the opportunity to correlate didactic coursework with clinical skills. Students are required to complete the 280-hour clinical at an affiliate site that provides physical therapy services. Prerequisite: Completion of PTAT 2970.

Physics

PHYS 1050 4 CREDITS CONCEPTS OF PHYSICS

In this introductory course, students become familiar with the science of matter interacting with energy in a variety of fields. Students demonstrate their competencies in the scientific method, properties of matter, mechanics, heat, sound, light, electricity and magnetism, radiation, and atomic and nuclear interactions. This course is recommended for students in the paramedical sciences- medical terminology, radiographic technology, sonography, exercise science, applied technology, and other non-science majors requiring a lab science course. Student receiving credit for PHYS 1110 cannot receive credit for PHYS 1050 or PHYS 1310. Prerequisite: Completion of MATH 0980 or MATH 0990 or placement at MATH LEVEL II (or higher) and completion of ENGL 0810 (or placement at a READING LEVEL III (or higher) or at a WRITING LEVEL II (or higher)).

PHYS 1080 4 CREDITS PRINCIPLES OF TECHNOLOGY

Students develop necessary skills and knowledge in the principles of technology as applied to the scientific concepts and laws of force, work, rate, resistance, energy, and power. Students gain an understanding and working knowledge of these principles through practical application experiences. The course is specifically designed for students, both science and non-science majors, who plan to pursue careers as technicians. Cross-listed as ENTK 1080. Prerequisite: Completion of ENGL 0810 and MATH 1000 or higher, or equivalent placement test scores.

PHYS 1090 4 CREDITS FUNDAMENTALS OF THE PHYSICAL UNIVERSE

Students apply fundamental principles of chemistry and physics to real life situations. The course is designed primarily for elementary education majors. Prerequisite: Completion of MATH 1000 or equivalent placement test score.

PHYS 1110 GENERAL PHYSICS I

This is the first course of a two-semester sequence in elementary college-level physics with a laboratory component. Upon successful completion of this course, students gain an understanding of mechanics, vector mechanics for static bodies, dynamic of linear and circular motion, and energy transfer methods. This algebra-based course is intended primarily for pre-professional health science (premedical, predental, preoptometry, prephysical therapy, etc.) and biology students. Typically offered every other year. Students receiving credit for PHYS 1110 cannot receive credit for PHYS 1050 or PHYS 1310. Prerequisite: Completion of MATH 1405 or MATH 1450, or equivalent placement test scores.

PHYS 1120 GENERAL PHYSICS II

4 CREDITS

4 CREDITS

A second-semester course in elementary college-level physics that includes a laboratory component. Students learn wave phenomena, electricity, and the fundamental structure of matter. This course is not offered every year. Students receiving credit for PHYS 1120 cannot receive credit for PHYS 1050 or PHYS 1320. Prerequisite: Completion of PHYS 1110 or instructor approval.

PHYS 1310 COLLEGE PHYSICS I

A calculus-based introductory physics course with a laboratory component intended primarily for engineering, physical science, computer sciences, and mathematics students. Students acquire a working knowledge of vector mechanics, dynamics of linear and circular motion, energy and momentum techniques, and mechanical waves. Typically offered spring semester only. Students receiving credit for PHYS 1310 cannot receive credit for PHYS 1050 or PHYS 1110. Prerequisite: Completion of MATH 2200. Corequisite: Concurrent enrollment in MATH 2205, or equivalent placement test score.

4 CREDITS

PHYS 1320 4 CREDITS COLLEGE PHYSICS II

This is the second course of a twosemester sequence in calculus-based physics with a laboratory component. Students gain knowledge and apply problem solving skills in electricity, magnetism, and thermodynamics. This course is intended primarily for engineering, physical science, computer sciences, and mathematics students. Typically offered in fall semester only. Students receiving credit for PHYS 1320 cannot receive credit for PHYS 1050 or PHYS 1120. Prerequisite: Completion of PHYS 1310 or concurrent enrollment in MATH 2210

Political Science

POLS 1000 3 CREDITS AMERICAN AND WYOMING GOVERNMENT

An introductory course in the organization and structure of the national and state governments. Students explore the three branches of government (legislative, executive, and judicial) and learn to think critically about them. They also evaluate themes in federalism, civil liberties, civil rights, public opinion, political parties, campaigns and elections, and selected public policy topics. This course meets the state statutory requirement for instruction in the United States and Wyoming constitutions. Prerequisites: Completion of ENGL 0810 or concurrent enrollment in ENGL 1010.

POLS 1005 I CREDIT COMPUTER APPLICATIONS IN POLITICAL SCIENCE

Students examine issues related to data production and analysis in areas related to government and politics including the legislative, executive and judicial branches, public opinion and voting behavior. Prior knowledge of computers is not necessary. Corequisite: Concurrent enrollment in POLS 1000.

POLS 1009 INTRODUCTORY EXPERIENTIAL CIVICS

Students focus on practical experiences in government while learning values associated with citizenship. This course is taught to participants of Wyoming Boy's State. This course does not satisfy the state statutory requirement for instruction in the United States and Wyoming.

POLS 1100 1 CREDIT WYOMING GOVERNMENT

Students examine the constitution and government of Wyoming. Students review the major principles and institutions of the U.S. government. This course is designed for students who have earned credit for American Government or U.S. History at an out-of-state college or by advanced placement but have not fulfilled the Wyoming Constitution statutory requirement. Prerequisite: Completion of ENGL 0810 or concurrent enrollment in ENGL 1010.

POLS 1200 3 CREDITS NON-WESTERN POLITICAL CULTURES

Students examine the distinctive political institutions and practices that characterize select non-western political cultures. Case studies from Asia and Africa are emphasized in this course. Completion of ENGL 1010 or equivalent is strongly recommended. Prerequisite: Completion of POLS 1000 or consent of instructor.

POLS 2000 3 CREDITS CURRENT ISSUES IN AMERICAN GOVERNMENT

Students investigate select political topics and issues by exploring key public policy problems, the policy-making process, and policy choices. Students are expected to keep abreast of both domestic and global political events and to apply basic political science concepts to analyze them. A variety of American political ideologies re also examined. Prerequisite: Completion of POLS 1000 or instructor approval.

POLS 2070 3 CREDITS POLITICS OF STATE AND LOCAL GOVERNMENT

Students analyze recent developments in American state and local politics. They are encouraged to explore how the policy-making process at the citycounty level interacts with politics at the state level. Students research specific Wyoming political issues. Because many political science instructors require research papers, ENGL 1010 or its equivalent is strongly recommended. Prerequisite: Completion of POLS 1000.

3 CREDITS POLS 2075 1 CREDIT WYOMING LEGISLATIVE PROCESS

Students are expected to gain knowledge about and an understanding of the political and procedural processes employed by Wyoming's legislature. Utilizing role-playing methods, students learn legislative procedures, leadership functions, and lobbying techniques.

3 CREDITS

POLS 2128 TERRORISM

Students complete an historical overview of terrorism and formulate answers to the questions: What is terrorism? Who or what perpetrates terror? What are the motives and intentions of terrorists? Students develop a vocabulary and conceptual toolkit to understand terrorism domestically and internationally. Students examine political and religious fundamentalism, some of the cultural actors who played key roles in current movements, and the effects of these issues on individuals They explore how social scientific tools can be used to understand conflict. Finally, students consider America's war on terrorism and world politics. Prerequisite: Completion of POLS 1000 or instructor approval. There is a substantial writing component, completion of ENGL 1010 is highly recommended.

POLS 2300 3 CREDITS WORLD POLITICS IN THE POST-COLD WAR ERA

Students become knowledgeable about changes that have taken place since the end of the Cold War in terms of the major world powers, global and regional power balances, patterns of conflict and cooperation, and the structure of the world system. Focuses on what these changes portend for the future. Prerequisite: Completion of ENGL 1010 (or equivalent placement test score) and POLS 1000.

POLS 2310 3 CREDITS INTRODUCTION TO INTERNATIONAL RELATIONS

An analysis of the political relations of nations emphasizing methods of explaining and interpreting their behavior. With contemporary problems serving as illustrations, students critically evaluate topics in war and peace, international political economy, and the evolving world order. Because many political science instructors require research papers, ENGL 1010 or its equivalent is strongly recommended. Prerequisite: Completion of POLS 1000 or instructor approval.

POLS 2330 3 CREDITS ENVIRONMENTAL ETHICS

Students focus on environmental issues that occur locally, nationally, and globally, and on the various ethical, philosophical, and intellectual traditions that influence environmental policy-making. Because this course has a substantial written component, ENGL 1010 is strongly recommended. Prerequisite: Completion of POLS 1000.

POLS 2410 3 CREDITS INTRODUCTION TO PUBLIC ADMINISTRATION

Students learn to analyze the principles, methods and practices involved in administering the public sector. Students gain knowledge about government finance, budgeting, organizational theory, personnel practices, human behavior, government and computers, and the responsiveness of governmental administrators to the public. Because many political science instructors require research papers, ENGL 1010 or its equivalent is strongly recommended. Prerequisite: Completion of POLS 1000.

POLS 2430 3 CREDITS PARTIES, INTEREST GROUPS, AND ELECTIONS

A course focusing on the nature and function of different political organizations in the American political system and how those organizations influence electoral processes and behavior. Successful students demonstrate an understanding of the theory of political parties, interest groups and elections; knowledge of the origin and history of political parties, interest groups and elections, both in the United States and around the world; an understanding of relevant constitutional, political and institutional factors; and knowledge of how political parties. interest groups and elections affect their lives. Prerequisite: Completion of POLS 1000 and ENGL 1010.

POLS 2450 3 CREDITS POLITICS AND MEDIA

A course focusing on how government regulates media and on how media covers current events, governmental institutions and electoral processes. Successful students demonstrate knowledge of relevant constitutional, political and institutional factors and of historical trends that have affected the government-media nexus; a comprehension of relevant legal and regulatory linkages; and knowledge of how media affects their understanding of social issues and government in general. Prerequisite: Successful completion of POLS 1000 and ENGL 1010.

POLS 2460 INTRODUCTION TO POLITICAL PHILOSOPHY

A history of Western political thought from Plato to the present. Students learn to critically examine such topics as freedom and authority, popular sovereignty, justice, and the nature and functions of government. Because many political science instructors require research papers, ENGL 1010 or its equivalent is strongly recommended. Prerequisite: Completion of POLS 1000 or consent of instructor.

POLS 2470 1-4 CREDITS GOVERNMENT INTERNSHIP I

The political science internship program is designed to integrate political experiences with academic knowledge. The student is expected to participate in specific assignments, observe activities in the area of interest, and relate the information and experiences gained in a written report. Credit can be earned in any of four areas: legislature, lobbying, campaigns, or public service. A student may receive one to four hours credit depending on the amount of time given to an assignment. Because many political science instructors require research papers, ENGL 1010 or its equivalent is strongly recommended. Prerequisite: Completion of POLS 1000.

POLS 2495 1 CREDIT WORKSHOP: LEGISLATIVE PROCESS

In this five-week course, students will gain knowledge and understanding of the political process in Wyoming's legislature. Utilizing role-playing methods, students will learn legislative procedures, leadership functions, and lobbying techniques.

Portuguese

PORT 1010 4 CREDITS FIRST YEAR PORTUGUESE I

In this introductory course, students incorporate basic grammatical structures into the context of conversation, composition, and reading in order to communicate about themselves. Students also gain an understanding of the Portuguese-speaking culture.

PORT 1020 4 CREDITS FIRST YEAR PORTUGUESE II

In this continuation of beginning Portuguese, students increase their grammatical, conversational, compositional, and reading skills in order to communicate in real-life situations in the Portuguese-speaking world. Prerequisite: Completion of PORT 1010 or equivalent.

^{3 CREDITS} Process Technology

PTEC 1500 2 CREDITS INTRODUCTION TO PROCESS TECHNOLOGY

Students explore the field of Process Operations at an introductory level and examine the roles and responsibilities of Process Technicians. Students discover the work environment, the equipment and systems operated, and practice fundamental workforce success skills. Instructor consent required.

