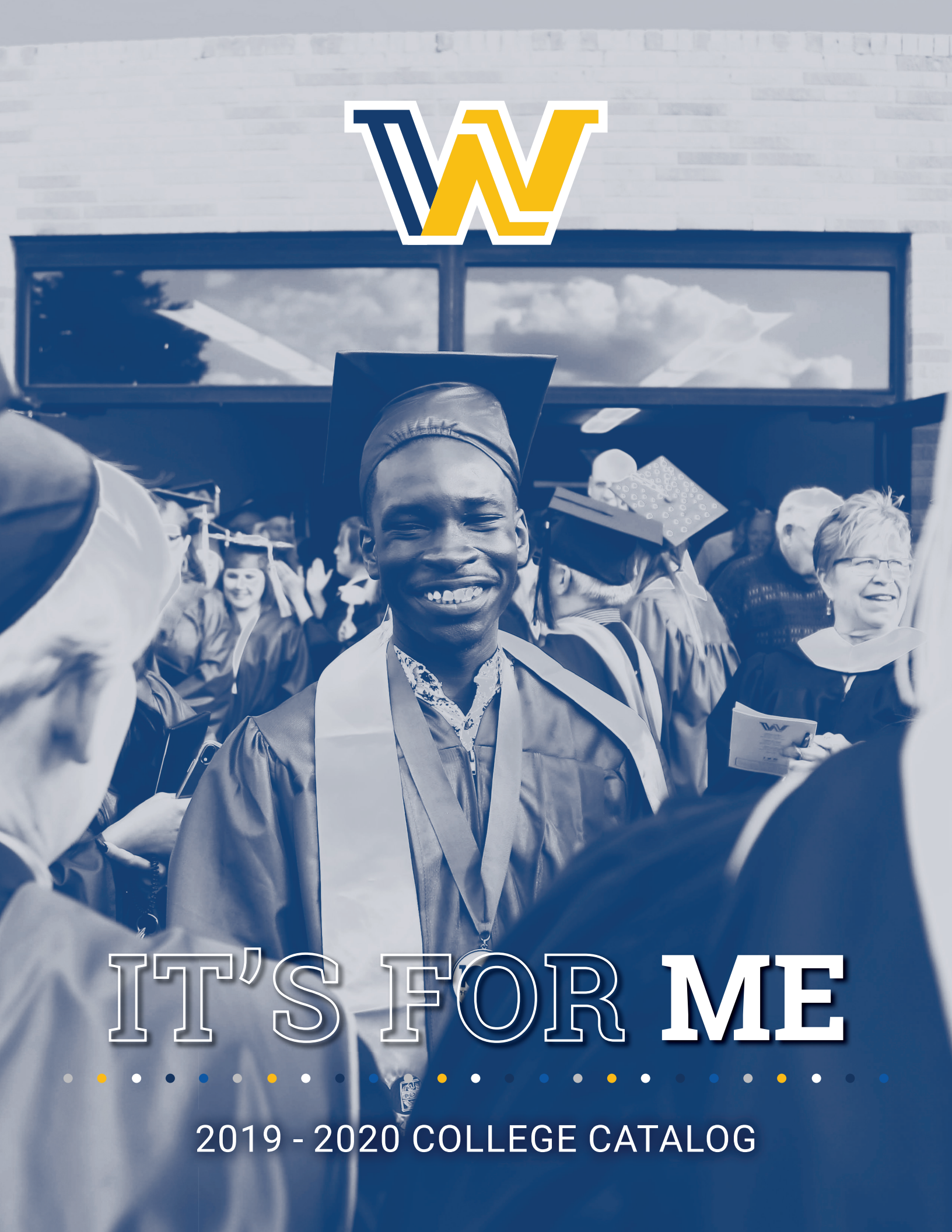

IT'S FOR ME

2019 - 2020 COLLEGE CATALOG

Western Nebraska Community College

VOLUME 68 *July 2019*

Alliance Campus
1750 Sweetwater Avenue
Alliance, NE 69301
p 308.763.2000
p 888.559.9622
f 308.763.2012

Scottsbluff Campus (main)
1601 27th Street
Scottsbluff, NE 69361
p 308.635.3606
p 800.348.4435
f 308.635.6100

Sidney Campus
371 College Drive
Sidney, NE 69162
p 308.254.5450
p 800.222.9682
f 308.254.7444

This catalog is a useful reference for the services, programs, opportunities, and policies at Western Nebraska Community College (WNCC). Although every effort is made to ensure the accuracy of this catalog, WNCC reserves the right to make changes in requirements, costs, curriculum, course structure and content, programs, and other policies and procedures. The most up-to-date version of the catalog may be found at **www.wncc.edu/academics/catalog-course-schedule.**

Western Nebraska Community College does not discriminate on the basis of race, color, religion, national origin, sex or gender, age, disability, marital status, military veteran status, sexual orientation, gender expression/identify, or political affiliation, in its policies, practices, and activities related to employment, admissions, educational services/programming, student services/activities, or financial aid as expressly prescribed by institutional policy, state, and federal laws, regulations, and executive orders. Inquiries concerning the application of these policies, laws, and/or regulations to the College may be directed to the College's compliance officer for the Civil Rights Act(s), Title IX of the Education Amendments of 1972, Americans with Disabilities Act(s), and Section 504 of the Rehabilitation Act of 1973: Chief Human Resources Officer, WNCC, 1601 East 27th Street, Scottsbluff, NE, 69363-1815, 308.635.6105 or to the Director, Office of Civil Rights, U.S. Department of Education, One Petticoat Lane, 1010 Walnut Street, Suite 320, Kansas City, MO, 64106-2106.

The Higher Learning Commission (HLC) accredits Western Nebraska Community College. Inquiries regarding WNCC accreditation may be directed to the HLC by letter at 30 North LaSalle Street, Suite 2400, Chicago, IL 60602-2504, or by phone at 312.263.0456.

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2019-20 Academic Calendar

Fall Semester 2019

August 2019

16 F ..... Last Day for New Students to Register for Fall 2019 Full-Term & 1st 8-Week Classes

18 Su ..... Last Day for Returning Students to Register Online for Fall 2019 Full-Term & 1st 8-Week Classes

19 M ..... Fall 2019 Full-Term & 1st 8-Week Classes Begin

19-21 M-W ..... No Penalty Drop/Add Period for 1st 8-Week Classes

19–23 M-F ..... No Penalty Drop/Add Period for Full-Term (16-week) Classes

September 2019

2 M ..... **COLLEGE CLOSED Labor Day**

18 W ..... Last Day to Withdraw from 1st 8-Week Classes

October 2019

7 M ..... 1st 8-Week Classes End

8 T ..... **FINALS for 1st 8-WEEK CLASSES**

9 W ..... Grades Due @ Midnight for 1st 8-Week Classes

Midterm for Fall 2019 Full-Term Classes (Classes Meet)

10-11 Th-F ..... **NO CLASSES Fall Break**

11 F ..... Last Day to Register for 2nd 8-Week Classes

14 M ..... 2nd 8-Week Classes Begin

14-16 M-W ..... No Penalty Drop/Add Period for 2nd 8-Week Classes

21 M ..... Spring 2020 Class Schedule Released

25 F ..... Last Day to Withdraw from Fall 2019 Full-Term Classes

28 – 31 (M – Th) ..... Advising Week

November 2019

1 (F) ..... Advising Week

7 Th ..... First Day to Register for Spring 2020 Classes

15 T ..... Last Day to Withdraw from from 2nd 8-Week Classes

27 W ..... **NO CLASSES COLLEGE CLOSES @ NOON**

28-29 Th-F ..... **COLLEGE CLOSED Thanksgiving Holiday**

December 2019

6 F ..... Fall Full-Term & 2nd 8-Week Classes End

9-13 M-F ..... **FINALS**

17 T ..... Grades Due @ Midnight

24-31 T-T ..... **COLLEGE CLOSED Winter Break**

Spring Semester 2020

January 2020

1 W ..... **COLLEGE CLOSED Winter Break**

10 F ..... Last Day for New Students to Register for Spring 2020 Full-Term & 1st 8-Week Classes

12 Su ..... Last Day for Returning Students to Register Online for Spring 2020 Full-Term & 1st 8-Week Classes

13 M ..... Spring 2020 Full-Term & 1st 8-Week Classes Begin

13-15 M-W ..... No Penalty Drop/Add Period for 1st 8-Week Classes

13-17 M-F ..... No Penalty Drop/Add Period for Full-Term (16-Week) Classes

February 2020

11 T ..... Last Day to Withdraw from 1st 8-Week Classes

March 2020

4 W ..... 1st 8-Week Classes End

5 Th ..... **FINALS for 1st 8-WEEK CLASSES**

6 F ..... Midterm for Spring 2020 Full-Term Classes (Classes Meet)

1st 8-Week Grades Due @ Midnight

9-13 M-F ..... **NO CLASSES Spring Break**

13 F ..... Last Day to Register for 2nd 8-Week Classes

16 M ..... 2nd 8-Week Classes Begin

16-18 M-W..... No Penalty Drop/Add Period for 2nd 8-Week Classes

23 M.....Summer and Fall 2020 Class Schedules Released

25 W ..... Last Day to Withdraw from Spring 2020 Full-Term Classes

30 & 31 (M & T) .....Advising Week

April 2020

1 – 3 (W – F).....Advising Week

6 M..... First Day to Register for Summer and Fall 2020 Classes

10 F ..... **COLLEGE CLOSED**

16 Th..... Last Day to Withdraw from 2nd 8-Week Classes

23 Th.....**NO CLASSES (Scottsbluff only) District Music Contest**

May 2020

1 F ..... Classes End for Spring 2020 (Full-Term and 2nd 8-Weeks)

4-8 M-F..... **FINALS**

9 Sa .....**2020 GRADUATION**

12 T.....Grades Due @ Midnight

22 F .....Last Day for New Students to Register for Summer 2020 Classes

25 M..... **COLLEGE CLOSED Memorial Day**

Last Day for Returning Students to Register Online for Summer 2020 Classes

Summer Session 2020

May 2020

26 T..... Summer 2020 8-, 10-, & 1st 5-Week Sessions Begin

26-28 T-Th .....No Penalty Drop/Add Period for 8-, 10- and 1st 5-Week Summer Classes

June 2020

12 F.....Last Day to Withdraw from 1st 5-Week Session

24 W ..... 1st 5-Week Session Ends

25-26 Th F.....**Finals for 1st 5-Week Session**

26 F.....Last Day to Withdraw from 8-Week Session

29 M .....2nd 5-Week Session Begins

29-30 M-T .....No Penalty Drop/Add for 2nd 5-Week Summer Classes

30 T..... Grades Due at Midnight for 1st 5-Week Session

July 2020

1 M .....No Penalty Drop/Add for 2nd 5-Week Summer Classes

3 F..... **COLLEGE CLOSED Independence Day Holiday**

6 M .....Last Day to Withdraw from 10-Week Session

15 W..... End 8-Week Session

16-17 Th F..... **FINALS for 8-Week Session**

17 F.....Last Day to Withdraw from 2nd 5-Week Courses

21 T..... Grades Due at Midnight for 8-Week Session

29 Th..... 10-Week and 2nd 5-Week Sessions End

30-31 Th F.....**FINALS for 10-Week and 2nd 5-Week Sessions**

August 2020

4 T..... Grades Due at Midnight for 10–Week and 2nd 5-Week Sessions

Calendar dates are subject to change, and may be found at www.wncc.edu/academics/academic-calendar

College Information

Mission, Vision, and Philosophy

Mission Statement

WNCC assures learning opportunities for all – enriching lives, invigorating communities, creating futures.

~Adopted by the WNCC Board of Governors 2017

Vision Statement

The following was developed to provide future vision and direction for Western Nebraska Community College:

"To positively impact the education and well-being of every students, employer, and community member in the Nebraska Panhandle region."

~Adopted by the WNCC Board of Governors 2017

Philosophy

Western Nebraska Community College is a comprehensive community college committed to serving the residents of western Nebraska with higher education and lifelong learning opportunities. The faculty, staff, and Board of Governors seek to provide leadership in education while responding to the identified needs of area residents by providing high quality educational programs and support services accessible to all who can benefit from them. In fulfilling our role and mission, we subscribe to the following philosophy:

- Belief in the inherent right of every person to an opportunity for education commensurate with the individual's potential and interest. We offer a comprehensive program, which includes academic and technical courses, as well as general education for transfer to a baccalaureate-granting institution or preparation for entry to the job market.
- Responsibility for providing an environment that offers opportunities for developing quality in academic, technical, and vocational disciplines. We are committed to helping students clarify goals by improving skills and providing guidance, encouragement, and assistance in a positive atmosphere fostering personal growth and social responsibility.
- Commitment to lifelong learning. We provide area business and industry with vocational training for skilled employment, which encompasses in-service/pre-service training in addition to basic skills, continuing education and vocational interests.
- Awareness of the changing role of education. We are prepared to make adjustments in the curriculum and services to meet the diverse, unique needs of students.

Role

"Western Nebraska Community College shall be a student centered, open access institution primarily devoted to quality instruction and public service, providing counseling and other student services intended to promote the success of a diverse student population, particularly those who have been traditionally under served in other educational settings.

Western Nebraska Community College, individually and collectively, shall provide the following instructional and service priorities:

Applied Technology Education

Including Associate of Applied Science degrees (AAS), Associate Degree Nursing (AD-N), diplomas, certificates, and coursework to qualify individuals for entry into employment or to enable individuals to remain current, to upgrade skills, or to acquire new skills.

Transfer Education

Including liberal arts and sciences associate degrees (AA AS, and AFA) comprising of coursework which is comparable to the coursework of the first two years of a bachelor's degree program and applied technology degrees comprising coursework which may be applicable to the coursework of the first two years of a bachelor's degree program.

Developmental Education

Including remedial programs, developmental programs, Adult Education (AE), General Education Development (GED) preparation, English Literacy Programs (ELP), and refresher courses.

Adult Continuing Education

Including career related programs and services for professional certification or improvement, Economic and Community Development including customized training programs developed for businesses and communities to meet needs such as occupational assessment, job training and job upgrading, and other programs and services that are within the scope of the College's expertise.

Public Service

Including vocational and personal development courses and activities not specifically identified in other priorities.

Applied Research

Limited to the enhancement of the instructional programs, student achievement, institutional effectiveness, and public service activities or related to faculty professional development."

~Passed by Ninety-Third Legislature, Nebraska 1993 (LB 263).

Institutional Statement of Values

The Board, faculty, and staff of the College commit to acting according to the following values, which are essential to maintaining the integrity and vitality of the College community. All citizens of the College community shall be treated with care and respect. The College is an environment where people are treated fairly and given equal opportunities.

Lifelong Learning – At WNCC, student learning is our primary focus. This is accomplished through excellence in teaching for our students and ongoing professional development of our employees. We strive to help all of our stakeholders, both inside and outside the organization, continuously expand learning to improve their success.

Student and Community Service – We consider our students and community stakeholders as our constituents and responding to their diverse need is what we strive to accomplish. Student success and positive contribution to our communities are at the forefront of every WNCC activity.

Honesty, Integrity, and Transparency – We believe that academic and personal honesty are essential elements in WNCC's learning environment and that employees and students must at all times speak and act truthfully and with integrity. Information is accessible and decision-making is open and participative.

Collaboration and Communication – Recognizing that we do not stand-alone and that our actions impact others, we resolve to actively listen, engage in conversation, build consensus, resolve conflict, and disseminate information in a timely fashion. We believe teamwork and participation leads to engaged employees and better decisions.

Innovation and Continuous Improvement – WNCC understands the importance of embracing change in order to stay current and relevant. Exploring Creative strategies and solutions and utilizing new technologies, practices, and procedures is encouraged for our employees as this better prepared our students for their success in pursuing their academic and career pathways.

Respect for All People and Perspectives – WNCC deeply cares about all of its stakeholders and believes that showing kindness, understanding, and a respect for the diversity of others are fundamental elements of our culture. Differences are accepted and appreciated, and everyone plays an important role in the College.

~Adopted by the WNCC Board of Governors 2017

Accreditation & Institutional Memberships

The Higher Learning Commission (HLC) accredits Western Nebraska Community College. Inquiries regarding WNCC accreditation may be directed to the HLC by letter at 30 North LaSalle Street, Suite 2400, Chicago, IL 60602-2504; or by phone at 312.263.0456 or 800.621.7440.

Individual programs may be certified or accredited by other professional associations in addition to the Higher Learning Commission.

Primary Memberships

WNCC's primary memberships are to the

- American Association of Community Colleges
- League for Innovation in the Community College
- National League for Nursing
- Nebraska Community College Association

A complete listing of institutional memberships may be obtained from the WNCC Business Office.