4 CREDITS

PTEC 1510 SAFETY, HEALTH AND THE ENVIRONMENT

Students explore the history of industrial accidents and other impactful incidences. Students complete content required to receive an OSHA 10 certification and receive training in H2S, Confined Space and Lock Out Tag Out. Students also examine safety, health, and environmental issues and analyze the skills needed for communication of good safety habits and safe work practices. Instructor consent required.

PTEC 1550 1 CREDIT FOUNDATIONS OF QUALITY

Students define quality improvement and trace the re-emergence of quality in the United States. Students examine several philosophies of quality including Deming's, Juran's, Crosby's, and other models that positively affect workplace effectiveness. Students explain the purpose, benefits, policies, and procedures that must be in place to receive ISO 9000 certification. Prerequisite: Completion of PTEC 1500 or instructor consent required.

PTEC 1600 4 CREDITS PROCESS TECHNOLOGY I: EQUIPMENT

Students explore Process Industry equipment and its related functionality. Students examine and analyze the equipment's purpose, components, operation, and the Process Technician's role in operating and troubleshooting various types of equipment. Prerequisite: Completion of PTEC 1500 or instructor consent required.

PTEC 1605 4 CREDITS PROCESS TECHNOLOGY II: SYSTEMS

Students examine various water and gas systems, material storage and blending, refrigeration systems, steam and distribution systems, reaction systems, separation systems, extraction, distillation, dehydration, filtration, and control systems. Prerequisite: Completion of PTEC 1500 or instructor consent required.

Psychology

PSYC 1000 GENERAL PSYCHOLOGY

Students employ concepts in the field of psychology as they apply to: development of behavior; physiological mechanisms of behavior; perception; motivation and emotion; learning; intelligence; individuality and personality; and mental health. Prerequisite: Completion of or concurrent enrollment in ENGL 1010.

PSYC 1004 3 CREDITS THEORIES AND PSYCHOLOGY OF TERRORISM

Students review modern sociological, psychological, and criminological theories that show relevance to terrorism of the 21st century. Beginning with the theories of political violence, students provide an objective overview of theories, concepts, causal factors, and models. Students review various theoretical explanations of terrorism and terrorist acts, including a number of subcultural and personality factors, and explore the implications of these theories for the professions of homeland security and psychology. Prerequisites: Completion of PSYC 1000 and ENGL 1010.

PSYC 1100 ORGANIZATIONAL HUMAN RELATIONS

3 CREDITS

3 CREDITS

An introduction to the practice of using systematic knowledge from psychology to understand individual human behavior within organizations. Topics such as motivation, leadership, power, quality of work life, and communication offer insight into the accomplishment of organizational and personal goals. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

PSYC 2000 4 CREDITS RESEARCH PSYCHOLOGICAL METHODS

In this course students use fundamental scientific methods in psychology. Students acquire and employ research strategies ranging from observational to experimental. Students demonstrate the ability to design topic proposals, conduct basic research, gather data, perform statistical analyses, interpret results, critique published research, read and write in scientific style, and use the American Psychological Association format. Prerequisite: Completion of PSYC 1000 and STAT 2050 or STAT 2060 or STAT 2070.

PSYC 2050 3 CREDITS INTRODUCTORY COUNSELING/ CLINICAL THEORIES

Students review the development of psychotherapy, study psychological concepts basic to the therapeutic process, and gain an understanding of the major models and principles of psychotherapy. Prerequisite: Completion of PSYC 1000 and ENGL 1010.

PSYC 2080 3 CREDITS PSYCHOBIOLOGY

This course is designed as a general introduction to the biological bases of behavior. Students learn the structural and functional properties of the human nervous system, although comparisons to other animals will be made. Students relate in detail healthy and impaired brain function to behavior. Topics include neural transmission, nervous system organization, sensation, perception, sleep, learning, memory, language, emotion, thirst, hunger cognition, movement, drug effects on behavior, consciousness, psychological disorders, and brain disorders. Prerequisite: Completion of BIOL 1003 or BIOL 1010 and PSYC 1000.

PSYC 2090 3 CREDITS PSYCHOLOGY OF RELIGION

Students examine the relationship between religion and human behavior, including theories of religion, the history of the psychology of religion, stages of religion development, religious experience and conversion, and religion and well being. Prerequisite: Completion of PSYC 1000 and ENGL 1010.

PSYC 2210 3 CREDITS DRUGS AND BEHAVIOR

Students gain an understanding how psychoactive substances affect behavior, including both psychotherapeutic agents and drugs with abuse potential. Students demonstrate awareness of basic brain chemistry and the effects of psychoactive substances on brain functioning. Students explore behavioral, social, historical, and medical aspects of each major class of psychoactive substances. Prerequisite: Completion of PSYC 1000 and ENGL 1010, or instructor approval.

PSYC 2300 3 CREDITS DEVELOPMENTAL PSYCHOLOGY

Students gain knowledge in the development and behavior of children from conception through adolescence with emphasis on the major roles played by maturation and learning. Development theory, research findings, and applications to current issues in child psychology are addressed. Prerequisite: Completion of PSYC 1000 and ENGL 1010, or instructor approval.

PSYC 2310 2 CREDITS EXCEPTIONAL CHILDREN

Students gain knowledge of behaviors, mental processes, and development patterns of atypical children--the physically handicapped, the gifted, the mentally retarded. The study of children with neurological and psychological disturbances will be included. Prerequisite: Completion of PSYC 1000, PSYC 2300, and ENGL 1010, or consent of the instructor.

PSYC 2330 3 CREDITS PSYCHOLOGY OF ADJUSTMENT

Students examine the common problems of adjustment with an emphasis on understanding the psychological principles and social factors that bear on mental health. Prerequisite: Completion of PSYC 1000 and ENGL 1010, or instructor approval.

PSYC 2340 3 CREDITS ABNORMAL PSYCHOLOGY

This course provides a general overview of abnormal behavior, emphasizing types, etiology and treatment methods. Students demonstrate an understanding and are capable of describing and discussing facts, principles, and concepts that are basic to a scientific understanding of mental disorders. Students demonstrate an understanding of the behavioral, biological, cognitive, genetic, and social contributions and aspects of mental disorders as well as the psychological and psychopharmacological treatments that have been shown to be effective for the specific mental disorders. Prerequisite: Completion of PSYC 1000 and ENGL 1010.

PSYC 2380 3 CREDITS SOCIAL PSYCHOLOGY

Students demonstrate an understanding of general theories and concepts of social psychology. In addition, students demonstrate the ability to apply the theories in the analysis of a specific issue or social setting. Topics include research techniques, social perception, social influence, social relations, and application. The entering student should have a solid understanding of basic concepts of psychology (PSYC 1000) as well as good writing skills (ENGL 1010). Prerequisite: Completion of PSYC 1000 and ENGL 1010, or instructor approval.

PSYC 2395 1 CREDIT SOPHOMORE SEMINAR

A course for psychology majors who are in or near their final semester and have taken at least nine semester hours of psychology. Students reflect upon major competencies developed over their course of study at LCCC and create a portfolio reflective of their studies. Students present their work to an audience of their peers and instructors. Prerequisite: Completion of ENGL 1010, completion of nine semester hours of psychology, or instructor approval.

PSYC 2400 3 CREDITS CONTEMPORARY SOCIAL ISSUES

In a seminar format, students gain new perspectives on contemporary issues important to the field of psychology. The emphasis is on individual investigations and class discussions. Prerequisite: Completion of PSYC 1000 or equivalent.

Radiology Technology

RDTK 1503 4 CREDITS INTRODUCTION TO RADIOGRAPHY

An introductory course covering the history of radiography, radiographic and general medical terminology; introductory radiographic equipment, radiation protection; and abdomen, chest, and upper-extremity positioning. Students become knowledgeable about ethical and legal issues and basic radiology safety. During the last half of the semester, students begin clinical rotations and by semester end, competency and proficiency in chest, abdomen, and upper extremity radiography are achieved. Prerequisites: Acceptance into the Radiography program, reading placement test score at Level III, demonstrated competency to enter into ENGL 1010, and MATH 1000 or MATH 1400 or equivalent placement test score.

RDTK 1520 I CREDIT RADIOGRAPHIC PATIENT SKILLS

An introduction to patient care skills used in the radiography field. Students demonstrate skills in communicating, evaluating, protecting, and providing physical care for the patient while in the radiology department. This course fulfills a course requirement of the Radiography Program. Prerequisite: Acceptance into the program.

RDTK 1540 3 CREDITS RADIATION PHYSICS

This algebra-based course is designed to provide students with the basic physical principles needed to successfully function in the radiologic and imaging sciences. Students apply principles and laws that govern the SI system of measurement, matter, energy, basic mechanics, wave properties, electricity, magnetism, the electromagnetic spectrum, radiation, and atomic interactions. Three hours of lecture per week. Cross-listed as HLTK 1540. Prerequisite: Completion of ENGL 0810 and MATH 0980, or equivalent placement test scores.

RDTK 1583 3 CREDITS RADIOGRAPHIC PROCEDURES I

A continuation of RDTK 1503. This course is designed to introduce the student to the anatomy and positioning of additional radiographic examinations. Specifically, the student learns and develops positioning skills for the shoulder girdle, lower extremity, pelvis, entire spine, sternum, ribs, mammography, portables, trauma, and pediatric radiography. The student also demonstrates competency in the anatomy, positioning, and radiographic demonstration of the gastrointestinal (alimentary canal) system, the genitourinary system, the biliary system, and the male/female reproductive system. Students complete I.V. training and identify and describe the characteristics of various contrast media. radiologic pharmaceuticals, contrast reactions, and the responsibilities of the radiographer in such situations. Prerequisite: Completion of RDTK 1503.

RDTK 1584 RADIOGRAPHIC LAB I

A course to be taken concurrently with RDTK 1583, which allows the simulated application of the principles learned in RDTK 1583 and film critique. The student radiographer becomes proficient at exposing, developing, and critiquing radiographs of the shoulder, lower extremity, pelvis, entire spine, sternum, and ribs in the campus lab. Students also perform gastrointestinal, genitourinary, and biliary procedures in a competent manner through simulated applications. Prerequisite: Completion of RDTK 1503. Corequisite: Concurrent enrollment in RDTK 1583.

1 CREDIT

RDTK 1590 4 CREDITS CLINICAL EDUCATION I

This course provides clinical experience in the radiology department and is to be taken during the Spring I semester. Students refine positioning and critique skills learned in RDTK 1503, RDTK 1583, and RDTK 1584. Under supervision in the clinical setting, students will be able to competently perform routine diagnostic imaging of the chest, abdomen, extremities, and spines. Students will be expected to pass a competency-based imaging test at the end of the semester. Prerequisites: Completion of RDTK 1503.

RDTK 1610 3 CREDITS RADIOGRAPHIC IMAGING I

In this course, students outline the physical theories of X-ray production and the atomic interactions which take place during the radiologic image acquisition process. Students analyze radiographic images and calculate the effects that various technical factors, equipment, accessory devices, and receptor systems have upon radiographic image qualities and patient dose. Prerequisite: Completion of RDTK 1503. Corequisite: Concurrent enrollment in RDTK 1583, RDTK 1584, and RDTK 1611.

RDTK 1611 1 CREDIT RADIOGRAPHIC IMAGING LAB I

A course to be taken concurrently with RDTK 1610. Through laboratory experiences, students actively demonstrate and experiment with the effects of various technical factors, accessories, and receptor systems on radiographic image qualities. Students learn how to use the equipment and measuring devices available in the energized lab, evaluate collected data, and apply the concepts covered in RDTK 1610. Prerequisite: Completion of RDTK 1503. Corequisite: Concurrent enrollment in RDTK 1610.

RDTK 1620 RADIATION BIOLOGY AND PROTECTION

Students investigate the types and sources of radiation, outlining radiation's biological effects on atoms, cells, and human populations at various doses and delivery methods. Students describe the United States governmental regulations regarding radiation and practice effective radiation protection and measurement methods for patients and occupational personnel while in a medical setting. Prerequisite: Acceptance into the radiography program.

3 CREDITS

RDTK 1683 3 CREDITS RADIOGRAPHIC POSITIONING II

Students analyze and perform routine procedures of bone densitometry (DEXA), routine contrast media fluoroscopy examinations, and C-arm use in surgical and non-surgical settings. Students safely administer contrast media for routine procedures such as arthrography, myelography, and angiography. Prerequisites: Completion of RDTK 1583 and RDTK 1584.

RDTK 1684 I CREDIT RADIOGRAPHIC LAB II

A course to be taken concurrently with RDTK 1683. Upon successful completion of this course, students are able to perform routine and special fluoroscopic exams such as anthrography, myelography, and angiography, and operate a C-arm fluoroscopic unit in both a surgical and departmental setting in a competent manner through simulated applications. Prerequisite: Completion of RDTK 1583 and RDTK 1584. Corequisite: Concurrent enrollment in RDTK 1683.

RDTK 1713 4 CREDITS CLINICAL EDUCATION II

This is a clinical experience in the radiology department. The course is to be taken during Summer Session I. Students refine positioning skills previously learned and positioning learned in RDTK 1683. Under supervision in the clinical setting, the student will be able to competently perform routine diagnostic imaging of extremity, spines, chest, and abdominal work. In addition, 20 hours of shift work after 4 p.m. or on weekends is required. The student will be expected to pass a competency-based imaging test at the end of the semester. Prerequisite: Completion of RDTK 1503.

RDTK 2510 8 CREDITS CLINICAL EDUCATION III

This is a clinical experience course in the radiology environment. The course is to be taken during Fall II. Students refine skills learned previously, including patient skills, implementing new technical skills, further building their practical experience in fluoroscopy diagnostic studies and introducing skull work. Students demonstrate competency in gastrointestinal, urinary, trauma, and portable work. Prerequisite: Completion of RDTK 1713.

RDTK 2583 3 CREDITS RADIOGRAPHIC POSITIONING III

This course covers anatomy and positioning of the cranium and facial bones as well as basic cross-sectional anatomy of the cranium. Students demonstrate proficiency in and knowledge of skull radiography through didactic and competency testing. Prerequisites: Completion of RDTK 1683 and RDTK 1684.

RDTK 2584 I CREDIT RADIOGRAPHIC LAB III

This lab course is to be taken concurrently with RDTK 2583 and affords the student the opportunity to expose and critique skull radiographs in the radiographic laboratory. The student radiographer positions, exposes, and critiques skull procedures as well as identifies basic cross-sectional anatomy of the head. Prerequisite: Completion of RDTK 1683 and RDTK 1684. Corequisite: Concurrent enrollment in RDTK 2583.

RDTK 2603 2 CREDITS SURVEY OF TECHNICAL SPECIALTIES

Students examine current and developing imaging and/or therapeutic technologies such as nuclear medicine, radiation therapy, ultrasonography, and MRI with special emphasis on CT exam performance. Students have the opportunity to apply this knowledge to Clinical Education IV and Clinical Education V. Prerequisite: Completion of RDTK 2583 and RDTK 2584.

RDTK 2613 7 CREDITS CLINICAL EDUCATION IV

A course to be taken during Spring II semester. Students practice all general radiographic and fluoroscopic procedures with emphasis on advanced fluoroscopic and skull techniques. Under supervision students will be applying technical knowledge learned in the classroom lab. Students will be expected to pass a competency-based imaging test at the end of the semester. Students demonstrate identified skills needed by a fully functional radiography status and completion of RDTK 2510.

RDTK 2623 3 CREDITS RADIOGRAPHIC EQUIPMENT, DIGITAL IMAGING AND QUALITY ASSURANCE

In this course, students develop skills conducting quality assurance tests, artifact analysis, troubleshooting imaging problems, and standardizing numerous exposure variables. Students describe the components and function of fluoroscopic imaging equipment and digital imaging equipment used in contemporary radiology departments and review basic electrical circuity with special emphasis on the circuits of X-ray equipment. Prerequisite: Completion of RDTK 1610 and RDTK 1611.

RDTK 2624 RADIOGRAPHIC LAB IV

1 CREDIT

A course to be taken concurrently with RDTK 2623. Students gain experience using fluoroscopic and digital imaging equipment and analyzing the resulting images. Students also conduct routine equipment quality control tests used in the maintenance and testing of radiographic equipment, analyze radiographs for artifacts, and problem solve through various laboratory experiments. Prerequisite: Completion of RDTK 1610 and RDTK 1611. Corequisite: Concurrent enrollment in RDTK 2623.

RDTK 2630 1 CREDIT RADIOGRAPHIC PATHOLOGY

Students survey the radiographic demonstration of pathology for all of the major human body systems. Students evaluate radiographs and develop radiographic case studies within the scope of practice of a radiographer and as they relate to the medical diagnostic process. Students evaluate patient histories and conditions, altering appropriate technical factors and exam protocols as appropriate. Prerequisite: Completion of RDTK 2583 and RDTK 2584.

6 RDTK 2713 CLINICAL EDUCATION V

This course, which provides clinical experience in the radiology environment, is to be taken in Summer Session II. Students will be evaluated in all areas covered in Clinical Education IV, plus determination of correct technique. and ability to adapt and innovate under varied conditions. Students also may study mammography, ultrasonography, nuclear medicine, radiation therapy, computerized tomography, or other specialized fields of personal interest during a special rotation in one of these imaging modalities. Upon completion of these clinical hours, the student will be able to perform all required duties of an entry-level radiographer. The student will be expected to pass a competency-based imaging test at the end of the semester. Prerequisite: Completion of RDTK 2613.

RDTK 2900 4 CREDITS RADIOGRAPHY SEMINAR

Students prepare for successful completion of the American Registry of Radiologic Technologists' national certifying examination by completing a comprehensive review of all prior courses in the radiography curriculum. Students develop and refine the analytical and test-taking skills necessary for passing the national certifying examination in Radiography. Students complete personal research and participate in group activities and discussions to synthesize knowledge, attitudes, and skills in professional radiographic practice. (Students are required to complete a minimum of two computerized Mock Registry Sessions as part of the course. Time to be arranged with instructor.) Prerequisite: Completion of RDTK 2623 and RDTK 2624.

RDTK 2950 3 CREDITS COMPUTED TOMOGRAPHY REGISTRY PREPARATION FOR TECHNOLOGISTS A course preparing registered radiologic technologists for the American Registry of Radiologic Technologists national certifying examination for Computed Tomography (CT). Students complete a comprehensive review of radiation physics and are introduced to elements that will be included in the examination. such as CT instrumentation and image production, radiation safety and dosimetry, patient communication and contrast administration principles, and medical CT protocols for musculoskeletal, trunk, and neurological examinations. Enrollment qualification: Students must be registered in radiography (or registry-eligible) by the American Registry of Radiologic Technologists (ARRT).

^{3 CREDITS} Religious Studies

RELI 2080 HOLOCAUST

3 CREDITS

Students learn the background of European anti-Semitism, the rise of the Nazi Party, the origins of the Second World War, and the events that led to the destruction of European Jewry. Students trace those events and perceptions that allowed the Holocaust to emerge, particularly the development of racial anti-Semitism and religious anti-Judaism. Students explore Christian perspectives and actions, including the behavior and teachings of the church, its leaders and lay members during the Holocaust. Students explore the religious motivations for the extraordinary courage displayed by Christians who risked their lives to save Jews. Students assess the politics behind the Holocaust and how World War II affected Jews throughout Europe. Cross-listed as HIST 2080 Holocaust. Prerequisite: Completion of ENGL 0810 or placement into ENGL 1010, completion of HIST 1120, or instructor consent.

RELI 2110 3 CREDITS INTRODUCTION TO THE OLD TESTAMENT

A historical, archaeological, and literary survey of the Old Testament and its surrounding environment. During the course, students acquire a knowledge of the process and development of the Old Testament with its history, cultural environment, and literary development. Cross-listed as HIST 1130. Prerequisite: Completion of ENGL 0810 or placement into ENGL 1010, or concurrent enrollment in ENGL 1010.

RELI 2150 3 CREDITS NEW TESTAMENT SURVEY

An introduction to the historical, religious, and political setting of the Near East from Alexander the Great to the end of second century C.E. The class will investigate Judaism and Christianity in the Roman World. The New Testament will be viewed from within the context of the Greco-Roman civilization in which the early Christians lived. Cross-listed as HIST 1135. Prerequisite: Completion of ENGL 0810, or completion of or concurrent enrollment in ENGL 1010.

RELI 2225 3 CREDITS HISTORY OF CHRISTIANITY

Students study the history of Christianity from its origin through the early modern era. Students analyze church history in the context of general western history. Students evaluate the development of Christian belief and practice. Cross-listed as HIST 2225. Prerequisite: Completion of ENGL 0810.

RELI 2320 HISTORY OF ISLAM

3 CREDITS

Students survey the history and philosophy of the Islamic religion. Students acquire knowledge about and gain an understanding of Islamic history, Islamic principles and practices, Islamic law, Islamic relationships to other religions, and Islam in the context of the modern world. Cross-listed as HIST 2320.

Sheetmetal Apprentice

3 CREDITS SMAP 1910 SHEETMETAL APPRENTICE I

Provide students with the job skills necessary to enter, remain or advance as a member of the local sheetmetal workforce.

SMAP 1920 3 CREDITS SHEETMETAL APPRENTICE II

Provide students with the job skills necessary to enter, remain or advance as a member of the local sheetmetal workforce.

SMAP 1930 **3 CREDITS** SHEETMETAL APPRENTICE III

Provide students with the job skills necessary to enter, remain or advance as a member of the local sheetmetal workforce.

SMAP 1940 3 CREDITS SHEETMETAL APPRENTICE IV

Provide students with the job skills necessary to enter, remain or advance as a member of the local sheetmetal workforce.

SMAP 1950 3 CREDITS SHEETMETAL APPRENTICE V

Provide students with the job skills necessary to enter, remain or advance as a member of the local sheetmetal workforce.

Social Work

SOWK 2000

3 CREDITS INTRODUCTION TO SOCIAL WORK Students are introduced to the field of

social work by examining the history, mission, values, and activities of social work practice. The course focuses on how social workers interact with a diverse client population and contribute to solving social problem. The knowledge and value base of the profession will also be examined. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

Sociology

SOC 1000 **3 CREDITS** SOCIOLOGICAL PRINCIPLES

An introductory course in sociology in which students demonstrate an understanding of the basic principles involved in interpersonal relationships, social group behavior, and institutional structures ranging from small groups, networks, and families to bureaucracies, social stratification, and urban living.

SOC 1080 **3 CREDITS** INTRODUCTION TO WOMEN'S STUDIES

An introduction to the key issues in women's studies. Students examine women's participation in, and relationship to, institutions of society such as family and school, as well as processes and activities such as work, art, literature and politics in historical and cross-cultural analysis. Cross-listed as HUMN 1080. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

SOC 1150 SOCIOLOGY OF SPORT

Students examine sports in relationship to the social institutions of politics, economics, and religion. They also consider contemporary issues, including racial and gender inequality and controversies over violence and drugs. Students will be able to recognize that sports are but a microcosm of society as a whole.

3 CREDITS

3 CREDITS SOC 2120 FUNDAMENTALS OF AGING AND HUMAN DEVELOPMENT

This course is designed to introduce students to the field of gerontology and examine the concept that aging is a lifelong process which involves the interrelationship between an individual and the environment. Upon successful completion of this course, the student should be able to identify, explain, compare, and contrast the major physical, psychological social, and environmental forces that influence an individual in later life. General Psychology or Introduction to Sociology is recommended. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

SOC 2400 **3 CREDITS** CRIMINOLOGY

An introductory overview of criminal behavior and its impact on the criminal justice system. Students discover theories of criminal behavior, examination and analysis of statistics on crime, explanations of crime causation, and the relationship between crime and the criminal justice process. Cross-listed as CRMJ 2400. Prerequisite: Completion of CRMJ 2120 or SOC 1000, or instructor approval.