College Locale

Located in the Panhandle of western Nebraska, WNCC serves 12 and one half counties with three campus locations in Scottsbluff (main), Alliance, and Sidney. All three campuses are located near recreation areas for both summer and winter activities. Winter activities are just a few hours away in the Wyoming and Colorado Rocky Mountains. Summer activities can also be found in these areas as well as in Nebraska's Chadron State Park, Lake Minatare and Lake McConaughy, and historic Fort Robinson, or by traveling to the Black Hills of South Dakota. Hunting and fishing abound all year-round.

College Organization

Western Nebraska Community College is organized into five major areas: Administrative Services, Educational Services, Human Resources, Public Relations and Marketing, and Student Services. While each area boasts

its own unique characteristics, the staff, faculty, and administrators work cooperatively across divisions to provide the widest range of programs and services to the students and campus community.

Administrative Services

The Administrative Services component of the College provides comprehensive auxiliary services to enhance the students' college experience. While sometimes viewed as behind-the-scenes operations, these activities help to ensure the smooth daily operation of WNCC buildings and grounds. The business office (accounts payable, accounts receivable, and cashier), maintenance and grounds, safety and security, parking, facilities reservations, information center, and hazardous materials management comprise the functions supported by Administrative Services.

Educational Services

Educational Services is divided into five academic divisions: Academic Enrichment, Language, and Fine Arts; Business and Applied Technology; Health Sciences; Math and Science; and Social Sciences and Human Performances. Issues regarding curriculum development, administration, dual credit, class offerings, faculty/program evaluation, and student learning are primary focuses for Educational Services. In addition, this branch includes writing and math centers; faculty teaching and learning support; library services; testing and tutoring; adult education; high school partnerships; and online and distance learning.

Student Services

Student Services offers a broad array of co-curricular programs and experiences to provide students with opportunities for academic enrichment, personal growth, and development. Student Services includes: admissions, career services, childcare assistance, Cougar Bookstore, counseling, Dean of Students, disability services, financial aid, food services (Bishop Dining Hall and catering), intercollegiate athletics, international student support services, intramurals, judicial/conduct issues, orientation, placement testing, registration and records, residence life, student activities, student diversity programs, student outreach, student organizations, Student Support Services (TRIO), student transfer advising, and Veterans Upward Bound (TRIO)/Military Veterans Affairs.

Intercollegiate Athletics provides students the opportunity to participate in men's baseball, men and women's basketball, men and women's soccer, women's softball, and women's volleyball.

Additional Departments

Additional areas contribute to the multidimensional environment at Western Nebraska Community College. The Human Resources Office maintains the personnel activities and safety issues, and the Public Relations and Marketing Department promotes the College's programs, services, and events to the public.

Advisory Committees

Western Nebraska Community College is proud of its business and vocational programs both on and off the campus. These programs are growing in scope and popularity primarily because they are relevant to student and area employer needs.

The success of these programs is due, in large part, to the knowledge and energy given to the programs by the advisory committees. These industry-driven committees work with the staff and faculty to make the programs practical and meaningful. The committees assist the College in determining regional and student needs, defining objectives, developing program content and serving as liaisons for student placement in internships and employment.

The following advisory committees are currently assisting WNCC:

Committee (with Contact)

- *Applied Agriculture* (Charlie Gregory)
- *Automotive Technology* (Aaron Gayman)
- *Aviation* (Jon Leever)
- *Business & Info Technology* (Aletia Norwood)
- *Collision Repair & Refinish Technology* (Corey Batt)
- *Criminal Justice* (Tiffany Wasserberger)
- *Early Childhood Education* (Pasty Yager)
- *Emergency Medical Services* (Ken Boston)
- *Health Information Technology* (Nicole Danielzuk)
- *Medical Laboratory Technician* (Mwafaq Haji)
- *Nursing* (Rebecca Kautz)
- *Human Services* (Carrie Howton)
- *Perkins Advisory Committee* (Charlie Gregory)
- *Powerline Construction & Maintenance Technology* (Ed Salazar)
- *Surgical Technology* (Marcene Elwell)
- *Welding* (Russ Pontarolo)

College Personnel

WCCA College Board Members

Western Nebraska Community College's Board of Governors' is comprised of 11 elected members. The members represent five districts, with one member serving at large. The Board governs the College, sets policy, approves the budget, and sets the local College tax levy.

District One

Merlyn L. Gramberg
Board Member

Kimberly A. Marcy
Board Member

District Two

F. Lynne Klemke
Board Chairperson

R. J. Savely, Jr.
Board Member

District Three

Allan D. Kreman
Board Member

Richard G. Stickney
Board Vice Chairperson

District Four

Karen S. Anderson
Board Member

Coral E. Richards
Board Member

District Five

William M. Packard
Board Member

Linda A. Guzman-Gonzales
Board Member

At-Large

M. Thomas Perkins
Board Member

Appointed (Ex-Officio)

William D. Knapper, *Board Treasurer*

Susan Verbeck, *Interim Board Secretary*

Faculty Representatives (2)

Student Representative

Administration

John Harms.....Interim President

John Marrin .....Interim Executive Vice President (CAO)

Bill Knapper.....Vice President for Administrative Services (CFO)

Lynne Koski.....Vice President for Finance

Nina Grant .....Vice President for Student Services

Kathy Ault.....Human Resources Executive Director

Administrative Services

Dave Koehler.....Accounting Services Director

Educational Services

Hallie Feil.....Dean of Instruction

Charlie Gregory.....Dean of Instruction and Workforce Development

Ellen Dillon.....Associate Dean of Instructional Services

Patrick Fortney .....Associate Dean of Instruction

Paula Abbott.....Sidney Campus Executive Director

Joe Deer ..... Information Technology Director

Nino Kalatozi .....Institutional Effectiveness Director

Tammie Kleich .... Academic Teaching & Tutoring Director

Doug Mader.....Workforce Development Director

Julie Newman..... CollegeNOW Director

Jackie Smith..... Alliance Campus Director

Luke Stobel..... Student Success & Retention Director

Lori Stromberg.....Lifelong Learning Director

Mary Kay Versen... GED & Adult Basic Education Director

Amy Wisniewski .....Teaching, Learning, & Assessment Director

PR & Marketing

Allison Judy..... Public Relations & Marketing Director

Student Services

Norman Coley, Jr. ..... Dean of Students & TRIO Director

Cathy Bornschlegl .....Food Service Director

Molly Bonuchi .....Residence Life Director

Ryan Burgner.....Athletic Director

Brynn Elliott.....Assistant Dean of Students

Gretchen Foster.....Admissions Director

Maricia Guzman .....Multicultural & Inclusion Director

Tonya Hergenrader ..Career Pathways & Advising Director

Roger Hovey .....Registrar

Sheila Johns.....Financial Aid Director

Rich Riddick.....Bookstore Operations Director

Norm Stephenson.....Counseling Director/ Disability Services Officer

Megan Wescoat .....Student Engagement Director

Division Chairs

Jacklyn Cawiezel...Social Sciences & Human Performance

Marcene Elwell .....Health Sciences

Dan Joppa .....Applied Technology

Aletia Norwood.....Business & IT

Jennifer Pedersen..... Academic Enrichment, Language, & Fine Arts

Amy Winters .....Mathematics & Science

Faculty (by division)

Academic Enrichment, Language, and Fine Arts

Deb Carpenter-Nolting ..... English
Brian Croft ..... English
Susan Dickinson ..... Foundations, ESL, & English
Robin Hayhurst..... Foundations & Professional Education
Nat Johnson ..... Music (Instrumental Music Director)
Yelena Khanevskaya ..... Art
Francesca Mintowt-Czyz ..... Theatre
Patrick Newell ..... Music (Vocal Music Director)
Jennifer Pedersen ..... English
William Sheffield ..... Speech & Forensics
Robynn Whittier ..... English
Stacy Wilson ..... Foreign Languages
Amy Wisniewski ..... Foundations & English

Business and Applied Technology

Corey Batt ..... Collision Repair & Refinish Technology
Andrew Gayman ..... Automotive Technology
Jeanette Johnson ..... Business/Office Technology
Dan Joppa ..... Technical Studies
Jane Kelley ..... Accounting
John Leever ..... Aviation
William Loring ..... Information Technology
Michael Mitchell ..... Aviation
Aletia Norwood ..... Accounting & Business
Russell Pontarolo ..... Technical Studies
Frank Riley ..... Automotive Technology
Ed Salazar ..... Powerline Technology
Bill Spurgeon ..... Information Technology
Scott Winters ..... Business

Health Sciences

Ken Boston ..... Emergency Medical Services (Program Director)
Jessica Brumbaugh ..... Nursing
Jordan Colwell ..... Nursing
Nicole Danielzuk ..... Health Information Mgt. Systems (Program Director)
Kelly Dean ..... Nursing
Marcene Elwell ..... Surgical Technology (Program Director)
Karalea Fisher ..... Health Information Mgt. Systems
Mwafaq Haji ..... Medical Laboratory Technician (Program Director)
Amber Jacoby ..... Nursing
Janice Judy ..... Nursing
Becky Kautz ..... Nursing (Program Director)
Erica Muhr ..... Nursing
Jennifer Seiler ..... Nursing
Sherri Yorges ..... Nursing (BNA/Medaid Program Director)
Pamela Zitterkopf ..... Nursing

Math and Science

Erandi Gunapala ..... Mathematics
William Hanson ..... Biology
Lorin King ..... Sciences
Andrew Lenzen ..... Mathematics
Dave Nash ..... Biology
Dave Nelson ..... Chemistry
Tracy O'Neal ..... Biology
Nancy Resseguie ..... Mathematics
Tom Robinson ..... Mathematics
Scott Schaub ..... Mathematics & Engineering
Gus Seminario ..... Mathematics & Engineering
Andrew Shiers ..... Mathematics
Harishchandra Subedi ..... Chemistry
Amy Winters ..... Mathematics

Social Science and Human Performance

Royce Ammon ..... Social Sciences
Jacklyn Cawiezel ..... Psychology
Colin Croft ..... Social Sciences & Humanities
Carrie Howton ..... Human Services & Psychology
Doug Jones ..... Athletic Training
Mike Jones ..... Physical Education
Carolyn F. Pevey ..... Sociology
Tiffany Wasserburger ..... Criminal Justice
Patsy Yager ..... Early Childhood Education

Libraries

Deb Kildow ..... General Services Librarian
Allison Reisig ..... Technical Services Librarian

Academic & Student Support Services

Blackboard Learn & Collaborate

Blackboard Learn is a Web-based course management system designed to allow students and faculty to participate in classes delivered online or to share online materials and activities to complement face-to-face teaching and learning. Blackboard Learn enables instructors to provide students with course materials, discussion boards, virtual chat, online quizzes and lectures, and more. Blackboard Collaborate is a webinar system that allows students to connect real-time to a class from home. Students will utilize Blackboard Learn & Collaborate throughout their enrollment at WNCC.

Bookstore

The Cougar Bookstore is operated by WNCC on the Scottsbluff campus.

New and used books are sold at the beginning of each semester and can be delivered to the Alliance and Scottsbluff campuses.

Books may also be purchased online at **wncc.edu/student-life/bookstore**. If the text is to be used again, books are purchased at the end of each semester for resale. General merchandise is also sold in the bookstore and online at **wncc.edu/student-life/bookstore** such as art supplies, school supplies, novelties, greeting cards, and College apparel.

Career Pathways & Advising Center

The staff of the Career Pathways and Advising Center are committed to providing academic advising and career resources that promote knowledge of self, career exploration, and job search skills. The center empowers students to make decisions, develop a plan, and achieve academic and career goals as part of a life-long process.

Services available through the center include:

- career exploration and academic navigation
- career screening assessment and interpretation of results
- career development services, for students and alumni
- job application, resume, cover letter, and interview assistance
- occupational salary, outlook, availability, and training information
- online posting of job opportunities
- connections with employers, internships, and job shadowing opportunities

The Career Pathways and Advising Center is located on the Scottsbluff campus but serves all locations and all students, including CollegeNOW! students. In Alliance, career assistance resources are located in the administrative area; in Sidney, the resources are located in the library. Students from Alliance and Sidney can also contact the center for phone, Skype, or in-person appointments.

Counseling Services

Wellness is a way of life, a positive state of mind. It is a lifestyle that maximizes human potential. Wellness involves striving for growth—socially, physically, emotionally, intellectually, spiritually, and in a career. The WNCC Counseling Services Office strives to help students achieve their highest potential. The counselor provides short-term counseling services to all students upon request and at no additional charge. The counselors and advisors in the Student Life and Engagement Center are available to discuss personal, academic, and career questions or problems. All counselors and advisors are committed to providing students with the opportunity for a successful educational experience at WNCC.

Personal Counseling

The Counseling Services Officer serves as a comprehensive resource for the personal growth and life skills development of students. Personal counseling is available to students on all three campuses, by appointment, to discuss concerns about school, relationships, parents, gender issues, substance use and abuse, divorce, or other personal issues. An experienced professional counselor offers assistance in a variety of personal development areas, such as stress management, acquaintance rape education, wellness education, and improved self-image.

Disability Services

Western Nebraska Community College is committed to providing support for all students so that they may achieve their academic potential. Services are provided to give students with disabilities an equal opportunity for success. Students with disabilities may enroll in regular courses and participate fully in the services and activities of the College.

Students requiring or requesting assistance must contact the WNCC Counseling Director at 308.635.6090. Documentation verifying a student's disability is required in order to make reasonable accommodations in the classroom and residence halls. Such documentation must

be provided by a qualified health professional and must indicate the applicable diagnosis, must describe the impact of the disability on academic performance, and must support the need for the requested accommodations.

Copies of the policies and procedures for Disability Services are available from the Counseling Director; the Student Services Offices in Alliance, Scottsbluff, and Sidney; and by accessing the WNCC website.

eHelp Center

libguides.wncc.edu/ehelp

The eHelp Center assists students, staff, and faculty with access and basic technical problems using the WNCC portal, WNCC e-mail, and Blackboard. The eHelp Center is located in the Library on the Scottsbluff campus, but assistance is available by phone, chat, text, or through an ever-expanding online knowledge base on the eHelp center website.

Please contact eHelp by phone at 308.635.6071, by email at **ehelp@wncc.edu**, or by text at 308.225.5015.

Housing & Dining Services

On the Scottsbluff campus, WNCC operates two on-campus residence facilities: Pioneer Hall, which offers accommodations for 160 single students and Conestoga Hall, which offers housing for 148 single students. In addition to traditional living amenities, both facilities offer students a great place to study, network, make friendships, get involved, learn a new culture, and participate in student activities.

All students living in Pioneer Hall and Conestoga Hall are required to participate in a 19- or 14-meal plan program. Meal plans include two components to ensure flexible and fulfilling options: all-you-care-to-eat meals and Cougar Dollars. Cougar Dollars may be used to purchase a meal for visiting family or friends in the Bishop Dining Hall. Additional funds may be added to Cougar Dollars at any time. Meal options are also available for students living off-campus.

While the Alliance campus does not offer on-campus housing, the Chamber of Commerce has information regarding available rooms and apartments. On the Sidney campus, WNCC operates two housing units that accommodate 24 students. Neither regional campus provides dining services.

For more information about housing at WNCC and to find an application, please go to **wncc.edu/student-life/residence-life**. Information about dining services can be found at **wncc.edu/student-life/dining-on-campus**.

On all campuses, WNCC is not responsible for off-campus housing.

Immunization Policy

With the continued growth of WNCC, there is an increasing population of domestic and international students residing in campus housing. The College believes it is in the best interest of students, faculty, and staff to adopt a proactive stance concerning student immunizations.

The following recommendations are based on CDC (**cdc.gov**) and the American College Health Association (**acha.org**) guidelines:

WNCC **REQUIRES** proof of childhood immunizations for students applying to reside in on-campus housing, including:

- Polio series
- DPT series plus appropriate boosters
- Two MMRs or proof of titer
- Hepatitis B titer demonstrating proof of immunity
- Meningococcal tetravalent injection

For all international students, a TB test is also required.

Students may also want to consider the following optional vaccinations:

- Varicella (Chicken pox)
- Flu and Pneumonia
- Human Papillomavirus (HPV)

Student Health Statement

Each residence life student is requested to submit a self-reported medical history at the time of initial enrollment. It is further requested that the student update his or her medical history each semester if there is a change in any health-related condition.

Identification Card

The Student Services Offices in Scottsbluff, Alliance, and Sidney issue WNCC ID cards at the beginning of each semester. Identification cards are required for meal plan usage (no exceptions) and admittance to College activities such as athletic events, dances, etc. Charges for activities are set individually, but the ID card often provides no-charge or a reduced admission rate. In Scottsbluff, the Road Runner Bus is free with a valid ID card. The ID in Sidney also allows access to the Cheyenne County Community Center.

Library

libguides.wncc.edu/library

The WNCC Library is located in the Harms Building on the main campus in Scottsbluff with a branch location on the Sidney campus. There are also selected library resources available on the Alliance campus.

Librarians in the WNCC Library on the Scottsbluff campus are available to assist students with research needs and using the library's resources. Support is also available by email, chat, SMS text messaging, and phone.