SOC 2410 **3 CREDITS IUVENILE DELINQUENCY**

Students demonstrate an understanding of the causes of juvenile problems and analysis of theories and techniques of treatment with consideration for both potential and actual offenders. State and national juvenile correctional systems are investigated in class and in the field.

Spanish

SPAN 1010 4 CREDITS FIRST YEAR SPANISH I

Students develop basic speaking. listening, reading and writing skills in the Spanish language and explore cultural aspects of the Spanish-speaking world.

SPAN 1020 4 CREDITS FIRST YEAR SPANISH II

Students continue their development of basic speaking, listening, reading and writing skills in the target language and explore cultural aspects of the Spanishspeaking world. Prerequisite: Completion of SPAN 1010 or equivalent course.

SPAN 1071 3 CREDITS INTENSIVE SPANISH ABROAD CONVERSATION

Students improve skills in Spanish oral proficiency by participating in a threeweek intensive Spanish course abroad. Students take part in class at a private language school. Students develop an understanding of the host country's culture through living with a local family for the duration of the program; visits to local museums, churches, markets, and other cultural historical sites; and travel outside of the host city during two of the three weekends spent in the host country. Students are required to use their oral linguistic skills by participating in volunteer programs at area orphanages, hospitals, and schools during the week. Students enrolling in this course are required to participate in four monthly informative meetings prior to their study abroad. Prerequisite: Completion of SPAN 1020.

SPAN 2030 4 CREDITS SECOND YEAR SPANISH I

In this intermediate-level Spanish course students refine their conversation skills and integrate intermediate level grammatical structures into conversations and compositions. Students are exposed to Spanish literature and develop more advanced writing skills in Spanish. Prerequisite: Completion of SPAN 1020 or equivalent.

4 CREDITS SPAN 2040 SECOND YEAR SPANISH II

In this continuation of Spanish, students improve their self-expression skills in conversation as well as their reading comprehension. Students practice usage of the language through composition, oral presentations, and grammar review. Prerequisite: SPAN 2030 or equivalent 3rd semester course.

SPAN 2070 3 CREDITS INTENSIVE SPANISH ABROAD

Students develop skills in speaking, reading, and writing Spanish by participating in a three-week intensive Spanish course/program abroad. As part of the program, students take part in a small class at a private language school. Students also develop an understanding of the host country's culture through living with a local family for the duration of the program; visits to local museums, churches, markets, and other cultural and historical sites; and travel outside of the host city during two of the three weekends spent in the host country. In addition, students may be requested to participate in volunteer programs at area orphanages, hospitals, and schools during the week. Furthermore, students participate in two weekends of planned group travel outside the host city for further cultural enhancement. Students enrolling in this course participate in four monthly informative meetings prior to their study abroad. Besides tuition students pay fees which include their round trip airfare, room and board with local family, classes, local tours, and other activities to the hose academic institution and/or other participating travel agencies. A travel waiver and other documents will be required. LCCC provides a faculty escort during the length of the program. Note: This may vary from year to year according to the country where the program takes place. More information will be given during the first meeting. Students must abide by the study abroad short term policy. Prerequisite: Completion of SPAN 2030 or instructor approval.

SPAN 2140 3 CREDITS INTRODUCTION TO SPANISH LITERATURE IN SPANISH

This course introduces Hispanic literature. Students analyze major literary types and elements of criticism. Prerequisites: SPAN 2030 or equivalent 3rd semester course. STAMP or other equivalent placements scores might be used to place students in this level course. Note: STAMP scores do not grant credit for previous courses.

Speech – Pathology and Audiology

SPPA 1100 4 CREDITS AMERICAN SIGN LANGUAGE I

An introductory course presenting basic syntactic knowledge, vocabulary, and conversational skills in American Sign Language (ASL). Students use the direct experience method (using ASL with no voice) to enhance language acquisition. Students also explore vital aspects of the deaf culture and community and the concept of deafness as a cultural minority. Prerequisite: Completion of ENGL 0810. SPPA 1110 AMERICAN SIGN LANCH

AMERICAN SIGN LANGUAGE II A continuation of American Sign Language I, in which the direct experience method (ASL with no voice) is again used to enhance language acquisition. Successful students demonstrate increased syntactic knowledge, vocabulary, and conversational skills in ASL. Successful students also expand their understanding of Deaf culture and community and the concept of Deafness as a cultural minority. Prerequisite: Completion of SPPA 1100 or instructor approval.

4 CREDITS

SPPA 21004 CREDITSAMERICAN SIGN LANGUAGE III

A course in which students build ASL fluency while demonstrating their increased sign language vocabulary and practicing their conversational and storytelling skills. They also demonstrate improved receptive and expressive skills, begin to explore interpreting skills, and experience Deaf culture through interaction with the Deaf community. Prerequisite: Completion of SPPA 1110 with a grade of B or better, or instructor approval.

SPPA 2110 2 CREDITS SIGN LANGUAGE PRACTICAL APPLICATIONS

A course in which students use deaf simulation exercises and storytelling to apply skills acquired in previous sign language courses. Students improve spelling and signing expression and recognition, understand the dynamics of deaf conversations and culture, and express themselves clearly. Prerequisite: Completion of SPPA 1100 or instructor approval.

Statistics

STAT 2010 4 CREDITS STATISTICAL CONCEPTS--BUSINESS

This course involves a study of statistical concepts used in business applications. Students identify types of data and their appropriate descriptive and inferential statistics; calculate and interpret descriptive measures for data sets; explore the role of probability distributions in statistical inference; construct confidence intervals; conduct and interpret one-group and two-group hypothesis tests; apply the appropriate statistical technique to solve various business applications; and use statistical computer software. Prerequisite: Completion of MATH 1400 or MATH 1380 or equivalent placement test scores for MATH 1405 and ENGL 1010.

STAT 2050 4 CREDITS FUNDAMENTALS OF STATISTICS

This course involves a study of statistical concepts used in biological sciences. Students identify types of data and their appropriate descriptive and inferential statistics; calculate and interpret descriptive measures for datasets; explore the role of probability distributions in statistical inference; construct confidence intervals; conduct and interpret one-group and two-group hypothesis tests; apply the appropriate statistical technique to solve various bioscience applications; and use statistical computer software. Credit cannot be earned in more than one of the following courses: STAT 2010, STAT 2050, and STAT 2070. Prerequisite: Completion of MATH 1400, MATH 1401, MATH 1380 or MATH 1390, and ENGL 1010 or equivalent placement test score.

STAT 2060 4 CREDITS INTEGRATED STATISTICS STATWAY II

Students explore statistical concepts and methods with an emphasis on data analysis. Students analyze and interpret statistical studies that includes data collection, graphical and numerical descriptive statistics, correlation, simple linear regression, basic concepts of probability, confidence intervals and hypothesis tests for means and proportions, chi-square tests, and ANOVA. Application problems will be taken from such fields as business, economics, medicine, engineering, education, psychology and sociology. STAT 2060 is the second and final course in the Statway sequence. This sequence is recommended to students who are planning to transfer and continue further studies in humanities, liberal arts, and social science. Prerequisite: Completion of MATH 0960.

STAT 2070 4 CREDITS INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES

This course involves a study of statistical concepts used in social science applications. Students identify types of data and their appropriate descriptive and inferential statistics; calculate and interpret descriptive measures for data sets; explore the role of probability distributions in statistical inference; construct confidence intervals; conduct and interpret one-group and two-group hypothesis tests; apply the appropriate statistical technique to solve various social science applications; and use statistical computer software. Prerequisite: Completion of MATH 1000 or MATH 1010 or MATH 1380 or MATH 1400 or equivalent placement test score for MATH 1400, or instructor approval, and completion of or concurrent enrollment in ENGL 1010.

Surgical Technology

SURG 1500 7 CREDITS CENTRAL STERILE PROCESSING

This course is designed to provide the didactic content and lab experience to meet the standards of the Sterile Processing Technician profession. Students learn the fundamentals of central processing including supplies, services, and distribution of hospital instrumentation, supplies, and equipment. Students learn aseptic techniques, patient care concepts, and theories and practices of central services departments. Students demonstrate cleaning, decontamination, and disinfection of instrumentation and equipment, preparation and packaging, sterilization process, sterile storage and inventory management, documentation and record maintenance which are integral skills of the Sterile Processing Technician. Corequisite: Concurrent enrollment in SURG 1501.

SURG 1501 CENTRAL STERILE PROCESSING CLINICAL

Students demonstrate expertise in ten areas that include general cleaning, wrapping packaging, assemble instrument/procedure trays, sterilization, storage (clean and sterile), patient care equipment, case carts, linen folding, and distribution. Students complete 405 hours of hands-on experience in Central Processing. Corequisite: Concurrent enrollment in SURG 1500.

9 CREDITS

SURG 1600 3 CREDITS INTRODUCTION TO SURGICAL TECHNOLOGY

This course is designed as a hybrid course that introduces students to the profession of surgical technology. Students acquire knowledge of professional requirements and expectations, scope of practice, the surgical team, hospital and other health care delivery systems, the physical environment of surgery, hazards and safety practices, ethical and legal aspects, risk management and liability, credentialing, and professional organizations. In addition, students gain an understanding of the various roles for surgical technologists and specific tasks required to deliver surgical patient care before, during, and after a surgical procedure. Students learn safe surgical practice. Students attain competence in aseptic technique, sterilization and disinfection, surgical equipment, instruments, and supplies. Students apply these concepts to surgical case management. Students will be required to meet one day a week on campus, as part of the hybrid course. Prerequisite: Acceptance into the surgical technology program.

SURG 16104 CREDITSSURGICAL TECHNOLOGY THEORY

Students learn safe surgical practice. Students attain competence in aseptic technique, sterilization and disinfection, surgical equipment, instruments, and supplies. Students apply these concepts to surgical case management. Prerequisite: Acceptance into the surgical technology program.

SURG 1620 3 CREDITS SURGICAL TECHNOLOGY SKILLS LAB I

Students practice entry-level surgical technology skills such as scrubbing, gowning, and gloving, aseptic technique, instrument identification, preparation of the sterile field, safe sharps handling, procedure steps anticipation, and professional behaviors. Students also develop critical thinking competence in aseptic practice by identifying analyzing, and correcting errors in sterile technique. Prerequisite: Acceptance into the Surgical Technology program.

SURG 1630 I CREDIT SURGICAL TECHNOLOGY SKILLS LAB II

Students practice and develop intermediate and advanced level surgical technology skills with an emphasis on critical thinking competence in aseptic practice, surgical specialty instrumentation, and advanced anticipation skills. Prerequisite: Completion of SURG 1610. Corequisite: Concurrent enrollment in SURG 1750, SURG 2750 and SURG 1850.

SURG 1685 2 CREDITS SURGICAL PHARMACOLOGY

Students gain information necessary for safe medication practice in surgery. Students attain competence in the metric system, medication calculations, fundamental concepts of pharmacology, medication identification and handling, medications used in surgery and at the surgical site, and aspects of anesthesia. Prerequisite: Acceptance into the Surgical Technology program.

SURG 1750 4 CREDITS SURGICAL PROCEDURES I

Students gain knowledge and skill in the theoretical aspects of surgical procedures pertinent to initial clinical experiences. Students identify anatomy, physiology, pathophysiology, diagnostic tests, equipment, instruments, supplies, procedural steps, and postoperative patient care concepts for surgical procedures in general, gastrointestinal, obstetrics, gynecology, genitourinary, ophthalmology, and orthopedics. Prerequisite: Completion of SURG 1600, SURG 1620 and SURG 1685.

SURG 1850 5 CREDITS SURGICAL TECHNOLOGY CLINICAL I

Students correlate theory to practice in an actual surgical setting. Students apply previously learned foundational information and hands-on skills as they perform in the first scrub role in assigned surgical procedures under the supervision of clinical site preceptors. An emphasis is placed on developing competence in basic surgical procedures. Students rotate through various surgical specialties at multiple clinical sites. Prerequisite: Completion of SURG 1600, SURG 1620 and SURG 1685

SURG 2750 4 CREDITS SURGICAL PROCEDURES II

Students gain knowledge and skill in the theoretical aspects of surgical procedures pertinent to advanced clinical experiences. Students identify anatomy, physiology, pathophysiology, diagnostic tests, equipment, instruments, supplies, procedural steps, and postoperative patient care concepts for surgical procedures in otorhinolaryngology, peripheral, vascular, cardiovascular, thoracic, and neurosurgery. Prerequisite: Completion of SURG 1750.

SURG 2810 I CREDIT SURGICAL TECHNOLOGY CLINICAL SYNTHESIS I

Students assess and analyze the clinical experience. Students maintain accurate documentation of case experiences, research and present case studies, and prepare for the certification examination. Prerequisite: Completion of SURG 1600, SURG 1620 and SURG 1685. Corequisite: Concurrent enrollment in SURG 1850.

SURG 2850 7 CREDITS SURGICAL TECHNOLOGY CLINICAL II

Students continue to correlate theory to practice in an actual surgical setting. Students apply previously learned foundational information and hands-on skills as they perform in the first scrub role in more complex surgical procedures under the supervision of clinical site preceptors. An emphasis is placed on competence in more complicated surgical procedures as available. Students continue to rotate through various surgical specialties at multiple clinical sites. Students meet with LCCC instructors during clinical site visits. Prerequisite: Completion of SURG 2750 and SURG 2810. Corequisite: Concurrent enrollment in SURG 2895.

SURG 2895 SURGICAL TECHNOLOGY CLINICAL SYNTHESIS II

Students continue assessment and analysis of the clinical experience with an emphasis on advanced practice specialties. Students maintain accurate documentation of case experiences, research and present case studies, and prepare for the certification examination. Prerequisite: Completion of SURG 2750 and SURG 2810. Concurrent enrollment in SURG 2850.

Theater

THEA 1000 3 CREDITS INTRODUCTION TO THEATER

Students describe, interpret and appraise the roles and working processes of theatre practitioners. Students analyze the history and collaborate on the assembly and process of a play performance. Prerequisite: Completion of ENGL 0810 or equivalent placement test score.

THEA 1100 BEGINNING ACTING

3 CREDITS

Students explore beginning acting. Students demonstrate acting skills including objective, obstacle, strategy and tactics through the performance of monologues and scenes. Prerequisite: Completion of ENGL 0810.

THEA 2000 3 CREDITS THEATRE PRODUCTION

Students participate in a theatrical production. Students may either perform in the production or work behind the scenes in a technical area. Performers are cast based on an audition. Students demonstrate professionalism and work with others to achieve a polished production. Performances are required. May be repeated for up to 4 times for credit.

THEA 2010 3 CREDITS BACKGROUNDS OF DRAMA I

Students explore dramatic literature in Western culture, from the Greeks through the 19th century, studying plays in terms of style, content, theme, theatrical conventions and structure. Students examine each play as a representation of its age and as a placeholder in the dramatic canon. Students watch productions of plays on video and in live performance to supplement the readings.

THEA 2020 3 CREDITS BACKGROUNDS OF DRAMA II

Students explore dramatic literature in western culture, from 19th century to the present, studying plays in terms of style, content, theme, theatrical conventions, and structure. Students examine each play as a representation of its age and as a placeholder in the dramatic canon. Students watch productions of plays on video and in live performance to supplement readings.

I CREDIT THEA 2100 ACTING II

A course to develop the actor's voice and body for character development and character interaction through the performance of monologues and scenes.

3 CREDITS

3 CREDITS

THEA 2160 3 CREDITS INTRODUCTION TO STACE MAKE-UP Introduction to Stage Make-Up is designed for the beginning student. Students demonstrate and apply basic theatrical make-up principles and practices. Students implement practical artistic problem-solving and critical thinking skills as they apply stage makeup techniques and theory.

THEA 2220 STAGECRAFT

An introduction to the various aspects of stagecraft. Prerequisite: Completion of MATH 0970 or MATH 0980, or equivalent placement test score.

THEA 27203 CREDITSINTRODUCTION TO STAGE COMBATStudents learn safety and propertechnique in staging acts of swordplayand hand-to-hand combat for thetheatre. Students practice criticalthinking skills in using violence toadvance character and story in a dramaticcontext.

Welding Technology

WELD 1555 2 CREDITS WELDING TECHNOLOGY SAFETY Students identify common hazards in welding, appraise material safety data sheets, assess safe techniques to avoid welding fumes, and determine safe techniques for storing and handling compressed gas cylinders. In addition, students verify safe techniques for using electrical components, validate power tool safety, and justify proper lock-out/ tag-out procedures. They also evaluate forklift safety procedures, critique proper rigging techniques, and demonstrate correct respirator selection and use along with correct fire extinguisher use.

WELD 1650 3 CREDITS PRINT READING AND WELDING SYMBOLS

Students interpret welding prints used in the welding industry to include welding symbols, sketching, view representation, orthographic projection, measurement formulas, basic layout, and distortion control. Students build skills in layout, cutout, and assembly of weldments.

WELD 1655 2 CREDITS ALLIED CUTTING PROCESSES

Students set up equipment and perform cutting and gouging operations utilizing the oxy fuel, air carbon arc, and plasma arc cutting processes. This course will also provide an introduction to blueprint reading. Prerequisite: Completion of or concurrent enrollment in WELD 1555.

WELD 1722 WELDING SHOP III

Students continue to develop welding skills to become proficient in the welding industry and complete tasks, focusing on applying information and techniques from courses in the third semester of the Welding Technology program.

WELD 1723 3 CREDITS WELDING SHOP IV

Students continue to develop welding skills to become proficient in the welding industry and complete tasks, focusing on applying information and techniques from courses in the fourth semester of the Welding Technology program. Instructor consent required.

WELD 1755 4 CREDITS SHIELDED METAL ARC WELDING I

Students gain knowledge about equipment and setup, electrodes, and electrode selection used in shielded metal arc welding, utilizing the American Welding Society standards of acceptability to develop manual skills necessary to produce quality single and multiple pass welds in all positions using filler metals such as low hydrogen, non-low hydrogen, and iron powder electrodes commonly used in the welding industry. Prerequisite: Completion of or concurrent enrollment in WELD 1555.

WELD 1756 4 CREDITS SHIELDED METAL ARC WELDING II Students explain equipment and setup,

Students explain equipment and setup, electrodes, and electrode selection used in shielded metal arc welding. Students develop manual skills necessary to produce single and multiple pass welds with backing plate in all positions as defined by the American Welding Society standards of acceptability. Students demonstrate proper use of filler metals such as low hydrogen, non-low hydrogen, and iron powder electrodes commonly used in the welding industry and also specified by the American Welding Society. Prerequisite: Completion of WELD 1755.

WELD 1760 4 CREDITS ADVANCED SHIELDED METAL ARC WELDING

Students gain knowledge about equipment and setup, electrodes, and electrode selection used in shielded metal arc welding, utilizing the American Welding Society standards of acceptability to develop manual skills necessary to produce quality single and multiple pass welds in all positions using filler metals such as low hydrogen, non-low hydrogen, and iron powder electrodes commonly used in the welding industry. Prerequisite: WELD 1755.

WELD 1771 4 CREDITS GAS METAL ARC WELDING/ FLUX CORED ARC WELDING

Students gain knowledge about equipment and setup, electrodes, and electrode selection used in shielded metal arc welding, utilizing the American Welding Society standards of acceptability to develop manual skills necessary to produce quality single and multiple pass welds in all positions using filler metals such as low hydrogen, non-low hydrogen, and iron powder electrodes commonly used in the welding industry. Prerequisite: WELD 1755.

WELD 1805 PIPE WELDING I

4 CREDITS

Students gain knowledge about equipment and setup, and electrodes and electrode selection used in shielded metal arc welding. Students utilize the American Welding Society standards of acceptability to develop manual skills necessary to produce quality single and multiple pass welds in 2G and 5G pipe positions using filler metals such as low hydrogen, non-low hydrogen, and iron powder electrodes commonly used in the welding industry. Prerequisites: Completion of WELD 1760.

WELD 1810 PIPE WELDING II

4 CREDITS

Students continue to learn about equipment and setup, electrodes, and electrode selection used in shielded metal arc welding. Utilizing the American Welding Society's standards of acceptability, students develop manual skills necessary to produce single and multiple pass welds in 6G SMAW pipe and 2G GTAW pipe positions. Students demonstrate proper use of filler metals such as low hydrogen, non-low hydrogen, and iron powder electrodes commonly used in the welding industry and also specified by the American Welding Society. Prerequisite: Completion of WELD 1805.

WELD 1815 PIPE WELDING III

4 CREDITS

Students gain knowledge about equipment and setup, electrodes, and electrode selection used in shielded metal arc welding, utilizing the American Welding Society standards of acceptability to develop manual skills necessary to produce quality single and multiple pass welds in 5G and 6G pipe positions using filler metals such as low hydrogen, non-low hydrogen, and iron powder electrodes and GTAW welding process commonly used in the welding industry. Prerequisite: Completion of WELD 1810.

WELD 1860 WELDING FABRICATION

3 CREDITS

Students design and fabricate welding projects to demonstrate knowledge of a working print, estimation of cost and time, and a list of materials required. They use visual and non-destructive testing materials to evaluate for correct and sound welds. Prerequisite: Completion of WELD 1650.

WELD 1920 4 CREDITS BASIC PIPE WELDING

Students weld light and heavy walled pipe in all positions using shielded metal arc welding and/or gas tungsten arc welding, gas metal arc welding, and flux cored arc welding techniques. Students use correct techniques for fit-up and layout IAW procedures approved by the American Welding Society and American Society of Mechanical Engineers.

WELD 2650 4 CREDITS GAS TUNGSTEN ARC WELDING

Students gain knowledge of the gas tungsten arc welding process. They gain knowledge of theory, fundamentals, equipment, and safety information as well as hands-on practice with ferrous and non-ferrous metals to develop skills. Students demonstrate a high degree of eye-hand coordination to develop proficiencies necessary to complete course requirements. Prerequisite: Completion of WELD 1755.

WELD 2680 2 CREDITS WELDING METALLURGY

Students gain knowledge and proficiencies to identify physical and mechanical properties, metal identification, carbon equivalency, selection of filler metal based on the parent metal, heat input (Joules), and the effects of heat on the weld zone. Students identify properties of heat treatment and stress relief applications within the weld zone.

Wind Energy

WTT 1000 3 CREDITS INTRODUCTION TO WIND ENERGY

This course introduces students to the fundamental concepts of turning energy from the wind into electricity. Students explore the history and projected future of producing energy from the wind. Students identify the various scales of wind turbines, design types, and their major subcomponents. Students perform a general analysis of sites where wind turbine installation is developing, along with analyzing federal and state policy regarding the production of power from large- and small-scale wind turbines.

WTT 1100 2 CREDITS CLIMB SAFETY AND TOWER RESCUE TRAINING

Students identify the safety hazards associated with wind turbine maintenance activities. They also explain and demonstrate the safe practices required to mitigate those hazards and respond to tower rescue situations. (S/U grade only)

WTT 1200 3 CREDITS WIND TURBINE MECHANICAL SYSTEMS

Students examine the operation and construction of wind turbine mechanical systems. They explain and perform preventive maintenance procedures and lubrication requirements. Emphasis is placed on identifying potential mechanical failures that are associated with the maintenance procedures. Students develop the skills to inspect, disassemble, and reassemble wind turbine mechanical systems using specialized tools and equipment. They demonstrate proper lubrication and preventive maintenance techniques and mechanical repair procedures. Prerequisites: Completion of IST 1660 and IST 1661.