The WNCC Library offers a large selection of electronic and print resources that support the curriculum, student learning, and our online learners. Off-campus access is available to current students, faculty, and staff. The libraries on both the Scottsbluff and Sidney campuses are also open to the public. A free charging station for charging cell phones, tablets and other electronic devices is available for use at the Scottsbluff campus library.

Library materials can be searched and accessed through the library web page at **libguides.wncc.edu/library**. The library also offers magazines, newspapers, audio books and DVD's, as well as laptop and tablet computers, that are available for student, faculty, and staff check out. Interlibrary loan is available to students, faculty, and staff for items not found in the library collection. Laptop computers are available for checkout in the Library on the Scottsbluff campus. The libraries in Scottsbluff and Sidney have computer labs that offer a range of software as well as printing. Quiet study is encouraged throughout the library.

Education Success Center

The Education Success Center (ESC) is located within the Sidney campus library. The ESC provides academic support services outside of the classroom setting.

Tutoring Assistance

Free tutoring services are available to all WNCC students. Professional and student tutors provide assistance on an appointment basis. Study groups are also highly recommended. Services are open to all students, regardless of their educational abilities and experiences.

For more information, please email the library at **library@wncc.edu**, call 308.635.6068, or text 308.225.5015.

Military and Veterans Affairs Office

The Military and Veterans Affairs Office at WNCC is the certification site for Veterans Administration educational benefits including:

- Montgomery G.I. Bill (Chapter 30)
- Vocational Rehabilitation (Chapter 31)
- Post 9/11 G.I. Bill (Chapter 33)
- Dependents Benefits (Chapter 35)
- Veterans Opportunity to Work (VOW)
- Hire Heroes Act of 2011 (VRAP)
- National Guard and Reservists (1606 and 1607)
- MyCAA Program (active duty military spouses)

The office also supports the Student Veterans Organization and works in conjunction with TRIO Veterans Upward Bound Program.

All military connected students and family members are encouraged to visit the office. Please go to **wncc.edu/student-life/student-services/military-veterans-services** or call 308.635.6042 for more information.

New Student Orientation

New Student Orientation is held prior to the beginning of spring and fall classes for all new transfer and incoming students. The orientation is an exciting experience that gets students ready for both in class and out of classroom experiences. New students meet current students, staff, and faculty and begin long-lasting friendships. New Student Orientation helps students navigate the campus and introduces them to the resources they need to make informed decisions about majors, financial aid, books, student support services, housing, graduation, and student organizations. For more information, please contact **orientation@wncc.edu**.

Student Accounts

The Business Office offers payment plan options to help students pay for their educational costs. Please see **www.wncc.edu/admissions-aid/tuition-fees/index** for more information about the cost of attendance. It is expected that students who take advantage of a payment plan will follow up on all payment arrangements and ensure that the funds are applied to the costs of education.

Students may access their student account information 24 hours a day, seven days a week by logging into the **myWNCC** portal under self-service. Payments can be made online by credit card.

Non-Payment

When a student has a past due account, he or she may be in jeopardy of being withdrawn from current classes and a hold will be placed on his or her account to prevent future enrollment, living in College housing, obtaining a transcript, or graduating. A student will be notified by the Office of the Registrar via his or her WNCC email if any actions are taken regarding registration. A student must confirm the status of his or her registration and keep attending class unless notified otherwise.

Questions regarding the status of registration and verification if an administrative withdrawal for non-payment has occurred should be directed to the Office of the Registrar at 308.635.6012.

When a student is withdrawn for nonpayment, the account is still due in full and may be sent to collection. A

student is responsible for all fees associated with collection and is not relinquished from his or her financial responsibilities.

If there are issues with paying tuition, fees, or charges, students should first contact the WNCC Business Office at 308.635.6020. Other offices of potential support are the Financial Aid Office at 308.635.6011 and the Office of the Dean of Students at 308.635.6050.

Student Activities and Organizations

Many of the most beneficial experiences and lasting impressions in college are those acquired in co-curricular activities. Student activities programs at WNCC are varied in order to appeal to the interests and meet the needs of all students. Some student organizations are primarily social, while others are academic, professional, recreational, or service oriented. Opportunities exist to develop students' leadership skills, and programs such as intramural sports give students the opportunity to enjoy familiar sports with new friends. There are opportunities to meet any student need!

Any student activity must have the approval of the campus administration and be sponsored by a member of the faculty or staff. Faculty, staff, and students are invited to attend and participate in these programs.

Student organizations at WNCC may vary from year-to-year in accordance with changes in student interests and needs. Detailed descriptions of student organizations can be found in the *Student Handbook* or at **wncc.edu/student-life/get-involved/index**.

Student Health and Insurance

WNCC does not provide medical, hospital, or surgical services. The College, likewise, assumes no responsibility for students who are injured when taking part in intramural sports, physical activity courses, class activities, or student activities.

It is the responsibility of students to provide their own health and accident insurance, as well as insurance on personal items in student housing if so desired. The College does not carry such insurance. Although the College does not endorse any particular company, the College attempts to offer the option of student health insurance each semester. Application forms and a statement of coverage and costs are available in the Student Services Office.

Support for Transferring Students

Transfer of Credits to Other Colleges

WNCC makes every effort to assist students wishing to transfer to other colleges and universities. The generally accepted requirements for transfer to another institution include a minimum of "C" grades in coursework and a program taken at WNCC that corresponds with the program at the institution to which the student is transferring. The student works with a faculty advisor and transfer advisor to plan a course of study that enables the student to meet the requirements of the four-year institution. Most four-year institutions recommend that the student complete general educational requirements and lower division courses at the community college level.

Transfer Advising

A transfer advisor is available to assist students who are planning to transfer to a four-year or other institution. Transfer advisor can provide information regarding transfer procedures and deadlines, contact people at the receiving institution, applications, catalogs, and other general information. Transfer advisor can assist the student in selecting an institution and coursework necessary to transfer to that institution. It is strongly recommended that students meet with a transfer advisor as early as their first semester of enrollment at WNCC. Again, students who transfer before graduating will be encouraged to complete their degree by utilizing the Reverse Transfer program. Students can also use resources such as **transferology.com** or **transfer.nebraska.edu** to search for course equivalencies to transfer institutions.

Testing and IT Certifications

WNCC offers a wide range of computer-based pre-professional and professional tests. Examples of computer-based tests include the Nebraska Real Estate exam, Microsoft, Office Specialist and Expert certifications, GRE, PRAXIS, CPA, EMT, and many other information technology, financial, medical, and technical trade certifications.

For further information about these tests, contact the Academic Testing and Tutoring (AT&T) Coordinator at 308.635.6070.

In addition, a professional testing center is located at the John N. Harms Center for information technology certifications. This makes it possible for information technology students to take industry certification exams at the completion of specific courses. Certifications are internationally recognized and reflect a student's ability to troubleshoot and maintain the latest technologies.

For further information on any computer-based testing opportunities, contact the John N. Harms Center at 308.635.6700.

Transcript Requests

Students are able to access an unofficial academic history of their courses and grades at any time through their online portal. To request official transcripts, go to **wncc.edu/academics/registrar/request-transcript** and follow the instructions. In most cases, the transcripts are sent electronically and a fee applies. No transcript is released until all financial obligations to the College have been satisfied. Transcripts are processed within one or two business days for students who submit the requested information.

TRIO Programs

TRIO programs are federally funded under Title IV of the Higher Education Act of 1965. Student financial aid programs help students overcome financial barriers to higher education, but TRIO Programs are educational opportunity programs that help students overcome class, social, and cultural barriers to postsecondary education. The programs are designed to assist qualified college students, high school students, and military veterans.

TRIO Student Support Services helps qualified college students persist toward completion of a certificate, diploma or associates degree, and encourages transfer and four-year college graduation.

For more information about the TRIO SSS program, visit **wncc.edu/student-life/student-services/trio-sss**.

TRIO Veterans Upward Bound program provides academic, career, and financial assistance to qualified veterans at no cost.

For more information visit **wncc.edu/student-life/student-services/military-veterans-services**.

Student Rights & Responsibilities

Academic Integrity Policy

Academic integrity forms a fundamental bond of trust between colleagues, peers, teachers, and students, and it underlies all genuine learning. At WNCC, there is no tolerance for plagiarism or academic dishonesty in **any** form, including unacknowledged "borrowing" of proprietary material, copying answers or papers, using crib sheets, unauthorized help during exams, altering tests, or passing off someone else's work as one's own. A student can be accused of an academic integrity policy violation by an instructor, staff member, or another student(s).

A breach of ethics or act of dishonesty can result in:

- failure of graded material (including but not limited to an assignment, paper, project, quiz, or an exam within a course)(instructor level)
- failure of an entire course (institutional-level)
- suspension or expulsion from the College (institutional-level)

Any form of academic dishonesty represents a grave breach of personal integrity and of the rules governing WNCC's community of learners. **Academic dishonesty includes, but is not limited to**:

- cheating in any form
- plagiarizing in any form
- aiding someone else in cheating or plagiarizing

Consumer Information

The Higher Education Act of 1965, as amended by the Higher Education Opportunity Act of 2008, requires all accredited colleges and universities to disclose such information to current and prospective students, employees, and members of the public. This includes specific information about student financial aid, campus security, student outcomes and rights and responsibilities. This information can be found at **wncc.edu/about-wncc/consumer-information**.

Copyright Information

WNCC is committed to the education of its students and endeavors to make students aware of the policies that govern the use of printed and online materials. In general, copyright infringement occurs when a person makes a copy of any copyrighted work, such as music, video, software, cartoons, photographs, stories, or novels, without permission (i.e., a license) from the copyright owner and without falling within the specific exceptions provided for under the copyright laws. Employees and students are prohibited from using WNCC's network to access, download, upload, or otherwise share copyrighted materials without permission, making a fair use, or falling under another exception under copyright law.

Drug and Alcohol Policy

WNCC policy prohibits the unlawful possession, use, or distribution of illicit drugs and/or alcohol by students and employees on College property or as a part of any College activities. Any student or employee of the College who violates this policy is subject to disciplinary action. State and federal laws and any applicable city ordinances pertaining to the possession and use of alcoholic beverages and illicit drugs shall also be enforced.

In addition, WNCC publishes information pursuant to the Drug-Free School and Community Act (DFSCA) outlining the College's efforts under the act. The DFSCA material addresses standards of conduct; legal prohibitions and sanctions; health risks of drug and alcohol use; disciplinary actions; and drug and alcohol services.

These materials are accessible on the WNCC website at: **wncc.edu/about-wncc/consumer-information.**

Family Educational Rights & Privacy Act (FERPA)

It is the policy of WNCC to comply with the Family Educational Rights and Privacy Act (FERPA) of 1974 as amended by the Higher Education Amendments of 1998 (34 CFR Part 99). FERPA affords eligible students certain rights with respect to their education records. (An "eligible student" under FERPA is a student who is 18 years of age or older or who attends a postsecondary institution at any age.)

The law provides three fundamental rights to students who attend post-secondary institutions:

- Right to inspect and review education records
- Right to request amendment of education records
- Right to limit disclosure of "personally identifiable information" contained in education records

Additionally, students have the right to file a complaint with the U.S. Department of Education:

Family Policy and Compliance Office
U.S. Department of Education
4000 Maryland Avenue, SW
Washington, DC 20202-4605

In compliance with FERPA, the following items are considered directory information:

1. Student's name
2. Address
3. Telephone listing
4. Email address
5. Date and place of birth
6. Major field of study
7. Enrollment status (e.g., undergraduate or graduate; full-time or part-time)
8. Grade level
9. Dates of attendance
10. Degrees, honors, and awards
11. Most recent previous educational agency attended or institution attended
12. Participation in officially recognized activities and sports
13. Weight and height of members of athletic teams

In the event a student does not want the directory information released, he/she must submit, in writing, the specific information to be withheld to the Office of the Registrar. This must be done each semester that the exclusion is to apply.

The FERPA revisions of 1998 permit schools to notify parents of students who are under the age of 21 if such student is found responsible for violating institutional policies regarding alcohol and other drugs.

Authorization for Release of Information

Students who wish to provide confidential information (such as grades, academic progress reports, financial aid information, etc.) to specified individuals may make this authorization online through their WNCC portal. Alternatively, students may complete a form in the Student Services Office on any of the three campuses to make this authorization.

Questions related to FERPA may contact the Office of the Registrar at 308.635.6012, and additional information is available in the **WNCC *Student Handbook***.

Equal Access Policy

Western Nebraska Community College seeks to make all programs, services, including electronic, accessible to people with disabilities. In this spirit, and in accordance with the provisions of Sections 504 and 508 of the Rehabilitation Act and the Americans with Disabilities Act (ADA), WNCC provides students, faculty, staff, and visitors with reasonable accommodations to ensure equal access to the programs and activities of the college. For assistance or further information, students with disabilities should contact the Counseling Director at (308) 635-6090. Additional information is available in the *Transition Guide for Students with Disabilities* on the WNCC Web site under Disability Services.

Responding to Complaints of Discrimination, Harassment, Sexual Misconduct, Dating Violence, Domestic Violence, and Stalking

Western Nebraska Community College is committed to providing a college environment free from harassment, discrimination, and retaliation, and all WNCC employees and students are prohibited from such behavior. In addition, WNCC has established both formal and informal procedures to report complaints alleging discrimination, harassment, and retaliation on the basis of race, color, national origin, disability, sex, and age.

All WNCC employees not bound by professional conflicts of privacy and confidentiality who become aware of or witness sexual misconduct, including sexual harassment, dating violence, domestic violence, and stalking are required to promptly report to the Title IX Coordinator or a Title IX Deputy Coordinator. Any student who is aware of or who witnesses sexual misconduct, including sexual harassment, dating violence, domestic violence, and stalking is also encouraged to promptly report to the Title IX Coordinator or a Title IX Deputy Coordinator.

If a student feels that he or she is the victim of discrimination, harassment, misconduct or violence, it is important to remember that there are supportive people at WNCC who are resources for discussing and helping to clarify what constitutes discrimination, harassment, or misconduct and the action steps that can be taken. The College has established both formal and informal procedures to report complaints.

To file a complaint or get help, students should seek assistance through the chief human resources officer who is also WNCC's Institutional Civil Rights Officer and Title IX Coordinator.

Human Resources Executive Director
1601 East 27th Street, Scottsbluff, NE 69361
308-635-6105

More complete information about the reporting process can be found in the **WNCC *Student Handbook***.

Students should not wait to report conduct of concern until harassment becomes sufficiently serious (i.e., severe, pervasive, or persistent) to create a hostile environment. Off-campus harassment, misconduct, or violence that creates a hostile environment on campus should be

brought to the attention of the College. Students are not required to discuss the complaint informally with the alleged perpetrator. Complaints will be investigated whether it is received in writing or verbally. Information shared in the complaint process will be kept confidential to the greatest degree possible. All complaints will be investigated and addressed in a timely manner.

No retaliation

No one at Western Nebraska Community College may reprimand, discriminate or otherwise retaliate against an individual who initiates an inquiry or complaint in good faith, nor against other individuals who share information related to the complaint.

Student Complaint Process

WNCC strives at all times to provide the highest quality of service and the best student experience possible. Students are encouraged to report any complaints or observed violations of state, federal, and local laws with appropriate staff members. If a student is unsure of how to direct an issue, he or she should contact the Office of the Dean of Students:

Phone: 308.635.6050

Web: **www.wncc.edu/about-wncc/consumer-information/subpages-nonav-consumer-info/student-complaint-process**

Additional information about the complaint process can be found in the **WNCC *Student Handbook***.

Filing a Complaint with the State of Nebraska

If a student wishes to file a complaint with the State of Nebraska regarding a potential institutional violation of state law, he or she is encouraged to contact the Nebraska Coordinating Commission for Postsecondary Education:

Phone: 402.471.2847

Web: **www.ccpe.nebraska.gov/student-complaint-form**

Filing a Complaint with the Higher Learning Commission

If a student wishes to file a complaint with the Higher Learning Commission, he or she is encouraged to contact the office:

Phone: 1.800.621.7440

Web: **www.hlcommission.org/Student-Resources/complaints.html**

Smoking Policy

It is the primary goal of the College to promote a safe and healthy environment for students, faculty, staff, and visitors on property owned and operated by the College. The intent of this policy is to protect the rights of the nonsmoking community to breathe smoke free air and to reduce the health risks associated with tobacco. Smoking is prohibited on all property owned or operated by the College, including but not limited to all College buildings and vehicles.

Smoking is defined as the use of tobacco products that produce smoke or vapor emissions, including electronic cigarettes and any lighted cigarettes, cigars, pipes, hookah pipes, or other lighted smoking equipment.

Products used for cessation of tobacco use approved by the U.S. Drug and Food Administration, including alternative nicotine products, such as nicotine patches or medication, shall be allowed on College property as long as the product does not produce smoke or vapor emissions. Compliance with this policy shall be the responsibility of all employees, students, and visitors.