WTT 1300 3 CREDITS THEORETICAL CONCEPTS OF ROTATING MACHINES

Students engage in a comprehensive study of the operational theory of DC motors and generators, three phase AC motors and generators, and single phase and three phase transformers. Students examine the principal characteristics of these machines through lecture and demonstration. Emphasis will be placed on motors, generators, and transformers that are used in the wind industry. Prerequisite: Completion of WTT 2500.

WTT 1470 3 CREDITS WIND ENERGY TECHNOLOGY INTERNSHIP

Students gain hands-on field experience to apply the technical, mechanical, and electrical skills they have developed. Students also gain valuable exposure to the wind energy industry and the major companies involved in wind energy power production and maintenance. Prerequisites: Students must successfully complete a minimum of 24 Wind Energy technical credits and 10 programrequired general education credits prior to enrollment.

WTT 2200 3 CREDITS ADVANCED WIND TURBINE GENERATOR MECHANICAL SYSTEMS

Students analyze, troubleshoot, and document critical wind turbine generator systems. Students perform systems analysis and diagnostics evaluation to develop solutions based on given data. Students also analyze failed components and identify root cause failures. Students demonstrate proper inspection techniques and provide written documentation of their results. Students interpret technical manuals and submit written corrections for inaccuracies. Students perform preventive maintenance procedures on an operational wind turbine generator. Prerequisite: Completion of WTT 1200.

WTT 2300 2 CREDITS WIND TURBINE DATA ACQUISITION

Students identify National and European schematic symbols, analyze operating characteristics, and explain the operation of interrelated wind turbine systems. Students examine measurement variables in wind turbines and explain how these variables are compiled/ evaluated and then transmitted through a SCADA (Supervisory Control and Data Acquisition) system. Students analyze the resultant data and control/ feedback functions related to wind turbines are determined. This course is a comprehensive exercise in both applied schematics as well as the overall operation of a wind turbine Prerequisites: Completion of WTT 1300 and WTT 2500.

WTT 2400 3 CREDITS POWER GENERATION, TRANSMISSION, AND DISTRIBUTION

Students identify and explain the Occupational Health and Safety Administration and National Fire Protection Agency requirements as well as the risks and hazards associated with working on high voltage systems. Students apply three-phase electrical power generation characteristics to utility scale transformers, relays, capacitors, switchgear, and related components for common configurations. Prerequisites: Completion of WTT 1300 and WTT 2500.

WTT 2500 3 CREDITS ADVANCED AC ELECTRICITY

Students identify and explain semiconductor operating principles as they apply to DC and AC electrical drives and power conversion systems used in wind turbine power generation. Students also examine electrical instrumentation used for control in the operating systems of wind turbines. Prerequisite: Completion of IST 1712.

WTT 2600 4 CREDITS ADVANCED INDUSTRIAL MOTOR CONTROL APPLICATIONS

Students engage in practical wiring exercises involving installation, wiring, and troubleshooting of electrical devices and equipment used in wind turbine control systems. Students demonstrate electrical and troubleshooting safety while working on both de-energized and energized circuits up to 600 volts three phase. Students examine electrical diagrams, design of electrical systems, and electrical safety. Prerequisites: Completion of WTT 1300 and WTT 2500.

Women's Studies

WMST 2040 TOPICS: HISTORY OF WOMEN IN AMERICA

Students gain insights into the political, economic, and social contributions made by American women. Focusing on women from a broad range of ethnicities, classes, religions, and regions, students identify how women and women's history are an integral part of U.S. history. Prerequisite: Completion of ENGL 1010 or concurrently enrolled in ENGL 1010. (Cross-listed as HIST 2060B)

3 CREDITS

WMST 2389 3 CREDITS HISTORY OF WOMEN AND THE AMERICAN WEST

Students survey the roots of society's marginal historical depiction of women in the American West from the colonial period through the twentieth century. Students develop a multi-dimensional understanding of women's roles using an interdisciplinary approach from the perspectives of race, class, ethnicity, and gender. Cross-listed as HIST 2389. Prerequisite: Completion of ENGL 0810 or placement into ENGL 1010.

Zoology

ZOO 2010 4 CREDITS ANATOMY AND PHYSIOLOGY I

The first semester of a two-semester course in which students explore the structure and function of the human body. Students examine the following systems: integumentary, skeletal, muscular, nervous systems, and the special senses. Students develop vocabulary including histology and directional and anatomical terms. Students explore homeostatic and functional mechanisms from a molecular, cellular, and organ level. Students are recommended to complete CHEM 1000 or higher prior to enrolling in this course. Prerequisite: Completion of BIOL 1010.

ZOO 2015 HUMAN ANATOMY

Students study the structure of the human body. Students consider each organ system from a basis of tissue and gross structure. Students also explore the impact of the study of human anatomy upon history and upon modern society. Prerequisite: Placement into MATH 1010 or higher.

ZOO 2020 4 CREDITS ANATOMY AND PHYSIOLOGY II

The second semester of a two-semester course in which the student continues to explore the structure and function of the human body. During the second semester, students examine the following organ systems: endocrine, lymphatic and immune, cardiovascular, respiratory, digestive, urinary, and reproductive. Additionally, students expand their vocabulary of histology, directional, and anatomical terms and acquire knowledge in homeostatic and functional mechanisms from a molecular, cellular, and organ level. Prerequisite: Completion of ZOO 2010.

ZOO 2025 4 CREDITS HUMAN PHYSIOLOGY

Students explore function in the human body including homeostatic and functional mechanisms at the molecular and cellular levels through the level of organ systems. Students apply fundamental principles to explain the performance and regulation of body functions. Students are recommended to complete BIOL 1010, or CHEM 1000 or higher prior to enrolling in this course. Prerequisite: Completion of ZOO 2015.

ZOO 2450 3 CREDITS WILDLIFE MANAGEMENT

Students acquire knowledge in this introductory course in wildlife management history on policy, and ecology related to wildlife management, the importance of human dimensions, differing wildlife values of stakeholders, economic considerations, and current issues in wildlife management. Students develop a wildlife management plan on a current wildlife management issue. Students also gain knowledge in the education, skills sets, and experience needed to gain employment in a wildlife management field and develop a resume. Offered in spring semesters. Prerequisite: Completion of BIOL 1010 with a grade of C or higher.

4 CREDITS

Administration and Full-Time Faculty

- Kristin Abraham, Instructor, English, BA, Central Michigan University, 2003; MFA, West Virginia University, 2006
- M. Michele Albert, Instructor, Zoology/ Biology, BS, University of Wyoming, 1988; DVM, Colorado State University, 1999
- Jennifer Anderson, Program Director, Nursing, BSN, University of Wyoming, 1982; MSN, University of Wyoming, 2003
- Harold Andrews, Director, Accounting Services, BS, Adams State College, 1988
- Teresa Authier, Librarian, BA, University of Wyoming, 1990; MSIS, University of North Texas, 2012
- Paula Badgett, Librarian, BA, University of Utah, 1991; BA, University of Utah, 1991; MLIS, University of Wyoming, 2001
- David Beals, Instructor, Engineering Technology, AS, Laramie County Community College, 1999; BS, University of Wyoming, 1999; MS, University of Wyoming, 2001; AAS, Laramie County Community College, 2002
- Paula Belknap, Instructor, Nursing, AAS, Nursing, LCCC, 1992; BSN, Graceland College, 2000; MSN, Graceland University, 2006; Nurse Educator Post Master's, 2007
- Rachel Belouin, Instructor, English, MFA, Antioch University, 2008
- Kim Bender, Associate Vice President, Institutional Effectiveness, BS, University of Mary, 1978; MA, University of Oklahoma, 1989; PhD, University of Oklahoma, 1996
- Monica Benes, Instructor, Mathematics, BA, Oregon State University, 1981; MA, Oregon State University, 1983; AA, Portland Community College, 1993
- Robert Benning, Instructor, Automotive Body Repair, Diploma, Wyoming Technical Institute, 1988; AOS, Wyoming Technical Institute, 1998; AAS, Laramie County Community College, 2011; Mater Collision Repair Technician, National Institute for Automotive Service Excellence, 1989
- Juan-Antonio Bernabeu, Instructor, Spanish, AA, College of South Idaho, 1996; BA, Brigham Young University, 1999; MA, Brigham Young University, 2001
- Bryan Boatright, Instructor, Wind Energy, AAA, Kim Dawson Southwest Conservatory
- Kari Brown-Herbst, Director, Center for Teaching & Learning, BA, Kalamazoo College, 1984; MA, Marian College, 2006

- Ken Bunya, Director, Systems and Technology Support, BA, Ryukoku University, 1999; AAS, Laramie County Community College, 2001
- James A. Burghard, Manger, Homeland Security Program, AAS, Community College of the Air Force, 2013; BS, Excelsior College, 2010; MA, American Military University
- Ian Caldon, Instructor, Spanish, BA, Cinema Studies, San Francisco State University, 2006; MA, Pontifical Catholic University of Peru, 2009
- Jonathan Carrier, Instructor, Psychology, AA, University of Maryland College, 1998; BS, East Tennessee State University, 1999; MS, Portland State University, 2002
- Mohamed Chakhad, Instructor, Physics/ Mathematics/Engineering, BS, University of Mary Washington, 2002; PhD, University of Texas, 2009
- **Constance Czarnecki**, Instructor/ Program Director, Surgical Technology, Certified Surgical Technologist, 1997; Certified Surgical First Assistant, 2001; BBA, Ashley University, 2014
- Burton Davis, Instructor, Science/ Mathematics Albany County Campus, BA, Cornell University, 1965; MS, University of Wyoming, 1976; MS, University of Wyoming, 2006
- Dusty Day, Instructor, Communications, BS, Illinois State University, 2005; MS, Illinois State University, 2007
- **Oing Du**, Instructor, Chemistry, BS, Ocean University of China, 1990; MS, Research Center for Eco-Environmental Sciences Academia Sinica, 1993; PhD, Research Center for Eco-Environmental Sciences Academia Sinica, 1997; PhD, Lulea University of Technology, 1997
- Robin Duncan, Instructor, Nursing, BSN, University of Wyoming, 1997; MSN, University of Wyoming, 2002
- Roger Findley, Instructor, Cisco Technology, A+, Network+, Security+, Server+, MCSE+, MCP+Internet, CCNA, CCNA-Security, CCDA, CCAL, VCA-DCV, VCA-WM
- Elhadji Gaye, Instructor, Mathematics, MS, Electronics & Telecommunications, University of Nice, 2009; MS, Mathematical Science, University of Cincinnati, 2012
- Luanne Gearhart, Instructor, Psychology, BS, Ohio University, 1979; MA, University of Northern Colorado, 1985
- Samuel Graham, Instructor, Welding
- Jeri Griego, Instructor, Accounting/ Business, AS, Laramie County Community College, 1976; BS, University of Wyoming, 1977; MBA, University of Wyoming, 1979

- Therese Harper, BSN, University of Michigan, 1978; MS Degree in Career and Technical Education, Ferris State University, 2006; Certificate Program, Total Quality Management, Ferris State University, 2009; CRRN (Certified Rehabilitation Registered Nurse), valid through 12/31/15
- Laura Hayes, Instructor, English, BA, Grand Valley State University, 2001; MA, Central Michigan University, 2006
- Melvin Hawkins, Jr., Dean, School of Business, Agriculture and Technical Studies, BS, University of the State of New York, 1986; MPA, Try State University, 1991; Certified Equal Opportunity Professional, South Carolina Department of Human Affairs, 2000; Certified Public Manager Credentials, South Carolina and Control Board, 2000; EdD, Northcentral University, 2014
- Judy Hay, Vice President for Student Services, BS, Education, Montana State University, 1979; MAEd, Montana State University, 2003
- Kira Heater, Instructor, Mathematics Albany County Campus, BA, St. Johns College, 1997; MA, University of Montana, 2005
- **Cynthia Henning,** Instructor/Coordinator, Physical Education, AA, Eastern Wyoming Junior College, 1985; University of Northern Colorado, 1988; MA, University of Northern Colorado, 1993
- Dawn I. Jung, Lead Instructor AE/HSEC, Adult Career and Education System, AA, Eastern Wyoming College, 2000; BS, University of Wyoming, 2002; MS, University of Wyoming, 2004
- Meghan Kelly, Librarian, BA, Montana State University, 1997; MLIS, University of Texas at Austin, 2000
- Patricia Kessler, Instructor, History, BS, University of Wyoming, 1998; MA, University of Wyoming, 2002
- Tyler Kjorstad, Instructor, Mathematics, BA, Mathematics, The College of Saint Scholastica, 2009; Applied Economics, The College of Saint Scholastica, 2009; Finance, BS, The College of Saint Scholastica, 2009; University of Minnesota Duluth, 2011
- Damien Kortum, Instructor, English, BA, Black Hills State University, 2003; MA, University of Northern Colorado, 2005
- Jill Koslosky, Dean of Students, Student life, BA, Journalism, Colorado State University; MS, Agriculture, Colorado State University; DM, Community College Administration and Policy, University of Maryland

Robert LaFaso, Instructor, Automotive Technology, Diploma, Denver Automotive and Diesel College, 1983; Master Automobile Technician, National Institute for Automotive Service Excellence, 1996; AAS, Laramie County Community College, 2011

Karen Lange, Associate Dean, Library and Learning Commons, BA, University of Wyoming, 1973; MA, University of Denver, 1975

Kathleen Lemaster, Lead Electronic Instructor, Integrated Systems Technology, International Brotherhood of Electrical Workers Joint Apprenticeship, 1982; AAS, Laramie County Community College, 1993

R. Warren Lemerich, Instructor, Mathematics, BS, The Ohio University, 1990; MA, The Ohio State University, 1992

Mary Ludwig, Instructor, History, BA, University of Texas, 1999; MA, University of Wyoming, 2002

Tim Macnamara, Director, Physical Plant, BSCE, University of Colorado, 1970; MS, University of Colorado, 1975

James Malm, Vice President, Albany County Campus, BS, Penn State College of Health and Human Development, 1991; MPA, Penn State Capitol College, 1997; DM, University of Maryland University College, 2004

Holly Manning, Instructor, Communications, BA, Hasting College, 2005; MS, Minnesota State University, 2007

David Marcum, Instructor, Government Studies, BA, University of Wyoming, 1987; MA, University of Wyoming, 1990; MPA, University of Wyoming, 1995

Chad Marley, Chief Technology Officer, AS, Eastern Wyoming Community College, 1993; BS, Gardner-Webb University, 1994; MS, University of Wyoming, 2014

Starla Mason, Program Director/ Instructor, Radiography, AAS, Laramie County Community College, 1980; BS, University of Wyoming, 1987; MSM, Lesley College, 1994

Daniel Maw, Instructor, Art, AA, Muscatine Community College, 2003; BFA, University of Iowa, 2006; MFA, University of Tennessee, 2010

Lanae McDonald, Instructor, Equine Studies, AS, Laramie County Community College, 2003; BS, Kansas State University, 2004; MS, Kansas State University, 2006

Dean McIntire, Instructor, Mathematics, MS, Mathematics, University of Wyoming, 1964; PhD, Candidate Mathematics, University of Oregon

- Laura McMennamin, Instructor, English Albany County Campus, BA, University of Wyoming, 1991; MA, University of Wyoming, 2000; MFA, Texas State University, 2004
- **Robert McNabb**, Instructor/Program Director, Heating, Ventilation, and Air Conditioning/Refrigeration, AAS, Community College of the Air Force, 1999; AAS, Community College of the Air Force, 2002; BS, Southern Illinois University Carbondale, 2007

Ronald Medina, Instructor, Art, BFA, Colorado State University, 1993; MFA, Washington State University, 1998

Scott Moncrief, Instructor, Education, BA, University of Nebraska-Lincoln, 1992; MSN, University of Nebraska-Lincoln, 1994

Trent Morrell, Instructor, Bioscience, BA, Augustana College, 1992; MA, Western Illinois University, 2003

Lisa Murphy, AVP of Institutional Advancement, BA, Colorado State University, 1991; MA, University of Wyoming, 2005

Lisa Nordyke, Instructor, Developmental Mathematics, BA, Hasting College, 1985; MSN, University of Wyoming, 1988

Joshua O'Brien, Instructor, Mass Media/ Multimedia, AA, Laramie County Community College, 1998; BS, University of Wyoming, 2000

Jason Pasqua, Instructor, Theatre/ Communication, AA, Northeastern Junior College, 1997; BFA, University of Wyoming, 1999; MFA, University of Idaho, 2003

Joshua Petersen, Communications, BA, Winona State University, 2003; MS, Minnesota State University, Mankato, 2006

Daniel Powell, Dean, Arts and Humanities, BM, West Texas A&M University, 2001; MM, Arizona State University, 2003; DM, Florida State University, 2009; MBA, Troy University, 2013

Roxanne Powers, Instructor, Dental Hygiene, BS, Wayne State College, 1980; AAS, Central Community College, 1985; MA, University of Northern Colorado, 2014

Dawn Puente, Instructor/Program Director, Health Information Technology and Management, BS, University of Wyoming, 1995

Ashleigh Ralls, Instructor, Radiography, AAS, Laramie County Community College, 2005; BS, Bellevue University, 2012

Arshi Rizwani-Nisley, Instructor, English, BA, Rocky Mountain College, 1988; ME, Eastern Montana College, 1993

Seth Robbins, Instructor, Automotive Body Repair, ASE Master Certification

- Lee Roberson, Instructor, Mathematics, MS, Mathematics, University of Kentucky, 2007; PhD, Mathematics, Colorado State University, 2013
- Nicholas Robertson, Instructor, Exercise Science, MS, Eastern Washington University, 2014
- Zachary Roehrs, Instructor, Zoology, MS, Natural Recourse Science, University of Nebraska, 2004; PhD, Zoology, Oklahoma State University, 2013
- John Sanford, Instructor, Psychology, BA, University of Kansas, 1970
- Joseph Schaffer, President, AA, Bemidji State University, 1996; BS, University of Montana, 1998; MS, Montana Tech of the University of Montana, 2001; EdD, University of Montana, College of Education and Human Sciences, 2011
- Marlene Shaw, Instructor, Nursing, Diploma, RN, WNGH School of Nursing, 1985; BA, Liberal Arts, Thomas Edison State College, 2004; MSN, University of Phoenix, 2012
- Ann Shelby, Instructor, Education, AAS, Pikes Peak Community College, 1984; BA, University of Northern Colorado, 1987; MA, University of Colorado, 1993
- Jeffrey Shmidl, Instructor, Economics/ Finance, AS, Casper College, 1991; BS, University of Wyoming, 1998; MSF, University of Wyoming, 2000; MSE, University of Wyoming, 2005; CPM, Laramie County Community College, 2015
- Travis Shoopman, Instructor, Equine Studies, AS, Laramie County Community College, 2000
- Scott Smidt, Instructor, Life Science Albany County Campus, BS, Purdue University, 1991; MS, University of Alaska Fairbanks, 1997; DA, Idaho State University, 2008

Courtney Springer, Instructor, Biology, PhD, Biochemistry & Molecular Biology, Colorado State University, 2013

- **Crystal Stratton,** Instructor, Communications, BA, University of Wyoming, 1989; MLS, University of Arizona, 1991; MA, University of Wyoming, 2008
- **Gerard Streelman**, Instructor, Business and Computer Information Systems, AS, Mott Community College, 1998; BS, University of Wyoming, 2005; CPM, Laramie County Community College, 2015
- Lawrence Struempf, Instructor, LINUX/ CISCI/Computer Information Systems Albany County Campus, BS, University of Wyoming, 1998; MS, Regis University, 2005
- Maggie Swanger, Instructor, Library Science, BS, University of Oregon, 1999; MA, University of Arizona, 2005
- Leif Swanson, Instructor, English, BA, University of Northern Iowa, 1987; MA, University of Northern Colorado, 1990

- Russell Tafoya, Instructor, Human Services, MSW, Social Work, Colorado State University, 2009
- Maryellen Tast, Dean, Lifelong Learning Center, AS, Delaware County Community College, 1982; BS, University of Wyoming, 1995; MA, University of Phoenix, 2004
- Brian Uzpen, Instructor, Astronomy/ Physics, BS, University of Minnesota, 2001; MS, Minnesota State University, 2003; PhD, University of Wyoming, 2009
- Robert Van Cleave, School Chair, Computer Information Systems, BS, University of Wyoming, 1985; MS, University of Wyoming, 1992
- Larry Van Why, Instructor, Diesel Technology, Certificate, Tractor Diesel Technology Western Nebraska Vo-Tech, 1971; Master Medium/Heavy Truck Technician, National Institute for Automotive Service Excellence, 1996
- Adrienne Wade, Instructor, Diagnostic Medical Sonography, BS, Fort Hays State University, 2002

Kay Wagner, Instructor, Nursing, BS, University of Wyoming, 1986; BSN, Creighton University, 1988; MSN, University of Colorado, 2002; PhD, University of Colorado, 2008

Ami Wangeline, Instructor, Biology, BA, Ripon College, 1999; MS, University of Wyoming, 2001; PhD, Colorado State University, 2007

- Christina Warren, Instructor, Nursing, BSN, University of Wyoming, 2001; MSN, University of Phoenix, 2011
- Matthew West, Instructor, Art, BA, Rochester Institute of Technology, 1981; MA, Southern Illinois University, 1986
- Bryan Wilson, Instructor, Agriculture, AS, Laramie County Community College; BS, University of Wyoming, 2009; BS, University of Wyoming, 2009; MS, University of Wyoming, 2011
- Adam C. Winn, Instructor, AE/HSEC, Adult Career and Education System, AA, Business Administration, Laramie County Community College, 2006; AS, English Education, Laramie County Community College, 2006; BA, LaRocha College, 2008

- Marie Yearling, Instructor, Microbiology, PhD, Biochemistry & Molecular Biology, Colorado State University, 2013
- Shannon Zavorka, Instructor, Mathematics Albany County Campus, BA, University of Northern Colorado, 2001; MS, University of Northern Colorado, 2003; PhD, University of Wyoming, 2009
- Tianix Zhang, Instructor, Physical Chemistry, BS, Chemical Engineering, Nanchang University, China, 1983; PhD, Chinese Academy of Science, China, 1999
- Jean Zlomke, Coordinator/Instructor, Nursing, AAS, Laramie County Community College, 1992; BS, University of Wyoming, 1992; MSN, University of Wyoming, 2007
- David Zwonitzer, Instructor, English/ Philosophy, BA, University of Northern Colorado, 1977; MA, University of Northern Colorado, 1983

Educational Services Staff

- Sherry Acheson, Coordinator, Eastern Laramie County
- Pamela Adams, Office Assistant/ Accounts Receivable Technician
- Austin Albers, Head Women's Volleyball Coach
- **Deborah Ambroso**, Administrative Assistant, Student Life
- Jessica Araujo Perez, Interim Associate Teacher
- **Destiny Baccino**, Academic Advisor **Gloria Bailon**, Custodian I
- **Robert Baker,** Specialist, Human Resource Development & Training
- **Leslie Balsiger,** Director, Center for Academic Technologies
- Janine Bangerter, Division Assistant, Albany County Campus Academic Affairs
- Jennifer Banks, Academic Advisor, Albany County Campus
- Alexandria Barker, Admissions Representative
- Dianne Bath, Academic Advisor
- Michelle Beahm, Accounting Technician, Receivables
- Terry Benson, Custodian I
- Shauna Best, Technician, Accounting (Student Accounts/Cashier)
- Vicki Boreing, Executive Assistant to the President/Secretary, Board of Trustees
- Suzann Briggs, Custodian I
- Amanda Brown, Counselor