Student Conduct

WNCC expects students to conduct themselves as responsible law-abiding citizens. After determination of misconduct, a student may be disciplined in accordance with the sanctions of the Student Code of Conduct available in the Student Services Office and online at **wncc.edu/about-wncc/consumer-information**.

Student Right to Know & Campus Security Act

In compliance with federal regulations, WNCC annually compiles reports that indicate the College's graduation rates and the institution's current security program and crime statistics.

The Campus Security Act of 1994 (34 CFR Part 668) requires the College to report campus crime statistics for the following categories: murder/non-negligent manslaughter, forcible sex offenses, non-forcible sex offenses, robbery, aggravated assault, burglary, motor vehicle theft, arson, and negligent manslaughter.

The campus crime statistics reports are available from Student Services or online through the Office of Postsecondary Education at **ope.ed.gov/campussafety**.

The graduation completion rate report is available at **wncc.edu/about-wncc/consumer-information**.

Title IX Statement

WNCC students have the right to an educational environment free from all forms of prohibited discrimination and sexual harassment (sexual assault; domestic and dating violence; and gender, orientation or sex-based bullying, stalking, or harassment). If you experience any form of gender, orientation, or sex-based

assault, discrimination, or harassment) know that WNCC has help and support available.

Please be aware that all College employees who become aware of these forms of discrimination and harassment are required to promptly report to the Title IX Coordinator or a Title IX Deputy Coordinator. This means that if a WNCC employee is informed about a situation involving these issues, they must share the information with the College's Title IX Coordinator. The only exception is the College's counselor whose role provides a legal privilege of confidentiality.

If you wish to speak to someone confidentially, you can meet with the Counseling Director at the WNCC Counseling Center on the Scottsbluff campus or by calling 308.635.6090. Appointments are available on all WNCC campuses.

Voter Registration

Western Nebraska Community College encourages all students to exercise their right to vote. Visit **sos.state.ne.us/elec/ele_forms.html** to download a voter registration form.

Weapons Policy

The illegal possession, use or sale of firearms, ammunition, major or minor explosives, or any lethal weapon is forbidden and subject to College discipline as well as criminal sanctions. The College prohibits permit holders who are authorized to carry a concealed handgun from carrying a concealed handgun into or upon the property of Western Community College Area, which operates WNCC.

Admission, Cost of Attendance, Financial Aid, and Enrollment

Admission

Western Nebraska Community College has an open admissions policy. Anyone who can benefit from instruction has the right to pursue an education at WNCC.

Requirements for Admission

A degree-seeking student must submit an application for admission. An application can be completed online at **www.wncc.edu/admissions-aid/index.**

It is highly recommended that the student provide an official transcript from an approved or accredited high school or home school, or present an authorized transcript reflecting passing scores on the General Education Development test (GED). The student must submit Next Generation ACCUPLACER®, ACT, or SAT scores completed within the past three years. Students can arrange to take the Next Generation ACCUPLACER® on campus by contacting 308.635.6050 to schedule testing. For more details on Next Generation ACCUPLACER® see page 53.

Students meeting the above admission requirements are admitted regardless of age, sex, ethnic origin, national origin, or disability.

Please note: There may be additional requirements beyond those stated above for students to be eligible for certain financial aid benefits. In addition, the student must have passed the GED or have graduated from an accredited high school in order to be eligible for financial aid.

Students with Prior Degrees

Students who can document with an official transcript that they have received an Associate of Arts, Associate of Science, or bachelor's degree from an accredited higher education institution are exempt from the Next Generation ACCUPLACER® placement requirements. However, students may still need to complete prerequisite courses to satisfy program requirements as deemed necessary by their academic advisor and the Registrar.

Admissions Procedures

1. Complete an admissions application online at **wncc.edu/admissions-aid/how-to-apply/index.**
2. Verify identification through one of the following:
   - A College identification card
   - A high school identification card
   - Another form of secure and verifiable documents, which can include: state driver's license, state identification card, valid U.S. passport, foreign passport with photo, military ID/common access card, certificate of naturalization with photo, certificate of citizenship with photo, valid I-551, valid EAH/temporary resident, refugee/Asylee I-94 with photo, BIA identification with photo, or VA card with photo.
3. Request that official transcripts be sent from high school.
4. Submit official transcripts for colleges previously attended to the Registrar's Office in Scottsbluff.
5. Submit a report of ACT, SAT, or Next Generation ACCUPLACER® scores if available.
6. Complete the Next Generation ACCUPLACER® basic skills assessment unless exempt. Students can arrange to take the Next Generation ACCUPLACER® on campus by contacting 308.635.6050. For more details on the ACCUPLACER®, see page 53.
7. Some programs have special admission requirements. See the catalog page of the program in which you are interested for further information.
8. No fee is required for application or admission. A letter of acceptance is sent from the Admissions Office after your application is processed.
9. Nebraska Residency Attainment. Out-of-state students may obtain Nebraska residency if they meet any of the following criteria:
   a) Are married to a Nebraska resident.
   b) Have graduated from a Nebraska high school and have re-established a residence in the State of Nebraska.
   c) Have lived for six consecutive months in Nebraska and can show proof of fact (see below).
   d) In addition to meeting any of the above requirements, documentation of three of the following six items must be supplied:
      i) Employed in Nebraska;
      ii) Payment of State of Nebraska income taxes;
      iii) Voter registration;
      iv) Nebraska driver's license;

v) Registration of vehicle as a resident of Nebraska; or
vi) A checking or savings account with a Nebraska financial institution.

All applications must be filed with the Student Services Office before the second week of the semester in which the student wishes to claim residency. Further information is available in the Student Services Office.

International Students

International students (non-U.S. citizens) have additional admission requirements. Immigration laws require international students to attend college on a full-time basis. To be admitted to Western Nebraska Community College, international students must complete all general admissions requirements and all special admission requirements listed below.

The issuance of the Certificate of Eligibility, Form I-20, is made only upon completion of all admission requirements. It is the responsibility of the applicant to make all necessary arrangements through official channels for entrance into the United States.

Applicants residing in a foreign country should make application six months prior to the anticipated enrollment date. Students in the United States should allow four months to complete the admission process. To meet all special admission requirements, international students should send the following to ATTN: International Admissions, Western Nebraska Community College, 1601 E. 27th Street, Scottsbluff, NE 69361:

- A completed International Admissions Application
- Copies of high school or secondary school transcripts, diploma, exit exam results, or other documents that show successful completion
- Proof of English proficiency
- Proof of financial support to cover all costs for one academic year
- A copy of the applicant's official passport or other government issued photo ID
- All documents must be in English or include an English translation.

In Addition:

- If admitted, students must comply with all local, state, and federal laws of the United States of America, as well as College policies.
- Only international students with a student visa are admitted.
- International students present in the United States on temporary visas are considered non-residents for purposes of tuition payment. Length of stay, payment of taxes, ownership of property, etc., do not imply legal residency.
- International students for whom an I-20 form was submitted must maintain satisfactory academic progress as a fulltime student each term.

Non-Degree Seeking Students

Students are considered non-degree seeking if they are:

- Intending to enroll in coursework to transfer to another college or taking courses for personal enrichment;
- Taking CollegeNOW! or courses to earn college credit while enrolled in high school;
- Taking Allied Health courses to earn a credential in Basic Nursing Assistant or Medication Aide;
- Enrolled at the Pine Ridge Job Corp; or
- Senior Citizens with a Gold Card.

Please see the Admissions Office for additional registration information.

Students must complete the Non-Degree Seeking/CollegeNOW! Registration Form, which can be found at **wncc.edu/admissions-aid/how-to-apply/index#nondegreeseeking**. No fee is required for completing the Non-Degree Seeking/CollegeNOW! Registration Form. Prerequisite basic skills assessment scores must be met prior to course entry.

It is highly recommended that the student provide an official transcript from an approved or accredited high school or home school, or present an authorized transcript reflecting passing scores on the General Education Development test (GED). The student must submit Next Generation ACCUPLACER®, ACT, or SAT scores completed within the past three years. Students can arrange to take the Next Generation ACCUPLACER® on campus by contacting 308.635.6050 to schedule testing. For more details on Next Generation ACCUPLACER®, see page 53.

Students meeting the above admission requirements are admitted regardless of age, sex, ethnic origin, national origin, or disability.

Non-degree seeking students interested in pursuing a degree-seeking program of study must complete the admissions process for degree seeking students.

High School Students

CollegeNOW!

Students taking WNCC courses either at the high school they are attending or on one of the three WNCC campuses must be junior- or senior-level students. The

Vice President of Student Services must approve any exceptions. Students must complete the Non-Degree Seeking/CollegeNOW Registration form, which can be found at **wncc.edu/admissions-aid/how-to-apply/index#nondegreeseeking.**

Registration forms need a parent/guardian and high school counselor/principal's signature and registrations are not entered until these signatures are obtained. Required Next Generation ACCUPLACER® and/or ACT scores must be submitted to the College prior to registration.

High school students taking on-site WNCC classes are asked to sign an "Authorization Grade Disclosure" for parents or others who may need/want access to their grades.

Homeschooled

Students who were homeschooled are requested to present a transcript from parents/guardians or a recognized homeschooling organization showing courses completed and grades. Homeschooled students need to be at the junior- or senior-level to take College courses. The Vice President of Student Services must approve any exceptions to these guidelines. Prerequisite basic skills assessment scores must be met prior to course entry. Students must complete the Non-Degree Seeking/CollegeNOW Registration form, which can be found at **wncc.edu/admissions-aid/how-to-apply/index#nondegreeseeking.**

Registration forms needs the signatures of a parent/guardian and the CollegeNOW! Director. Registrations are not entered until these signatures are obtained. Required Next Generation ACCUPLACER and/or ACT or SAT scores must be submitted prior to registration.

Cost of Attendance

The following tuition and fees are estimated costs at the time of publication. Please visit **www.wncc.edu/admissions-aid/tuition-fees/index** for current cost of attendance figures. WNCC reserves the right to change the schedule of tuition, fees, and refunds without notice. Tuition and fees are payable before the first day of class unless other arrangements are made with the Financial Aid Office or Business Office. All financial obligations must be settled before the student is allowed to register for additional semesters. Students who take classes for audit are also charged tuition and fees.

Tuition (2019-2020)

These costs are subject to change. For current information, visit www.wncc.edu/admissions-aid/tuition-fees/index.

Nebraska Resident

Tuition per credit.....$104.00

High School Partnership.....$52.00

Non-Resident

Tuition per credit.....$105.00

Adult and Continuing Education

Tuition per noncredit course .....Varies

Fees (2019-2020)

(Activity, facility use, instructional technology, and scholarship)

Resident (per credit hour) $17.50

Non-Resident (per credit hour) $17.50

High School Partnership.....$8.75

International Student Registration (per semester) ...$150.00

Experiential Learning (per cr. hr.) $25.00

Photography (per credit hour).....$15.00

Transcript (official e-copy).....$5.55

ACCUPLACER® retest.....$15.00

BNA or Medication Aide retest fee $50.00

GED Testing $120.00

Aviation Note: Students should plan for approximately $1,170 for FAA testing fees during the third and fourth semesters.

Course Fees: Some courses assess an additional fee for consumable expenses directly related to participation in a course. The following areas currently include courses where special fees are assessed: Accounting, Agriculture, Associate Degree of Nursing, Auto Body, Automotive Technology, Aviation, Biology, Chemistry, Commercial Drivers' License, Health Information Management, Licensed Practical Nursing, Medical Technician, Music, OSHA, Powerline, Surgical Technology, and Welding. This list is subject to change.

If a course has a fee associated with it, students will see the fee listed in the semester course schedule. Students can also consult with their academic advisor.

Estimated Expenses for 2019-2020

The following is an estimated budget for two semesters of study for full time, resident, unmarried students. Some areas may vary depending upon such items as (1) educational program, (2) personal spending habits and, (3) place of residence. Please visit our website at

wncc.edu/admissions-aid/financial-aid for the current year's budget.

Tuition and Fees (24 credits)	$2,916.00
Books	$1,500.00
Personal Expenses	$1,797.00
Transportation	$1,635.00
Room and Board	$6,912.00
Total	**$14,760.00**

Tuition Refund Policy

Tuition refunds are based on the percent of course time that has elapsed. After the No Penalty Drop/Add Period ends, course fees are not subject to refund.

Time Elapsed	Percent Refunded
6.25%	100%
12.50%	50%
25%	25%
More than 25%	None

NOTES:

- To be eligible for a refund, students must complete and submit a signed copy of the WNCC Drop/Add Form.
- **Military Note:** Military individuals called to active duty are to submit their orders to the Registrar and the Military/Veterans Affairs Office.

Financial Aid

wncc.edu/admissions-aid/financial-aid

An important consideration for most students is financing their college education. This section provides information about the types of aid available, procedures for applying for financial aid, and the criteria used in selection of financial aid recipients. The student and his/her family have the primary responsibility for financing a college education. However, WNCC participates in a wide variety of federal, state, private, and institutional programs designed to assist families with college-related expenses when their own resources are insufficient. These programs include grants and scholarships, work programs, and low-interest loans. Financial aid packages are structured to meet the particular needs of each recipient and may vary according to financial resources available and the student's enrollment level. New applications are required for each academic year of enrollment for most types of aid.

Types of Financial Aid

Scholarships do not have to be repaid. Criteria may include academic performance, special talents, activity participation, financial need, community service, and other factors. Funds are provided by WNCC, the WNCC Foundation, the Western Nebraska Education Endowment Association, civic and community organizations, and other sources supporting higher education.

Grants generally do not have to be repaid. Awards are need-based with funds provided by federal and state governments and WNCC.

Programs include:

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Nebraska Opportunity Grant (NOG)
- VA educational benefits for qualified individuals

Employment includes part-time jobs that pay at least minimum wage and provide flexible credits. Some jobs involve community service activities. The federal government and WNCC provide funds for the need-based Federal Work Study Program. WNCC also funds other part-time student employment that is not need-based and is not offered as part of the financial aid package. Half-time enrollment, which is defined as at least six credit credits, is required for both.

Federal Direct Loans must be repaid with accrued interest. Half-time enrollment, which is defined as at least six credit credits, is required. Payments to the principal may be deferred while enrolled half time or more and there are several repayment plans from which to choose. Congress determines the interest rates for the various loan programs annually. See the Financial Aid Office for current interest rates. Funds are provided by and backed by the federal government.

- Federal Direct Subsidized Loan (need-based)
- Federal Direct Unsubsidized Loan (not need-based)
- Federal Direct Parent Loan for Undergraduate Students (PLUS), for parents of dependent students (not need-based)

Federal Direct Loan information is submitted to the National Student Loan Data System (NSLDS) and is accessible by guaranty agencies, lenders, and institutions determined to be authorized users of the data system. Students may access their student loan/grant amounts, outstanding balances, loan statuses, and disbursements through the National Student Loan Data System Student Access at **nslds.ed.gov**.

Applying for Federal Financial Aid

Federal Aid Eligibility Criteria

To receive aid from any of the federal student aid programs, an applicant must meet all of the following criteria:

- Have financial need, except for some loans
- Have a high school diploma, GED certificate, or completed homeschooling at the secondary-level
- Be enrolled or accepted for enrollment in an approved program at WNCC for the purpose of obtaining a diploma, certificate, or degree
- Be a U.S. citizen, national, permanent resident, or eligible non-citizen
- Have a Social Security Number
- Be making satisfactory academic progress toward completion of a diploma, certificate, or degree
- Certify that financial aid funds are used only for educational purposes
- Not be in default on a federal student loan
- Not owe a repayment of a federal grant
- Be registered with Selective Service, if required

The U.S. Department of Education interfaces with other federal databases to confirm several of these criteria.

Note: Only classes that count toward your degree (or as an allowable elective) can be funded by federal financial aid.

How Need is Determined — The basic need formula is represented by the following calculation:

Cost of Attendance
– Expected Family Contribution
= Financial Need

The goal of the WNCC Financial Aid Office is to meet as much of the student's financial need as possible with available funds for which the student qualifies.

Cost of Attendance (COA) — This is an estimate of the student's expenses for the period of enrollment. It includes allowances for:

- Tuition and fees
- Books and supplies
- Room and board
- Transportation
- Personal expenses

Please see the WNCC website at **www.wncc.edu/admissions-aid/tuition-fees/index** for the current costs of attendance.

Expected Family Contribution (EFC) — The EFC is calculated by the federal processing center using the information reported on the FAFSA. It represents the amount the student and his/her family can reasonably contribute toward educational expenses.

Limits to Federal Aid — Because Congress has established limits to the length of time and amounts students may receive in Pell grants and Federal Direct Subsidized Loans, students are encouraged to monitor their academic progress, stay on track in their degree program, and complete their degrees within recommended timeframes.

Free Application for Federal Student Aid (FAFSA)

To be considered for any of the federal or state grants, employment or loan programs listed above, applicants must complete a Free Application for Federal Student Aid or FAFSA for each academic year of study.