- Tamatha Brue, Associate Teacher, Children's Discovery Center
- Jesse Brumfield, Academic Advisor
- Gary Carlson, Custodian II
- Kimberly Castaneda, Administrative Assistant, Athletics and Recreation
- Aaron Casteel-Hatfield, Assistant, Mail, Shipping/Receiving and Warehouse
- Elsa Chavez, Associate Teacher, Children's Discovery Center
- Janice Cheever, Specialist, Technical Skill Training
- Kim Cisler, Administrative Assistant, ACES
- Colby Collier, Custodian II

Terry Cook, Program Manager, Warren Air Force Base

- Misty Cosseboom-Swainson, Technician, Student Records
- Mark Crase, Manager, Facility Operations
- James Crosby, Director, Campus Safety Carolyn Cuestas, Library Technician, Public Services

Patrick Currie, Program Manager, Emergency Services

David Curry, Manager, Technical Studies Program Development

Cathy Curtis, Office Assistant, Physical Plant

Jonathan Dachel, Maintenance Technician, Architectural

Christine DeBruyn, Associate Teacher, Children's Discovery Center **Pamela DeMartin**, Supervisor, Accounting and Payroll Services

- **Glenn Dorminey,** Maintenance Technician, Mechanical
- **Cinthia Downey,** Associate Teacher, Children's Discovery Center
- Raymond Dykstra, Custodian II
- Gail Eckert, Technician, Student Services
- Amy Ehlman, Administrative Assistant, Vice President of Academic Affairs Office
- Brynn Elliott, Coordinator, Disability Services
- Kirby Eppert, Interim Head Coach, Rodeo
- Sammy Espinoza, Database Administrator, SQL
- **Richard Evelo**, Manager, Grounds Maintenance
- Mindy Falkner, Coordinator, Counseling & Campus Wellness
- Bobby Farnes, Supervisor, Mech, Elec, Plumbing Trades
- Candace Ferrall, Proctor, Exam Lab Jason Ficca, Head Coach, Men's
- Basketball **Alan Fitch**, Grounds Assistant
- Kathryn Flewelling, Director, Student Planning and Success
- Gregory Flores, Creative Coordinator
- Joslyn Gaines, Program Manager, Adult Career and Education System
- **Melissa Gallant**, Program Assistant, Facilities and Events

- William Gallatin, Campus Safety Officer, Albany County Campus
- Shayne Gancze, Technician, Audiovisual
- Diane Germond, Accounting and Finance Specialist
- Julie Gerstner, Business Analyst, Student Services
- Vince Gibson, Head Coach, Men's Soccer Scot Gillespie, Custodian I

Jeffrey Glanzer, Technology Support Specialist

Christie Goertel, Program Manager, Life Enrichment

Ricky Gould, Custodian I

Marie Gulizia, Custodian I

Tiffany Gutierrez, Administrative Assistant, Integrated Technology Systems

Rakhshi Hamid, Director, Center for Secondary Students

Sarah Hannes, Director, Admissions & Welcome Center

Danny Harris, Maintenance Technician, HVAC/R

Alexis Hartley, Academic Advisor

- Katherine Hartmann, Academic Advisor
- Mary Henning, Librarian, Albany County Campus
- Loretta Henry, Manager, Campus Printing
- Linda Herget, Specialist, Library Public Services

Robert Hing, Specialist, Systems and Technology Support, ACC

Theresa Hixon, Financial and Billing Processor, Children's Discovery Center

Shawn Holz, Director of Academic Affairs, ACC

Bryon Hopper, Grounds Assistant

John Hughes, Custodian III

Nathan Huseth, Web Developer/ Multimedia Designer

Kyle Inselman, Career Education Specialist

Elizabeth Ivie, Administrative Assistant, School of Business, Agriculture & Technical Studies

Marvin Jackson, Custodian I

Sheri Johnson, Executive Administrative Assistant, Administration and Finance

Nicole Johnson, Associate Teacher, Children's Discovery Center

Darlene Kaelin, Coordinator, Workforce Development

Michelle Kallhoff, Executive Administrative Assistant, Vice President of Student Services

Adam Keizer, Program Manager, GEAR UP

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Thomas Kelly, Ag/Equine Facilities Manager

John King III, Manager, Building Services Marina Kirakosyan, Teacher, Children's Discovery Center Jackie Kisinger, Specialist, Help Desk/ Telecommunications

Michael Kitchin, Office Assistant, Albany County Campus

Halley Klawon, Interim Associate Teacher

Timothy Kochery, Senior Instructional Designer

Amanda Kutsch, Administrative Assistant, School of Health Sciences and Wellness

Daniel Lacombe, Custodian I

Katherine Lake, Campus Safety Officer Stacy Landon, Library Technician,

Acquisitions/Cataloging Sabrina Lane, Accounting Compliance Supervisor

Mindy Layson, Specialist, Human Resources (HRIS)

- Arlene Lester, Program Manager, Facilities and Events
- Cynthia Lindsay, Buyer

Cynthia Madsen, Administrative Assistant, Physical Plant

Stacy Maestas, Registrar

Juan Maldonado, Campus Safety Officer

Jeffrey Manners, Custodian I

Kindal Mark, Temporary Student Records/Admissions Technician

Nicholas Marlin, Admissions Representative

- Mary Martin, Program Assistant, F.E. Warren AFB
- Cynthia Martinez, Custodian I
- Michelle Massey, Technician, Financial Aid
- Angela Massman, Coordinator, GEAR UP Austin Mathews, Technician, Distance Learning/Audiovisual

Dana McCammon, Administrative Assistant, Library and Learning Commons

Cindy McCormick, Library Technician, Serials

Allison McCown, One-Stop Coordinator Debora McCoy, Coordinator, Testing

Center

Marsha McCune, Lead Accounting Technician, Receivables/Cashier

Rachael McElroy, Administrative Assistant, ACT Now! Career Training

- Jamie McKim, Specialist, Student Services
- David McVay, Supervisor, Shipping/ Receiving, Mail Services and Warehouse
- Troy Mefferd, Custodian I

Vito Milatzo, Assistant Director, Financial Aid

Luzette Miller, Accounting Technician, Payables

Edith Miller, Manager, Project and Application Support

James Miller, Special Assistant, Vice President of Academic Affairs Jennifer Miller, Associate Teacher, Children's Discovery Center

Carol Miyake, Coordinator, Student Success Center, Albany County Campus

Dorothy Moen, Specialist, Human Resources (Benefits)

- Lenora Munoz, Assistant to the Director, Admissions
- Ann Murray, Director, Institutional Research
- Jayne Myrick, Director, Budget
- Sabra Nation, Associate Teacher, Children's Discovery Center
- Ann Nelson, Director, Corporate Development & Major Gifts

Charles Nickerson, Campus Safety Officer

- Jessa Novak, Office Assistant, Albany County Campus
- James O'Halloran, Mechanic, Vehicle Maintenance
- Jason Ostrowski, Director, Residential Living & Student Conduct
- Peter Oswald, Grounds Assistant
- Marnie Ott, Technician, Financial Aid
- Patrick Pace, Campus Safety Officer

Erin Palmquist, Administrative Assistant, School of Math and Sciences

Angela Parks, Teacher, Children's Discovery Center

Justin Pendleton, Coordinator, GEAR UP

Jessica Perkins, Associate Teacher

- Sonya Perou, Teacher, Children's Discovery Center
- Susan Piper, Lead Technician, Payroll
- Melissa Plumley, Accounting Technician, Student Accounts/Sponsor Billing
- Brandon Poulliot, Specialist, Technical Support
- Allen Price, Academic Advisor
- Larry Pryor, Building Operations Specialist, Albany County Campus
- Karin Ouigley, Administrative Assistant, School of Outreach and Workforce Development
- Michael Randall, Web Designer
- Careen Read, Payroll Technician

Doug Redding, Custodian I

- Rebecca Reese, Senior Instructional Designer
- Karen Reynolds, Administrative Assistant, School of Arts and Humanities
- Tara Rood, Specialist, Human Resources (Recruitment & Hiring) Caroline Ross, Coordinator, Science Lab

Troy Rumpf, Writer / Project Coordinator,

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Virginia Ruckman, Academic Advisor

Brittany Russell, Interim Records

Jawnie Sanders, Administrative

Assistant, LCCC Foundation

Public Relations

Technician

- Danielle Saulsberry, Program Manager, Student Leadership and Involvement
- Jeremiah Saulsberry, Assistant Men's Basketball Coach/Coordinator, Athletics and Recreational Facilities
- Michael Sayers, Campus Safety Officer
- **Deloss Schaefer**, Maintenance Technician, Painting/Protective Coating
- John Schneider, Specialist, Systems and Technology Support
- Lacey Shandera, Technician, Financial Aid
- Samantha Sharrock, Admissions Representative
- Megan Shifflett, Athletic Trainer
- **Caron Shipley,** Program Director, Dental Hygiene
- Stacy Shultz-Bisset, Senior Graphic Designer
- Anne Siebert, Temporary Career Success Specialist
- Laura Sigsbury, Specialist, Technical Support
- James Slagle, Printing Technician
- **Gloria Smith,** Administrative Assistant, Public Relations
- Sarah Smith, Data Analyst, IR
- Crystal Smith, Career Resource Specialist
- Michael Smith, Photographer/ Videographer
- Lisa Snyder, Teacher, Children's Discovery Center
- Jacob Sones, Program Manager, Workforce & Professional Development

- Stephon Sorenson, Program Manager, Student Activities & Multicultural Engagement
- Caroline Soules, Assistant Registrar
- Linda Specht, Custodian I
- Jamie Spezzano, Director, Procurement and Contracting
- Tamara Stanford, Program Assistant/ Clinic Manager, Dental Hygiene
- Victoria Steel, Director, Grants & Special Projects
- Jeanine Steele, Career Specialist/ Case Manager
- Timothy Stevens, Maintenance Technician, Mechanical and Plumbing
- Tyler Stockton, Director, Public Relations
- Elizabeth Storer, Teacher, Children's Discovery Center
- Lewis Straw, Maintenance Technician, Mechanical
- Jennifer Strong, Teacher, Children's Discovery Center
- Rochelle Tate-Hassell, Custodian I
- Joshua Thein, Specialist, Promotions and Video Production
- Martha Thein, Program Manager, Partnership Diploma Program
- Jennifer Thompson, Executive Administrative Assistant, President's Office & Institutional Effectiveness Office
- Elisabeth Trimble, Director, Alumni Affairs & Event Planning
- Jasmine Varos, Program Assistant, Center for Secondary Students Russell Verhasselt, Custodian II

- David Vinatieri, Architectural Maintenance Technician
- **Richard Walsh,** Specialist, Systems and Technology Support
- Janet Webb, Coordinator, Institutional Projects
- Daniel Wells, Maintenance Technician, Electrical
- Dennis Wentroble, Coordinator, Custodial Services
- Karen Wentroble, Administrative Assistant, Residential Living
- Jodi Weppner, Coordinator, Justice Studies
- **Carrie Westling,** Director, Children's Discovery Center
- Bettina Wheeler, Technician, Student Records
- Ted Wickham, Network Manager
- Amanda Widup, Director, TRIO Student Support Services Project
- Andrew Wilburn, Academic Advisor Dawn Williams, Administrative Assistant, Nursing
- Julie Wilson, Director, Financial Aid
- Nicholas Wood, Maintenance Technician, Electrical
- Marvie Yarbrough, Program Assistant/ Interpreter, Disability Support Services
- **Stephanie Zamora**, Administrative Assistant, Student Planning and Success
- James Zell, Engineering Technician, Construction
- Jermyn Zink, Assistant Director, Physical Plant

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