1. The recommended method of application is to apply online at **studentaid.ed.gov/sa/fafsa**. Students (and parents) will need a Federal Student Aid (FSA) identification (ID) when accessing financial aid information and electronically signing federal student aid documents. For more information about the FSA ID, or to create a FSA ID, go to **studentaid.ed.gov/sa/fafsa/filling-out/fsaid.** Online applicants who do not electronically sign their applications need to print a signature page, sign and date it, and mail it to the federal aid processor. This option delays processing significantly.
2. Students are strongly encouraged to use the IRS Data Retrieval Tool (DRT) to transfer tax information directly from the IRS into their FAFSA. Using the DRT provides accurate entry of tax information and may eliminate additional paperwork if the FAFSA is selected for verification.
3. Those who prefer to submit a paper application may obtain a FAFSA directly from the U.S. Department of Education by calling 1.800.4.FEDAID (800.433.3243).
4. Most students who completed an online FAFSA for the previous academic year receive information from the U.S. Department of Education on how to file a renewal FAFSA online.

Note: Regardless of the method of application, WNCC's Federal School Code **002560** must be listed on the FAFSA in order for the results to be sent to the WNCC Financial Aid Office.

Summer Aid Application — In addition to the FAFSA, WNCC uses a supplemental application form for students who wish to be considered for summer financial aid. This

application is available online or from the WNCC Financial Aid Office beginning in April.

Loan Application — A separate loan application is required annually for the Federal Direct Loan or the PLUS loan. First-time borrowers are required to complete online entrance counseling and a Master Promissory Note (MPN). The MPN remains active for 10 years and does not need to be renewed annually. The MPN and entrance counseling are completed at **studentloans.gov/myDirectLoan/index.action** Contact the WNCC Financial Aid Office for further information.

What Happens Next?

The applicant receives a Student Aid Report (SAR) after the federal processing center has completed processing the FAFSA. This is in the form of a hardcopy SAR mailed to the applicant or an email notification with instructions on how to obtain the SAR electronically. The applicant should carefully review the SAR data for accuracy and to ensure that WNCC is listed to receive the results.

- If the SAR data is accurate and no changes are necessary, the applicant should retain the document for his/her records.
- If changes to the SAR data are necessary, the applicant should make the corrections online or notify the Financial Aid Office. The student (as well as one parent, in the case of a dependent student) must sign both the SAR and any supporting documentation provided if corrections are submitted through the Financial Aid Office.

Verification — The U.S. Department of Education selects a percentage of FAFSA applications nationwide to verify the accuracy of data reported on the FAFSA. The WNCC Financial Aid Office notifies students who are selected for verification. WNCC partners with Inceptia to provide FAFSA verification services for students. Inceptia will notify students of the steps required to complete verification. This process must be completed and any errors corrected before the student's financial aid eligibility can be determined. Students have 30 days from the notification date to complete verification or their financial aid application is considered inactive.

Notice of Eligibility — After the application is reviewed and processed, the WNCC Financial Aid Office notifies the student of his/her financial aid eligibility. Students who are eligible for assistance receive notification indicating the financial aid programs and maximum award amounts. Award amounts are based on full-time enrollment (12 credit credits or more per semester, including summer). Some awards can be prorated for enrollment in fewer credit credits. Students who do not qualify for federal or state grant assistance receive notification of ineligibility and options of alternative forms of aid.

Special Circumstances

Students who have special circumstances should contact the WNCC Financial Aid Office:

- Dependent students unable to provide parental information on the FAFSA.
- Students whose financial situation has changed since filing the FAFSA or have financial issues not taken into account on the FAFSA.
- Students with excessive education expenses beyond what is included in the standard financial aid budget.

WNCC Scholarship Application

To be considered for WNCC institutional and endowed scholarships, students must complete the WNCC General Scholarship Application by March 1 prior to the start of each academic year. If scholarship funds remain, applications may be accepted again for the fall and spring terms. Check online at **wncc.edu/admissions-aid/financial-aid/scholarships** for general eligibility requirements, deadlines, and availability.

Scholarships funded by outside community organizations usually require a separate application and may have different deadlines. Application forms and information about scholarships are available from the WNCC Financial Aid Office, the Alliance and Sidney campuses, or **wncc.edu/admissions-aid/financial-aid/.**

Applying for, Receiving, and Maintaining Aid

When to Apply

To receive the best financial aid package available, students are encouraged to apply as early as possible after the October 1 FAFSA release date. WNCC's priority application date is March 1 prior to the academic year for which funding is requested. Limited-fund programs include NOG, FSEOG, Federal Work Study, and scholarships.

Applications are generally processed in the order received, and processing time may vary depending on the time of year and volume of applications received. Unnecessary delays can be avoided by completing applications neatly and thoroughly, and by responding quickly to any requests for additional information.

Students who wish to be considered for any available summer financial aid should complete the supplemental summer application by May 1.

Note: Individuals eligible for Veterans Administration (VA) educational benefits may apply at any time in the Veterans Upward Bound or Military/Veterans Affairs (MVA) Office.

How Aid is Disbursed

The method and timing of disbursements depends upon the type of aid awarded, the status of the student's application and the enrollment level. Funds from financial aid sources must first be used to pay direct educational expenses (tuition, fees, campus room and board, and authorized bookstore charges) before being made available to students for other education-related expenses.

1. Funds from grants and scholarships are usually applied to the student's WNCC account the fourth week of each semester. If the amount of aid exceeds the amount owed to WNCC, a refund check for the difference is available to the student no later than the end of the fourth week of classes. Check the website for disbursement dates.
2. Students employed through the Federal Work Study Program receive a paycheck for credits worked each pay period. There are two pay periods per month.
3. Student loan funds are transmitted to WNCC electronically by the federal government. If the student has completed a loan request form before the beginning of the semester or year for which he/she is requesting aid, the loan funds should be available in the same manner as described in one (1) above. Other disbursement rules apply for first-year, first-time borrowers, and for students receiving a semester-only rather than academic year loan. Students must also complete Direct Loan Entrance Counseling and a Master Promissory Note (MPN) online before loans are originated. Loans requested and originated later in the semester are available on the Friday after funds are received.
4. Instructors must verify a student's attendance in each class before the student can receive his/her first disbursement.

Census Date — A student's initial financial aid awards are based on full-time enrollment. However, the student's eligibility is adjusted to reflect his/her actual enrollment on the financial aid census date, which is typically during the third week of classes each semester.

Satisfactory Academic Progress

Student Academic Progress (SAP) measures a student's performance in the following three areas: cumulative completion rate, cumulative grade point average (GPA), and maximum time frame. The Financial Aid Office is responsible for reviewing the cumulative academic progress of all enrolled degree-seeking students receiving financial aid at the end of each payment period. The purpose of this review process is to determine whether a student is making satisfactory progress towards their educational goal in both qualitative and quantitative measurements. The qualitative measurement consists of the cumulative grade point average of all credits transcripted, regardless of whether the student received financial aid for those credits.

The quantitative measurement contains two components: (1) the cumulative completion rate of credit hours completed versus credit hours attempted expressed as a percentage rate of completion and (2) the maximum time frame allowed for a student to complete their certificate or degree program expressed as a percentage of 150% of the total credit hours required.

Review of SAP will take place at the end of each payment period for all enrolled degree-seeking students who received financial aid. A student's entire academic record will be reviewed and evaluated for SAP whether or not financial aid was received. The process to review financial aid SAP eligibility will be the same for all students evaluated. All coursework, including coursework for which a college has offered academic amnesty must be included in the review process. The College will notify financial aid applicants of their SAP status. A student is considered to be a financial aid applicant if they complete the Free Application for Federal Student Aid (FAFSA) or if they are offered funding to assist in educational costs through the Financial Aid Office.

The SAP standards apply to all applicable forms of financial assistance programs including Federal Pell Grant, Federal Work-Study (FWS), Federal Supplemental Educational Opportunity Grant (FSEOG), Direct Stafford Loans, Direct PLUS loans, as well as assistance from the State of Nebraska. The College will determine what institutional funds will be affected by the student's SAP status.

Definitions of Financial Aid Satisfactory Academic Progress Status

Students who fail to meet either the quantitative or the qualitative criteria will be notified of their status in accordance with the definitions below:

Satisfactory

The student is eligible to receive all types of aid.

- Student has cumulative GPA at or above 2.0.
- Student has pace (cumulative completion rate) at or above 70%.
- The student has attempted less than 150% of required number of credit hours for enrolled degree or certificate program. All transcripted credits, including

transfer credits are included in the calculation for the maximum time frame.

Warning

The student was previously in satisfactory standing but failed to meet one or both of the SAP criteria stated below. The student will continue to receive aid while on warning status.

- Student has cumulative GPA below 2.0; and/or
- Has pace (cumulative completion rate) below 70%.

Suspension

The student failed to comply with stated SAP criteria while on warning or probation. The student is not eligible to receive financial aid (federal, state or designated institutional financial aid).

- Student has under a 2.0 GPA and/or 70% pace (cumulative completion rate).
- Student has attempted 150% or more of required number of credit hours needed for degree or certificate program.

Probation

The student will be placed on probation, if the student was previously on suspension status, made an appeal, and the appeal was granted. The student will be eligible to receive financial aid for one term while on probation, unless an academic plan has been incorporated into the SAP appeal.

Academic Plan

The student who has eligibility reinstated to probation under an approved academic plan and is successfully following that plan is eligible to receive financial aid and continues to be eligible for aid while following the approved academic plan. Financial aid eligibility will be reviewed at the end of each payment period according to the approved academic plan.

Financial Aid Satisfactory Academic Progress Criteria

In order to meet SAP requirements, financial aid applicants and recipients must meet the qualitative and quantitative measurements outlined below:

Qualitative Measure

Cumulative GPA Requirement:

Students must maintain a minimum cumulative grade point average of 2.0 for all credit hours attempted.

Quantitative Measure

Pace (Cumulative Completion Rate):

- Students must complete at least 70% of cumulative attempted credit hours.
- The completion rate is defined as the percentage of the total number of credit hours completed divided by the total number of credit hours attempted over the entirety of a student's academic record at the college performing the calculation. (Credit hours completed/credit hours attempted) x 100=completion rate.)
- Transfer credit hours on the student's record are included when computing the student's completion rate.
- Remedial credit hours and all repeated credit hours are included in the calculation of the cumulative completion rate.

Maximum Time Frame

- Federal regulations allow financial aid recipients to receive financial aid for a maximum number of attempted credit hours. Students attempting credit hours in excess of 150% of the required number of credit hours to complete their program of study will be placed on financial aid suspension status. If at any point in time it is determined that a student cannot complete their program of study within 150% of the program length, the student will be ineligible for aid.
- Transfer credit hours are included in the calculation of maximum time frame. WNCC requires submission of transcripts from all prior institutions prior to disbursement of federal and state aid to determine credits for maximum time frame calculation.
- Attempted credit hours under all courses of study are included in the calculation of attempted and earned credit hours.
- All remedial credit hours and repeated credit hours are included in the maximum time frame calculation.
- ESL courses are included in the maximum time frame calculation.

Evaluation of Financial Aid Satisfactory Academic Progress

1. Review of SAP will take place at the end of each payment period. The student's academic history is reviewed for: a) cumulative GPA requirement; b) pace (cumulative completion rate); and c) maximum time frame.
2. A student's entire academic record will be reviewed and evaluated for SAP, whether or not financial aid was received. Based on all academic history a student may be considered ineligible for aid.
3. The SAP evaluation process will occur at the end of each payment period of enrollment. When the

student applies for financial aid (receipt of the Free Application for Federal Student Aid), the evaluation process will be completed based on the student's last term of enrollment and then updated at the end of each term for which the student is enrolled. All terms of enrollment will be considered in the SAP evaluation whether or not the student received financial aid during those terms.

4. All students who fail to meet SAP criteria will be placed on warning or suspension. Financial aid applicants will be notified of their status.
5. The Financial Aid Office will review GPA and credit hours attempted/completed through consortium agreements.

Treatment of Completion and Repeats

1. Grades of D- or higher earned during all periods of enrollment will be considered acceptable for courses completed.
2. Grades of F, NP, I, W, CR, and AU earned during all periods of enrollment will not be considered acceptable for SAP.
3. Repeated courses are counted for all qualitative and quantitative measurements, as is coursework removed from the permanent transcript through an academic amnesty appeal.

Treatment of Grade Changes

1. Students are responsible for notifying the College Financial Aid Office of all grade changes that might affect current or future financial aid eligibility. A reevaluation of the students' status will be performed by the Financial Aid Office once the grade change has been communicated to the Financial Aid Office.
2. The College reserves the right to notify students of this requirement based on the College's official means of communication.

Student Financial Aid Academic Progress Appeals

The College is required to have a primary and a secondary process for students to appeal their eligibility. The secondary process is meant to address appeals of denied appeals from the primary process.

All decisions made at the secondary level are final.

The process for appeals at the primary and secondary level will be defined by the College. A student may appeal when they have been placed on suspension status. These appeals must be submitted to the College Financial Aid Office or designated location with supporting documentation. The student is responsible for presenting sufficient information and documentation to substantiate the existence of extenuating circumstances. The College may request additional documentation as student's extenuating circumstances warrant it.

Appeal forms are available from the Financial Aid Office or online at **www.wncc.edu/cost-aid/apply-aid/forms.** Appeals should be submitted as soon as possible following notification of suspension, but ***no later than mid-term of the semester for which the student is requesting aid.***

Appeals must include the following information:

- why the student failed to make SAP; and
- what has changed that will allow the student to make SAP at the next evaluation.

Appeals may be submitted for extenuating circumstances, such as:

- medical problems (family illness);
- family emergency (death of a family member); or
- other documented extenuating circumstances beyond the student's control.

Students may also appeal on the basis of:

- funding for an additional degree or certificate.

Western Nebraska Community College may approve an appeal if:

- the College has determined the student will be able to meet SAP standards at the end of the subsequent term given the merits of the appeal and reasonable resolution of a student's extenuating circumstance; or
- the College and the student develop a plan that ensures the student is able to meet the College's SAP standards by a specific time or that the plan takes the student to successful program completion.
- students will be notified by the College of the outcome of their appeal. Under no circumstances can probation be assigned to a prior term.
- the College may notify students prior to the end of the term or prior to official posting of the financial aid SAP status if the student's academic progress indicates they will be ineligible for aid at the end of the term. This includes students who withdraw from the term or fail to meet the terms of their conditional probation.

The College will set deadlines for the processing of financial aid prior to the end of a term. The College may limit the number of SAP appeals that will be considered after review on a case-by-case basis of the student's academic and appeal history.

Reinstatement of Aid

1. Students who lose financial aid eligibility because they are not meeting the college's SAP standards will regain eligibility when they are again meeting the

qualitative and quantitative standards as set previously in this policy.

2. Students may also regain eligibility through the appeal process.
3. Upon successful reestablishment of eligibility, the student will be awarded financial aid based on the availability of funds at the time of reestablishment. Reinstatement will not be retroactive to a prior term of ineligibility.

Students may, or may not, receive all funds awarded prior to the loss of eligibility. ***Financial resources other than federal financial aid, including loans, must be used to pay for educational expenses during these terms.***

Impact of Withdrawals on Financial Aid

Financial aid recipients who officially withdraw from all their classes or cease attendance without notifying the school may be required to repay a portion of the federal funds they received for that term. This is determined on a pro-rata basis by multiplying the percentage of term not attended by the Title IV aid received. Federal regulations specify the calculation used to determine if and how much repayment is required. All types of federal aid, including loans, are included in the calculation. Federal Work Study funds that have been earned are not included. If a student attended more than 60% of the term, no return of funds is required. After the amount of Title IV aid to be returned is calculated, a determination of how much must be returned by the institution and how much must be returned by the student is made. If a student owes a repayment, it is applied to the following programs in this order:

1. Federal Direct Unsubsidized Loan
2. Federal Direct Subsidized Loan
3. Federal Direct PLUS Loan
4. Federal Pell Grant
5. Federal Supplemental Educational Opportunity Grant
6. Other federal aid programs

Any loan funds required to be returned must be repaid by the student in accordance with the terms of the promissory note. Any amount of unearned grant funds that must be returned is considered an overpayment. The maximum amount of grant overpayment is half of the grant funds received or scheduled to be received.

Any return of Title IV funds required by the student must be paid prior to receiving additional financial aid at WNCC or any other institution. Any funds returned by WNCC on the student's behalf must be repaid by the student to WNCC prior to attempting to register for subsequent terms.

The requirements for Title IV program funds are separate from WNCC's refund policy. Therefore, students may still owe funds to WNCC for unpaid institutional charges.

Additional details regarding this policy are available from the Financial Aid Office.

Transfer and Financial Aid

If a student transfers from one school to another, financial aid does not automatically transfer. The amount and type of aid offered by the new school may differ due to variations in the school's cost of attendance, funding availability, and academic requirements. A transferring student should contact the Financial Aid Offices at both schools for the correct procedures, deadlines, and policies. Annual aid limits apply if a transferring student received federal student aid during the academic year at his/her previous institution. Official transcripts from all previous institutions attended must be submitted to WNCC's Registrar prior to disbursement of federal aid to determine credits for maximum time frame calculation.

Other Financial Resources

There are many websites containing tips and information about applying for financial aid. Live links to federal resources, private organizations that support higher education, free scholarship search engines, and other helpful resources can be found at **wncc.edu/admission-aid/financial-aid/application-materials/deadlines.**

Students are advised to be careful of scholarship scams and any online or phone request for Social Security, credit card, or bank account numbers, or any other personal identification that could be used for identity theft. Contact the Financial Aid Office to check on scholarship or other aid legitimacy.

Enrollment

Academic Advising

Western Nebraska Community College strives to help students achieve their academic goals, and personal academic advising is an important part of this process. Counselors and advisors can assist students in identifying an appropriate program of study. They will also help students draft an academic plan outlining the courses they will need to complete in order to meet the requirements for graduation. This academic plan can be modified each semester based upon course offerings and student progress.

All new first-year students will meet with a professional advisor in the Career Planning and Advising Center who

will help plan the students' first semester of classes at WNCC.

Each student is also assigned a faculty advisor who has special training and experience in the student's academic field of interest. Faculty advisors will help students with their class schedules after the first semester and provide their advisees with ongoing information and assistance in meeting educational goals. The faculty advisors can also be of assistance to students in their efforts to achieve satisfactory academic and social adjustment. Questions concerning work in a particular course should be discussed with the course instructor. The student's faculty advisor can answer general questions on scheduling and planning the academic program at any time and particularly during registration advising sessions. The faculty advisor's approval is required for all courses a student wants to take each semester. This approval is requested and granted through the Student Planning tool in the WNCC portal.

Together, professional and faculty advisors serve as the students' partners during their time at WNCC. These advisors can also assist students who are considering changing their programs or who need information regarding transfer to other colleges.

Class Registration

Students are encouraged to register into their classes early, as they are required to be registered prior to the start date of each term. Accepted students who miss the deadline are encouraged to register for second eight-week classes or for the next term.

For degree-seeking students, registration is completed through the online Student Planner. First semester students will work with a professional advisor to learn how to utilize Student Planner and how the registration process works. An initial academic plan geared toward a student's specific program of study is built in Student Planner. During the first term, a student meets with his/her faculty advisor to develop a full long-term academic plan in Student Planner. Once the faculty advisor approves the long-term plan, a student can then register for classes in subsequent terms.

To change the intended program of study and faculty advisor, please contact the Student Success and Retention Director.

Drop/Add & Schedule Changes

Drop/Add Period

Students may add a class during the first five (5) class days of a semester or during the first three [3] days of an eight-week session. They may also drop a course with no penalty (the course will not appear on a student's transcript) during that same period. Tuition and fees are assessed on all courses added, and drops are refunded at 100%.

Withdrawal Period

The official withdrawal period begins after the first five (5) class days of each regular semester and ends when 60% of the term has expired as outlined in the official WNCC calendar. (The official withdrawal period for eight-week courses begins after the first three [3] class days). Students who wish to withdraw from a class during the withdrawal period may do so only by securing the instructor's signature on the required form and completing the withdrawal procedure through the Student Services Office. Students withdrawing from a course will receive a grade of "W" on their transcript.

Students may or may not receive a refund when withdrawing from a course, depending on the percent of time expended (See "Refund Policy"). Federal financial aid is recalculated during this time and refunds may be owed. Students should be sure to contact the Financial Aid Office to understand the ramifications.

Students who cease to attend a course and fail to withdraw officially from it remain registered for the course and will receive a grade regardless of intent.

Withdrawal from Online Courses

To drop an online course, download the online drop form from the WNCC portal, complete it, and sign it. In addition, students must e-mail the instructor with a request to drop. An explanation as to why the drop is needed is helpful. The instructor then responds to the student with a drop grade and the last date of attendance. The student should copy the instructor's response and email his or her request, along with the drop form, to **registrar@wncc.edu**. Students may also fax this information to 308.635.6732 or mail it to the WNCC Student Services Office, 1601 E. 27th Street, Scottsbluff, NE 69361. The drop is processed according to the date when the student first contacted the instructor.

For summer and eight-week classes:

1. The official withdrawal period begins after the first three (3) days of the semester and ends when 60% of the class is expended.

Withdrawal from College

Students who find it necessary to withdraw from all classes from WNCC may do so by completing the following steps:

During the official withdrawal period (until 60% of the course time is completed):

1. Fill out the WNCC Drop-Add Form available in the Student Services Office or by download from the student's portal. Each instructor needs to sign the form and provide a last date of attendance. In an emergency, staff from the Student Services Office can assist in contacting instructors. Charges for courses continue to accrue in accordance with the published WNCC refund policy until the completed withdrawal form is received in the Student Services Office.
2. Students receiving financial aid must speak with a financial aid representative prior to withdrawing to understand the resulting implications. A complete withdrawal, whether official or unofficial, may result in a repayment obligation and/or loss of future eligibility
3. Individuals receiving VA benefits need to contact the Veterans Upward Bound or Military/Veterans Affairs Office.

After the official withdrawal period (beyond the last official date to withdraw):

1. Fill out the "Request for Total Withdrawal after the Last Day to Drop" form available in the Student Services Office. The total drop must be for extenuating circumstances only. It cannot be used simply to avoid a series of failing grades.
2. The Vice President of Student Services and the Dean of Instruction or their designees must approve the drop. If approved, the status of the classes is listed as a "W." The instructors are notified that a total drop was issued.
3. Students receiving financial aid must speak with a financial aid representative prior to withdrawing to understand the resulting implications. A complete withdrawal, whether official or unofficial, may result in a repayment obligation and/or loss of future eligibility.
4. Individuals receiving VA benefits need to contact the Veterans Upward Bound or Military/Veterans Affairs Office.

Grading Policies

Academic Amnesty

A student returning to Western Nebraska Community College may petition the Vice President of Student Services to have a maximum of two (2) semesters of coursework removed from the calculation of grade point average and degree credit provided the following conditions apply:

1. At least three (3) years have lapsed since the time of the semester(s) being petitioned; and
2. Since returning, the student has completed at least 12 consecutive credit credits of college-level courses with a GPA of 2.75 or above or 24 consecutive credit credits with a GPA of 2.25 or above.

If approved, the courses and grades of the semester(s) affected appear on the transcript with the notation that academic amnesty was granted. All credits and grades taken during the semester(s) are included in the amnesty. A student may receive academic amnesty only once and it is irrevocable. Since academic amnesty may affect financial aid awards, students receiving financial aid should contact the Financial Aid Office prior to applying for amnesty.

Academic Honors

A Dean's List is issued at the end of each regular semester and contains the names of all students who have completed at least 12 credits of college-level courses (numbered 1000 or higher) and other degree-required courses (courses required for the AA, AS, AD-N, AFA, and AAS degrees) with a 3.4 to 3.99 Grade Point Average.

A President's List, issued at the end of each regular semester, contains the names of all students who have completed at least 12 credits of college-level courses (numbered 1000 or higher) and other degree-required courses (courses required for the AA, AS, AD-N, AFA, and AAS degrees) with a 4.0 Grade Point Average.

Academic Probation & Suspension

The purpose of academic probation is to warn students of their unsatisfactory academic progress. A student is placed on academic probation when progress toward educational objectives is considered inadequate. A student's WNCC grade point average (GPA) is used to evaluate a student's progress. Students are considered to be making satisfactory progress if they have a WNCC GPA of 2.0 or higher.

The College reserves the right to limit the course load of any student experiencing academic difficulty and to recommend changes in the curriculum assigned.

At the end of each semester, those students whose academic progress is judged to be unsatisfactory are placed on probation, and it is required that they seek advising from one of the Student Services advisors at the campus they are attending.

Students are placed on academic suspension after they are on probation for one semester and satisfactory academic progress has not been made. A student who is suspended is not allowed to register for at least one semester immediately following his/her suspension. The student may petition the Registrar, who chairs the Academic Appeal Committee, for special consideration by completing the Academic Reinstatement Appeal form, which can be found on the student portal.

(Financial aid and athletic eligibility rules are not equivalent to the above rules of scholastic eligibility.)

Audit

Students who choose to audit a class must pay regular tuition but are not required to complete course requirements unless they so desire. Credits are not included in the student's total of completed courses. This option must be declared in the first two (2) weeks of each regular semester (i.e., fall or spring) after consulting with the instructor.

Consequences of Withdrawing from Class

The student receives a grade of "W" at the time of withdrawal from a class. This grade can be given only during the semester in which the student officially withdraws; it cannot be given retroactively. A posted grade of "W" cannot be changed to another grade later.

Students who fail to withdraw officially receive a grade of "F." Withdrawal from individual classes after the official withdrawal period is not permitted unless a student withdraws from the College or the student completes the "Appeal for W Grade after Last Day to Drop" form available in Student Services.

Directed Study

Directed study is designed to allow regularly enrolled students to pursue, for college credit, subject areas of interest outside of the existing College course structure. Directed study pursued by the individual student is intended to provide valuable experience in self-education, with faculty assistance in planning and evaluation.

Once arranged and approved, directed study courses become part of the student's course load and are subject to regular tuition and fee rates. Specific limitations and required conditions for directed study include the following:

- The student must enroll at WNCC. Regular tuition and fees are paid for directed study credits.
- An individual student must demonstrate interest in and need for the study and arrange for a qualified instructor to sponsor it.
- The instructor, division chair, and dean of instruction must approve registration in a directed study course.
- Each credit of directed study requires a student to spend time at least equivalent to that expected in a regular course involving fifteen (15) contact credits per semester.
- The student may not receive credit for more than a total of 12 credits of directed study while at WNCC.

Grade Appeals

Every student has the right to appeal the **final grade** in a course in accordance with the stipulations outlined below. **The student must initiate such an appeal no later than three (3) weeks after the day final grades are posted.**

A student who questions his or her final course grade must adhere to the following steps in the order presented:

Step 1: Discuss the matter with his/her instructor. Clerical errors are usually handled in this manner, with the instructor signing the correction of official records. If the student believes the problem is not resolved, the student shall then go to Step 2.

Step 2: Visit with the appropriate division chair to discuss the issue. If the concern remains unresolved, the student may continue to Step 3.

Step 3: Elect to file a written grade appeal to the appropriate Dean of Instruction in the Educational Services Office for referral to the Peer Review Committee.

A formal grade appeal may not be filed until Steps 1 and 2 above have been completed.

A formal grade appeal may be filed if:

- There is a dispute over the numerical calculation of the grade; or
- The grade assigned appears arbitrary and not indicative of the student's performance.

Students who question an instructor's personal treatment of the student may discuss the matter with the Vice President of Student Services as described in the *Western Nebraska Community College Judicial Codes and Appeals – Article VII – Student Rights Grievances*.

GPA Computation

Grade point averages (GPA) are computed on all credits taken at WNCC excluding those courses awarded through nontraditional credit or taken on a Pass/No Pass basis.

Grading System

GRADE	DESCRIPTION	EFFECT ON GPA
A+		4.00
A	Highest achievement	4.00
A-		3.67
B+		3.33
B	Above average achievement	3.00
B-		2.67
C+		2.33
C	Average achievement	2.00
C-		1.67
D+		1.33
D	Below average, but passing	1.00
D-		0.67
F	Failure to meet minimum	0.00
P	Passing, credit granted	No effect
NP	Not passing, no credit granted	No effect
CR	Non-traditional credit	No effect
I	Incomplete	0.00

GRADE	DESCRIPTION	EFFECT ON GPA
W	Official withdrawal, not failing	No effect
A	Audit	No effect

Grading Scales

Students will find grading information specific to each class in the syllabus received at the beginning of the semester. Health Sciences is the only division to specify a grading scale to use within all of its courses.

Health Sciences Grading Scale

The following grading scale is used specifically within Health Sciences programs.

GRADE	SCALE
A+	98-100
A	95-97
A-	91-94
B+	88-90
B	85-87
B-	81-84
C+	78-80
C	75-77
C-	71-74
D+	68-70
D	65-67
D-	61-64
F	60 and less

Graduation Honors

Students graduating with a GPA of 3.4 to 3.99 in college-level courses (numbered 100 or higher) and other degree-required courses are recognized as "Graduating with Honors." Students graduating with a GPA of 4.0 in college-level courses (number 100 or higher) or other degree-required courses are recognized as "Graduating with High Honors." Students receiving graduation honors are acknowledged during the commencement ceremony each year.

Incomplete Work

Students who are unable to complete a course because of unusual circumstances may request a status of "incomplete" after consulting with the instructor. If approved, coursework requirements must be completed satisfactorily no later than 90 days after the last day to enter grades for the semester or the incomplete status reverts to an "F." This applies to all courses, including online and directed study courses. Instructors have the right to extend the course completion period beyond 90 days if necessary. A status of Incomplete converts to a failing grade and is calculated in the student's grade point average if it is not completed within the prescribed period of time.

Student Classification

A full time student is defined as one taking 12 or more credits per semester.

Degree Offerings

Degrees & Formal Awards

WNCC offers two-year programs of study leading to one of five associate degrees:

- Associate of Arts (AA)
- Associate of Science (AS)
- Associate Degree Nursing (AD-N)
- Associate of Fine Arts (AFA)
- Associate of Applied Science (AAS)

One-year certificate, two-year certificate, and diploma options are available in selected fields.

Associate Degrees

Associate of Arts, Associate of Science, Associate Degree of Nursing, and Associate of Fine Arts degrees prepare students for careers and/or advanced study at a four-year college or university.

The Associate of Applied Science degree prepares students primarily for careers in a variety of technical and vocational areas: applied technologies, business, health, and social sciences. In most instances, students are also able to transfer part, and in some cases all, of an AAS program to a bachelor degree-granting institution.

With all associate degrees, if a student is planning on transferring to a bachelor-granting college or university, it is important for students to work closely with their individual faculty advisors.

1. All degrees require a minimum of 60 credits.
2. Courses numbered below the 1000-level do not count as part of the total credits for Associate of Arts, Associate of Science degrees, Associate Degree Nursing, and Associate of Fine Arts degrees.
3. Courses numbered below the 1000-level do not count as part of the total credits for the Associate of Applied Science.
4. While the AAS and AD-N degrees are designated as being earned in a specific program, the AA, AS, and AFA degrees are generalist in nature and not awarded "in" a field.

Students are expected to successfully complete all graduation requirements as stated in the catalog in effect during the term of graduation, or from the *College Catalog* in effect at the time of initial entry if the student is continuously enrolled. Under certain unusual circumstances, students may appeal for an exception to the Vice President of Student Services. This appeal must be made prior to the start of the term in which graduation is expected to occur.

Diploma

1. Diplomas require a minimum of 24-48 credits of courses from a suggested curriculum list appearing in the *College Catalog*. In addition to coursework specific to an area of study, students are required to take some coursework outside the student's vocational field, including but not limited to written communication, mathematics, and an elective from personal development, the social or lab sciences, or oral communication.
2. Demonstration of competency in writing and mathematics by assessment (ACCUPLACER®) or by passing the appropriate quantitative reasoning (MATH-1020, MATH-1010, or BSTC-1500) and written communication (BSAD-1210, ENGL-1000, or ENGL-1010) courses is required.
3. Courses numbered below the 1000-level do not count as part of the total credits.

Certificate

1. Certificates require completion of 12-18 credits of required courses from a curriculum list in the *College Catalog*.
2. Courses numbered below the 1000-level do not count as part of the total credits.

Degree Programs Offered

The following is a list of all degree programs offered at WNCC.

	AA	AS	AAS	AD-N	AFA	DIPLOMA	CERTIFICATE
Agriculture Science (Pre)		X					
Applied Agriculture Technology						X	X
Automotive Technology			X			X	X
Aviation Maintenance			X				X
Biology/Ecology		X					
Biomedical Research (Pre)		X					
Business Administration [Options: accounting, business administration, & management information systems]	X	X					
Business Technology [Options: executive assistant, information technology technical support, medical office management, & staff accountant]			X			X	X
Chemistry		X					
Chiropractic Medicine (Pre)		X					
Coding Technician						X	
Collision Repair & Refinishing Technology			X			X	X
Computer Sciences		X					
Criminal Justice Studies	X		X				
Dental Hygiene (Pre)		X					
Dentistry (Pre)		X					
Dietetics		X					
Education (Early Childhood)	X		X				
Education (Elementary)	X						
Education (Music)	X						
Education (Secondary) [Endorsement Areas: art; biology; business, marketing, & information technology; chemistry; English language arts; math; social science; & Spanish]	X	X					
Emergency Medical Services			X				
Engineering (Pre)		X					
Fine Arts [Options: interdisciplinary, music, music performance, musical theatre, theatre, and visual arts]					X		

	AA	AS	AAS	AD-N	AFA	DIPLOMA	CERTFICATE
Food Science (Pre)		X					
Foreign Language (Spanish)	X						
Forestry/Wildlife Management (Pre)		X					
General Studies (Language & Art)	X						
General Studies (Math and Science)		X					
General Studies (Social Sciences)	X						
Health Information Technology			X				
Human Services	X		X				X
Information Technology	X						
Information Technology – CyberSecurity Option	X						
Mathematics		X					
Medical Laboratory Technician			X				
Medical Technology (Pre)		X					
Medicine (Pre)		X					
Nursing (Associate Degree)				X			
Nursing (Practical)						X	
Nursing (Pre-Professional)		X					
Paramedic							X
Pharmacy (Pre)		X					
Phlebotomy							X
Physical Therapy (Pre)		X					
Physics		X					
Powerline Construction & Maintenance Technology						X	X
Psychology	X						
Radiologic Technology (Pre)		X					
Rangeland Management		X					
Social Work	X						
Surgical Technology			X				
Veterinary/Comparative Medicine (Pre)		X					
Welding Technology			X			X	X

Online Opportunities

AA.A.5202E	Business Administration – Accounting Option
AA.B.5202E	Business Administration – Business Administration Option
AA.C.5202E	Business Administration – Management Information Systems (MIS) Option
AA.1199A	Information Technology
AA.1199C	Information Technology – CyberSecurity option
AAS.1199B	Information Technology Technical Support
AAS.5107A	Health Information Technology (fully online)
AAS.5201	Business Technology
AS.1199A	Computer Science
C2.1199	Information Technology Technical Support
C2.5201	General Business Technology
DI.5107B	Coding Technician (fully online)

Degree Requirements

General Education Program

Purpose of General Education

The general education program at Western Nebraska Community College is designed to broaden the student as a person. The general education experience for students in Associate of Arts (AA), Associate of Science (AS), and Associate of Fine Arts (AFA) degree programs is composed of a comprehensive set of choices in communications, mathematics, sciences, social science, and the humanities, preparing students for citizenship in a diverse, global environment; taking their roles in society as citizens and professionals; and transfer to other colleges.

Students in Associate of Applied Science Degree (AAS), Associate Degree Nursing (AD-N), diploma, and certificate programs take transferable and nontransferable general education courses designed to prepare them for their roles in society as citizens, technicians, and professionals. Their avenues for employment are enhanced by the general education experience.

Each degree offering has different general education requirements, and students should be aware of the requirements for their degree program. Please see the listings following in this section.

General Education Philosophy

WNCC recognizes that student-learning goals may change during a lifetime; therefore, the general education requirements for all degrees is collegiate in nature and, as such, should provide an academic foundation for lifelong learning.

Additionally, the general education experience prepares students for the lifelong learning required for success, enriches the student's general life perspectives, and promotes competence in and understanding various fields of knowledge.

Since not all students come to college prepared for this level of endeavor, developmental courses are provided to assist the student in gaining the requisite skills.

Goals of the General Education Program

As a result of the general education experience, award seeking students develop and improve the following skills and abilities to college-level performance:

Communication – including effective written and oral skills

Critical Thinking and Problem Solving – including information literacy and mathematical and scientific inquiry

Humanities and/or Fine Arts Awareness – including literature, language, philosophy, an appreciation for the arts, and humanities

Cultural and Civic Awareness – including ethics, diversity, and global issues

Personal Development – including mental and physical wellness, leadership, teamwork, and lifelong learning skills

Certificate Programs

Total Credits

Certificate programs typically require 12-18 credits of required courses from a curriculum found in the *College Catalog*. There are exceptions, with some programs requiring additional credits of coursework.

Courses numbered below the 1000-level do not count toward the total credits required to earn a certificate.

Programs requiring 16 or more credits are eligible for federal financial aid. Options may exist for programs with less than 16 credits; students should consult with the Financial Aid Office for more information.

General Education Requirements

No general education courses are required for certificate programs.

Required Program Specific Coursework

Students will select a specific emphasis area of interest with a curriculum of courses required to complete a certificate program.

Program Specific Coursework	**12-18 credits**
Total Credits for Certificate	**12-18 credits**

Diploma Programs

Total Credits

Diplomas require a minimum of 24-48 credits of courses from a suggested curriculum list appearing in the *College Catalog*. There are exceptions, with some programs requiring additional credits of coursework.

Courses numbered below the 1000-level do not count as a part of the total credits.

General Education Requirements

Students must take nine to ten (9-10) credits of general education requirements including the following: three (3)

credits of written communication, three to four (3-4) credits of quantitative reasoning, and three (3) additional credits from either oral communication, personal development, lab science, or social science electives.

DIPLOMA PROGRAM **General Education Requirements: three (3) credits from Written Communication three to four (3-4) credits from Quantitative Reasoning and any three (3) credits from the following four (4) categories (excluding Written Communication and Quantitative Reasoning courses):**	
Written Communication (3 credits selected from the list)	**BSAD-1210** Business Communication (3) **OR** **ENGL-1000** Workplace Writing (3) **OR** **ENGL-1010** English Composition I (3) OR Higher
Quantitative Reasoning (3-4 credits selected from the list)	**BSTC-1500** Business Mathematics (3) **OR** **MATH-1010** Intermediate Algebra (4) **OR** **MATH-1020** Technical Mathematics (3)
Any three (3) additional credits from the following four (4) categories:	
Oral Communication	**SPCH-1110** Public Speaking (3) **OR** **SPCH-1200** Human Communication (3)
Personal Development	**PRDV-1010** Achieving College Success (3)
+Lab Science	**Choose from:** • **Any BIOS Biological Lab Science (4)** • **Any CHEM Chemistry Lab Sci (4)** • **Any PHYS Physical Lab Science (4)** • **INFO-1210** Intro to Computer Science (3) • **LPNR-1110** Body Structure & Function (4)
Social Science	**Choose from:** • **ANTH** (Anthropology) • **ECON** (Economics) • **HIST** (History) • **POLS** (Political Science) • **PSYC** (Psychology) • **SOCI** (Sociology)

Required Program Specific Coursework

Students will select a specific emphasis area of interest with a curriculum of courses required to complete a diploma program.

Program Specific Coursework **15-38 credits**

Total Credits for Diploma **24-48 credits**

Associate Degree in Nursing (AD-N)

The Associate Degree in Nursing (AD-N) requires successful completion of 72 credit hours of nursing and general education courses. After successful completion of the AD-N program, graduates are eligible to take the National Council Licensure Examination for the Registered Nurse.

Total Credits

The Associate Degree in Nursing requires 72 credit hours. The student must successfully complete 18 credits of general education requirements (see below), an additional ten (10) hours of prerequisites (see below), and be College Algebra ready for the program.

General Education Requirements

Students must complete 18 credits as described below:

ASSOCIATE DEGREE IN NURSING **General Education Total Credits: 18 credits**	
Written Communication * (3 credits)	**ENGL-1010** English Composition I (3)

Quantitative Reasoning (4 credits)	**CHEM-1050** Introductory Chemistry* or higher
Lab Science (8 credits)	**BIOS-2250** Anatomy & Physiology I and **BIOS-2260** Anatomy & Physiology II
Social Science (3 credits)	**PSYC-1810** Introduction to Psychology

Additional Prerequisite Courses

BIOS-2460	Microbiology	4
PSYC-2150	Life Span: Growth & Development	3
Total additional prerequisite courses		**7 credits**

Required Program Specific Coursework

Students will be required to complete program specific coursework after completing all prerequisites and acceptance to the AD-N program.

Program Specific Coursework **47 credits**

Minimum Total Credits for AD-N 72 credits

Associate of Applied Science Degree (AAS)

The Associate of Applied Science (AAS) degree primarily prepares students for careers in a variety of technical and vocational areas: applied technologies, business, health, physical education, and the social sciences. In most instances, student are also able to transfer all or part of the credits earned for an AAS degree to a bachelor degree-granting institution.

Total Credits

All associate degrees require a minimum of 60 credit credits. To qualify for the AAS, the student must successfully complete the following required general education requirements (15-17 credits), as well as a minimum of 43-45 credits of College-approved program specific coursework within an emphasis area.

In some cases, students may be required to complete developmental courses prior to taking certain other courses. Courses numbered below the 1000-level do not count as part of the total credits for the Associate of Applied Science degree.

General Education Requirements

Students must select one course from each of the five categories below for a total of 15-17 credits:

ASSOCIATE OF APPLIED SCIENCE **General Educational Total Credits: 15-17 credits**	
Written Communication (3 credits selected from the list)	**BSAD-1210** Business Communication (3) **OR** **ENGL-1000** Workplace Writing (3) **OR** **ENGL-1010** English Composition I (3)
Oral Communication (3 credits selected from the list)	**SPCH-1110** Public Speaking (3) **OR** **SPCH-1200** Human Communication (3)
Quantitative Reasoning (3-4 credits selected from the list)	**BSTC-1500** Business Mathematics (3) *(not accepted for the Practical Nursing Program)* **OR** **MATH-1010** Intermediate Algebra (4) **OR** **MATH-1020** Technical Mathematics (3) **OR** **MATH-1150 (or greater)** College Algebra (4) *(required for Info Technology)*
Personal Development (3 credits selected from the list)	**PRDV-1010** Achieving College Success (3) **OR** **BSTC-2420** Career Development Capstone (3)
Three (3) to four (4) credits must be selected from one of the following two areas:	
Lab Science	**Choose from:** • **Any BIOS Biological Lab Science (4)** • **Any CHEM Chemistry Lab Sci (4)**

	• **Any PHYS Physical Lab Science (4)** • **INFO-1210** Intro to Computer Science (3) • **LPNR-1110** Body Structure & Function (4)
Social Science	**Choose from:** • **ANTH** (Anthropology) • **ECON** (Economics) • **HIST** (History) • **POLS** (Political Science) • **PSYC** (Psychology) • **SOCI** (Sociology)

Required Program Specific Coursework

Students will select a specific emphasis area of interest in which they will complete a specific recommended curriculum to complete an AAS degree.

Program Specific Coursework **43-45 credits**

Minimum Total Credits for AAS **60 credits**

Associate of Arts Degree (AA)

Associate of Fine Arts Degree (AFA)

An Associate of Arts (AA) degree and the Associate of Fine Arts degree prepare students for careers and/or advanced study at a four-year college or university.

Total Credits

All associate degrees require a minimum of 60 credit credits. To qualify for the AA or AFA, the student must successfully complete the following required general education requirements (31-32 credits), as well as a minimum of 28-29 credits of College-approved program specific coursework within an emphasis area.

In some cases, students may be required to complete developmental courses prior to taking certain other courses. Courses numbered below the 1000-level do not count as part of the total credits for the AA or AFA degrees.

General Education Requirements

The general education requirements for associate degrees at WNCC are consistent with the College's philosophy statement and role and mission statement, which state that all students should demonstrate competencies that will allow them to seek higher education, participate as an active member in society, or achieve responsible careers in a contemporary work environment. More specifically, students in career-oriented areas should be able to communicate, calculate, evaluate, and understand the social and scientific implications of the world around them. Students seeking transfer to a baccalaureate program should complete a general education requirement, which is broad in scope and requires an in-depth level of inquiry.

ASSOCIATE OF ARTS **ASSOCIATE OF FINE ARTS** **General Education Total Credits: 31-32 credits**	
Written Communication (6 credits)	**ENGL-1010** English Composition I (3) **AND** **ENGL-1020** English Composition II (3)
Oral Communication (3 credits)	**SPCH-1110** Public Speaking (3) **OR** **SPCH-1200** Human Communication (3)
Humanities (6 credits from 2 different areas)	**Choose from:** **AESTHETICS:** **ARTS-1050** (Intro to Art History and Criticism I) (3) **ARTS-1060** (Intro to Art History and Criticism II) (3) **HUMS-1100** (Intro to Humanities) (3) **MUSC-1010** (Music Appreciation) (3) **MUSC-1420** (American Popular Music) (3) **THEA-1010** (Intro to Theatre) (3) **THEA-1500** (History of Film) (3) **ENGLISH:** **ENGL-2050** (American Literature, 1620-1865) (3) **ENGL-2070** (American Literature, 1865 – Present) (3) **ENGL/EDUC-2110** (Children's Lit) (3)

	ENGL-2130 (Survey of English Literature) (3) **ENGL-2190** (The Novel) (3) **<u>FOREIGN LANGUAGE</u>:** **SPAN-1010** (Elem Spanish I) (5) **SPAN-1020** (Elem Spanish II) (5) **SPAN-2010** (Inter Spanish I) (3) **SPAN-2020** (Inter Spanish II) (3) **<u>PHILOSOPHY</u>:** **PHIL-1010** (Intro to Philosophy) (3) **PHIL-1060** (Intro to Ethics) (3) **PHIL-2250** (Environ Ethics) (3) **PHIL-2610/RELS-2610** (Comparative Religions/Intro to Comparative Religions) (3) **<u>WORLD HISTORY</u>:** **HIST-2100** (World Civilization, 4000 BC – 1500 AD) (3) **HIST-2110** (World Civilization, 1500 AD – Present) (3)
Math (3-4 credits)	**Choose from:** • **MATH-1150** (College Algebra) (4) • **MATH-1170** (Mathematical Applications) (3) • **MATH-1180** (Math for Elementary Teachers) (3) • **MATH-2170** (Applied Statistics)
Lab Science (4 credits from one area)	**Choose from:** • **Any BIOS Biological Lab Science (4)** • **Any CHEM Chemistry Lab Sci (4)** • **Any PHYS Physical Lab Science (4)**
Personal Development (3 credits)	**PRDV-1010** Achieving College Success (3)
Social Science (6 credits from 2 different areas)	**<u>ECON / POLITICAL SCIENCE / HISTORY</u>:** **ECON-1230** (General Economics) (3)
	ECON-2110 (Principles of Macroeconomics) (3) **ECON-2120** (Principles of Microeconomics) (3) **HIST-2010** (American History I) (3) **HIST-2020** (American History II) (3) **HIST-2060** (History of Nebraska) (3) **HIST-2580** (History of the American West((3) **POLS-1000** (American Government) (3) **POLS-1600** (International Relations) (3) **<u>RACE / ETHNICITY / GENDER</u>:** **ANTH-2130** (Mexican-American/Native-American Cultures) (3) **PHIL-1060** (Introduction to Ethics) (3) **PHIL-2610/RELS-2610** (Comparative Religions/Intro to Comparative Religions) (3) **SOCI-2150** (Issues for Unity and Diversity) (3) **SOCI-2250** (Marriage and Family) (3) **<u>SOCIAL / BEHAVIORAL</u>:** **PSYC-1810** (Intro to Psychology) (3) **SOCI-1010** (Intro to Sociology) (3)

Required Program Specific Coursework

Students will select a specific emphasis area of interest in which they will complete a specific recommended curriculum to complete an AA degree.

Program Specific Coursework **28-29 credits**

Minimum Total Credits for AA **60 credits**

Associate of Science Degree (AS)

An Associate of Science (AS) degree prepares students for careers and/or advanced study at a four-year college or university.

These institutions have their own requirements for a bachelor's degree to be completed at transfer institution. Students who plan to transfer to a four-year college or university should consult their faculty advisor and transfer advisor early in their WNCC enrollment to determine their curriculum to best meet future needs. In addition, it is advisable to look at possible transfer institutions to compare and align what they look for in their first two-years with what is offered at WNCC. Creating the closest match possible will facilitate a smooth transition from WNCC to the receiving/transfer institution.

Total Credits

All associate degrees require a minimum of 60 credit credits. To qualify for the AS, the student must successfully complete the following required general education requirements (33-34 credits), as well as a minimum of 26-27 credits of College-approved program specific coursework within an emphasis area.

In some cases, students may be required to complete developmental courses prior to taking certain other courses. Courses numbered below the 1000-level do not count as part of the total credits for the Associate of Science degree.

General Education Requirements

The general education requirements for associate degrees at WNCC are consistent with the College's philosophy statement and role and mission statement, which state that all students should demonstrate competencies that will allow them to seek higher education, participate as an active member in society, or achieve responsible careers in a contemporary work environment. More specifically, students in career-oriented areas should be able to communicate, calculate, evaluate, and understand the social and scientific implications of the world around them. Students seeking transfer to a baccalaureate program should complete a general education requirement, which is broad in scope and requires an in-depth level of inquiry.

ASSOCIATE OF SCIENCE **General Education Total Credits: 33-34 credits**	
Written Communication (6 credits)	**ENGL-1010** English Composition I (3) **AND** **ENGL-1020** English Composition II (3)
Oral Communication (3 credits)	**SPCH-1110** Public Speaking (3) **OR** **SPCH-1200** Human Communication (3)
Humanities (3 credits from 1 area)	**Choose from:** **AESTHETICS:** **ARTS-1050** (Intro to Art History and Criticism I) (3) **ARTS-1060** (Intro to Art History and Criticism II) (3) **HUMS-1100** (Intro to Humanities) (3) **MUSC-1010** (Music Appreciation) (3) **MUSC-1420** (American Popular Music) (3) **THEA-1010** (Intro to Theatre) (3) **THEA-1500** (History of Film) (3) **ENGLISH:** **ENGL-2050** (American Literature, 1620-1865) (3) **ENGL-2070** (American Literature, 1865 – Present) (3) **ENGL/EDUC-2110** (Children's Lit) (3) **ENGL-2130** (Survey of English Literature) (3) **ENGL-2190** (The Novel) (3) **FOREIGN LANGUAGE:** **SPAN-1010** (Elem Spanish I) (5) **SPAN-1010** (Elem Spanish II) (5) **SPAN-2010** (Inter Spanish I) (3) **SPAN-2020** (Inter Spanish II) (3)

	PHILOSOPHY: **PHIL-1010** (Intro to Philosophy) (3) **PHIL-1060** (Intro to Ethics) (3) **PHIL-2250** (Environ Ethics) (3) **PHIL-2610/RELS-2610** (Comparative Religions/Intro to Comparative Religions) (3) **WORLD HISTORY:** **HIST-2100** (World Civilization, 4000 BC – 1500 AD) (3) **HIST-2110** (World Civilization, 1500 AD – Present) (3)
Math (3-4 credits) **(15-16 combined Science/Math credit minimum requirement for AS degree)**	**Choose from:** • **MATH-1150** (College Algebra) (4) • **MATH-1180** (Math for Elementary Teachers) (3) • **MATH-2170** (Applied Statistics)
Natural Science (4 credits from one area) (**15-16 combined Science/Math credit minimum requirement for AS degree)**	**Choose from:** • **Any BIOS Biological Lab Science (4)** • **Any CHEM Chemistry Lab Sci (4)** • **Any PHYS Physical Lab Science (4)**
Personal Development (3 credits)	**PRDV-1010** Achieving College Success (3)
Social Science (3 credits from 1 area)	**ECON / POLITICAL SCIENCE / HISTORY:** **ECON-1230** (General Economics) (3) **ECON-2110** (Principles of Macroeconomics) (3) **ECON-2120** (Principles of Microeconomics) (3) **HIST-2010** (American History I) (3) **HIST-2020** (American History II) (3) **HIST-2060** (History of Nebraska) (3)
	HIST-2580 (History of the American West((3) **POLS-1000** (American Government) (3) **POLS-1600** (International Relations) (3) **RACE / ETHNICITY / GENDER:** **ANTH-2130** (Mexican-American/Native-American Cultures) (3) **PHIL-1060** (Introduction to Ethics) (3) **PHIL-2610/RELS-2610** (Comparative Religions/Intro to Comparative Religions) (3) **SOCI-2150** (Issues for Unity and Diversity) (3) **SOCI-2250** (Marriage and Family) (3) **SOCIAL / BEHAVIORAL:** **PSYC-1810** (Intro to Psychology) (3) **SOCI-1010** (Intro to Sociology) (3)

Required Program Specific Coursework

Students will select a specific emphasis area of interest in which they will complete a specific recommended curriculum to complete an AS degree.

Program Specific Coursework **26-27 credits**

Minimum Total Credits for AS **60 credits**

Academic Policies

Academic Transfer

Transferring Credits to WNCC

Non-Traditional or Experiential Learning Credit

Students whose special study or other unique experiences have given them proficiency equal to that ordinarily attained by students completing the course may be granted credit in that course in accordance with the following regulations:

- Non-traditional credit may not be acquired in college courses in which the student has previously enrolled or in academic disciplines where credit has already been earned in a more advanced course.
- WNCC participates in the College Level Examination Program (CLEP) in both subject and general areas. Satisfactory scores in the general examination of CLEP may be used to earn up to 25 credits. Details concerning the earning of credit by this method can be obtained directly from the Career Pathways and Advising Center.
- Credit may be awarded for those courses covered by the College Board's Advanced Academic Information Placement Program (AP) examinations. An official report must be submitted to the Registrar's Office documenting that the student has completed the examination with a rating of at least "3" in order for credit to be awarded.
- Credits by Advanced Placement or CLEP examinations earned by persons not enrolled at WNCC are held pending subsequent enrollment. A grade of "P" is listed. Failures are not recorded.
- WNCC accepts Military Training credit as recommended by the American Council on Education.

A maximum of 12 credits of experiential learning credit may be earned in subject areas included in the *College Catalog*. Inquire with the Registrar for further information.

Note: Not all colleges accept credits by advanced placement or experiential learning. Students earn those credits at their own risk.

Transfer of Credits to WNCC

Students wishing to transfer into WNCC credits earned at other accredited post-secondary institutions must have an official transcript sent directly from that institution to the WNCC Registrar for evaluation. The Registrar and the applicable department faculty determine transferability based on equivalency of courses requested for transfer to WNCC. As part of that determination, the College evaluates the depth and breadth of course content. Only courses that are similar in content are applied toward a WNCC degree, diploma, or certificate. Nontraditional coursework (CLEP, Experiential Learning Credit, etc.) must be documented and is subject to review by the Registrar and the appropriate division. Transfer credit is given for classes in which a grade of C- or better is earned from a regionally accredited institution. Transfer of courses from non-accredited institutions are subject to division approval.

Transferring Credits from WNCC

Associate Degrees

The Associate of Arts (AA) and Associate of Science (AS) degrees prepare students for transfer to a four-year college or university.

To receive a degree from Western Nebraska Community College, a student must meet the requirements stated previously in this catalog. AA and AS degrees are based on the requirements listed herein, and the emphasis area listings that follow are recommended courses of study. It is the student's responsibility to know the requirements for his or her chosen degree.

Four-year colleges and universities have their own requirements for a bachelor's degree. Students who plan to transfer to a four-year college/university should consult their faculty advisor and transfer advisor early in their WNCC career to determine the appropriate curriculum.

Any student planning to transfer to the University of Wyoming should be aware that the American Government course transfers; however, the student will be required to take a test in Wyoming History and Government to fulfill the Wyoming government and constitution requirement mandated by the State Legislature.

A student who lacks a high school diploma or GED and is enrolled in academic transfer courses may take a maximum of 15 credits. Enrolling in further academic transfer courses requires a high school diploma or GED. Additionally, students accumulating 12 credits of coursework must take the ACCUPLACER® or provide documentation verifying an ACCUPLACER® exemption before enrolling in more courses.

The Nebraska Transfer Initiative

The Nebraska Transfer Initiative is a cooperative effort by Nebraska's public and private higher education institutions to facilitate transfer of students who have

earned an Associate of Arts degree in to baccalaureate-level programs. The core of this initiative is a common general education cluster of courses. The student, in consultation with an assigned faculty advisor, transfer advisor, and the institution to which the student is transferring, should select the remainder of credits required for the Associate of Arts degree.

The initiative provides a smooth transition with a minimum loss of time and credit when the baccalaureate granting institution in Nebraska accepts it. Effectively, through this initiative, associate's and baccalaureate-granting institutions are equal partners in providing the first two years of a baccalaureate degree.

Essentially, any student who has successfully completed the courses identified in the articulated Associate of Arts General Education Core curriculum (below) with an equivalent of a C (2.0 on a 4.0 scale) or higher and is admitted in transfer to a participating institution is:

- granted standing comparable to current students who have completed the same number of equivalent credit courses toward an associate/baccalaureate level degree; and
- able to progress toward an associate/baccalaureate degree completion at a rate comparable to that of students who entered the associate/ baccalaureate institution as first-time freshmen.

Participating institutions in this initiative include:

- Bellevue University
- Central Community College Area
- Chadron State College
- Clarkson College
- College of Saint Mary
- Concordia College
- Grace University
- Hastings College
- Little Priest Tribal College
- Metropolitan Community College Area
- Midland Lutheran College
- MidPlains Community College Area
- Nebraska Christian College
- Nebraska Methodist College
- Nebraska Wesleyan University
- Northeast Community College Area
- Peru State College
- Southeast Community College Area
- Union College
- University of Nebraska
- Wayne State College
- Western Nebraska Community College
- York College

To view the Nebraska Transfer Initiative Associate of Arts degree courses matrix, visit **ncca.ne.gov/ncca/netransferinitiative.html**.

For more information on this Initiative and specific institutional requirements, please contact transfer advisor and the institution to which you are transferring.

Reverse Transfer

Students who transfer before they graduate from WNCC are eligible to take advantage of the reverse transfer program. Reverse transfer simply involves requesting transcripts be sent from the credit granting institution to WNCC for review. If the courses taken at the credit granting institution meet the missing requirements for a student's associate's degree, WNCC will award the degree. This program allows students to finish their associate's degree while pursuing their studies at another accredited institution of higher education.

Assessment Philosophy & Purpose

As an institution, WNCC has a tradition of assessing student learning. As the College looks to the future, it seeks to improve academic achievement. As a part of the mission of the College, WNCC believes that the philosophy and purpose of assessing student academic achievement is to accomplish the following:

- improve student learning;
- involve all members of the College community and appropriate advisory committees;
- measure student learning in all phases of the academic program, but especially the competence of graduates; and
- implement quality improvement based on data collection, analysis, planning, and allocation of resources.

ACCUPLACER® Basic Skills Assessment

WNCC strives to assist students in the successful pursuit of educational and career goals. In order to best serve the needs of students and contribute to their success, it is necessary that WNCC know the characteristics of its students both as individuals and as a group. To assist in effective advising, a pre-enrollment assessment called

ACCUPLACER® is used. ACCUPLACER® measures basic skills in the areas of writing, reading, and mathematics and helps determine placement in courses with an assessment score prerequisite.

ACCUPLACER® is administered to:

- students enrolling in English, reading, or mathematics courses;
- students enrolling in courses with English, reading, or math prerequisites; or
- students who have accumulated 12 credits of coursework.

Notes:

- The ACCUPLACER® requirement is waived for students who already possess a college degree from an accredited institution of higher education. The Registrar must receive official transcripts verifying the degree prior to enrollment.

  A required degree of performance is necessary prior to enrolling in English, reading, and mathematics courses.

  Successful completion of ENGL-1010 (English Composition I), ENGL-0070 (Reading Techniques), and/or MATH-1150 (College Algebra) or a higher-level math course exempts the student from the corresponding ACCUPLACER® requirement.
- With a nominal retest fee, the student may retake ACCUPLACER®. However, it is recommended that the student wait two (2) weeks and complete 15 contact credits of documented intervening instruction before retesting. Study guides are available in the Student Life and Engagement Center. For further information regarding ACCUPLACER®, contact 308.635.6050.

Other Outcomes Assessment

Assessment is an ongoing process that provides information about student learning through the measurement of knowledge, skills, or abilities against defined competencies or learning outcomes. As the assessment program at WNCC evolves in response to findings acquired through various projects and activities, it is necessary that all members of the College community, including faculty, students, staff, and administration, assist the institution in its effort to improve teaching and learning.

Attendance

Attendance and participation are necessary and required components to successfully completing a course. Successful students attend class regularly, come to class prepared, and engage in class activities. Classes at WNCC are set up in a format in which students will not only be participating in lectures and discussions, but they will also be experiencing a variety of activities through the semester that will help them master the material. It is vital for students' success that they have the ability to experience these different learning tools for maximum benefit from the course. Students who are repeatedly tardy or absent from class will be missing vital components necessary for their success. Students should review their respective instructor's attendance policy found in the class syllabus.

To make students aware of the ramifications of excessive absences, faculty may, at their discretion, utilize an Attendance Warning Notice. Faculty may also administratively withdraw students from a course for failing to attend. Such action cannot be taken after the last day to withdraw from a class as established by the Registrar each semester, and students have the right to appeal that action. Faculty may, however, continue to issue an Attendance Warning Notice as necessary after the last day to withdraw from class.

Student who stop attending class should not assume they have been administratively withdrawn and should follow the institution's formal withdrawal process for courses or from the College.

Cooperative Education (Internships and Practicums)

Cooperative Education at WNCC provides a link between various outside businesses, industries, or agency elements enhancing a student's achievements while pursuing a specific program of study. Cooperative Education experiences make on campus studies more meaningful and stimulating by providing students with opportunities to apply classroom theory to real world situations. Cooperative Education provides real-world situations to encourage the development of good work habits and attitudes. These opportunities also cultivate an understanding of the importance of taking professional responsibility and initiative, and to attain the interpersonal skills to work harmoniously with others. Students will obtain first hand appraisal of their capabilities, interests, and preferences.

Cooperative Education consists of two options:

- Internships
- Practicums

Students with an interest in and/or requirement for an internship or practicum will make appropriate arrangements through the coordinating instructor in their area. Certain programs of study at WNCC have

Cooperative Education opportunities included as part of the regular curriculum.

Cooperative Education is available during fall, spring, or summer semesters and is open to regular students who have declared a major in the field in which their internship or practicum is offered. The hours earned through internship and practicum will become part of the student's regular course load for that semester. Standard tuition and fees are assessed and must be paid as with any other credit-bearing course. A student earns one college credit per 60 hours of internship or 45 hours of practicum experience.

In order to take part in a Cooperative Education project, students must meet the GPA and completed credit hour requirements as outlined in the master syllabus for each program. Prior to beginning an Internship or practicum, the employer, coordinating instructor, and student meet to develop a training agreement. The coordinating instructor, after consulting with the employer and the student, determines the number of credits hours the student will earn upon completion of the experience. The number of credit hours earned will depend upon the length of employment and total hours worked.

Once the training agreement is in place, the coordinating instructor will make periodic visits or phone calls to the respective internship or practicum site for evaluative purposes and will ultimately determine the final grade. A maximum of 12 internship or practicum credit hours will be applied toward a degree.

Note: A veteran may not be eligible to receive VA benefits and participate in Cooperative Education. Please check with the Military and Veterans Affairs Office before proceeding.

Course/Credit Information

Course Abbreviations

Western Nebraska Community College uses the following standard abbreviations for academic subject areas as part of its course designations and descriptions. The first four characters, as presented below, represent the specific academic subject area.

ACCT Accounting
AGRI Applied Agriculture Technology
ADNR Nursing (Associate Degree)
AMDT Advanced Manufacturing Technology
ANTH Anthropology
ARTS Art
ATHC Physical Education/Coaching
AUTB Auto Body Technology
AUTO Automotive Technology
AVIA Aviation Maintenance
BIOS Biological Sciences
BSAD Business Administration
BSTC Business Technology
CHEM Chemistry
CRIM Criminal Justice
DRAF Drafting Technology
ECED Early Childhood Education
ECEN Electrical & Computer Engineering
ECON Economics
EDUC Education
EMSP Emergency Medical Services
ENGL English
ENGR Engineering
ESLX English as a Second Language
GEOL Geology
GBST Global Studies
HIMS Health Information Technology
HIST History
HLTH Health Occupations
HUMS Humanities
HUSR Human Services
INFO Information Technology
LPNR Nursing (Practical)
MATH Mathematics
MEDT Medical Laboratory Technician
MNGT Management
MRKT Marketing
MUSC Music
NURA Nursing (Assistant/Aide)
NURS Nursing
PHED Physical Education
PHIL Philosophy
PHOT Photography
PHYS Physical Sciences
POLS Political Science
PRDV Personal Development
PSYC Psychology
REES Real Estate
SOCI Sociology
SPAN Spanish
SPCH Speech
SURT Surgical Technology
THEA Theatre Arts
TRAN Transportation
UTIL Powerline Construction and Maintenance
WELD Welding Technology

Course Numbering

1. Courses offered at Western Nebraska Community College have an eight-character code grouped in three (3) sections.
2. The first four characters (NNNNxxxx) represent the academic subject area in which the course is normally taught.
3. The fifth character (xxxxNxxx) represents the level of the course.
4. The sixth, seventh, and eighth characters (xxxxxNNN) represent the specific course number.

This system of course coding provides identification of courses by discipline and level as well as transferability with other institutions.

1. If both the fifth and sixth characters are "zero" (xxxx00xx) these courses are developmental in nature. Developmental courses do not meet graduation requirements for associate degrees, diplomas, or certificates.
2. If only the fifth character is a "zero" (xxxx0xxx) the courses are not transferable and do not meet graduation requirements for AA or AS degrees, but meet graduation requirements for the AAS degree.
3. If the fifth character is "one" (xxxx1xxx) it is a freshman level course offering; and if "two" (xxxx2xxx) a sophomore level course offering.
4. The sixth and seventh characters are assigned to identify each specific course.
5. All special topics seminars end in "980" (xxxxx980) and directed independent studies in "990" (xxxxx990).

Course Offerings

The College reserves the right to select the courses offered during any semester. Course offerings are announced in the official schedule for the semester but are contingent upon sufficient enrollment levels and staff availability. Course scheduling is subject to change without prior notification.

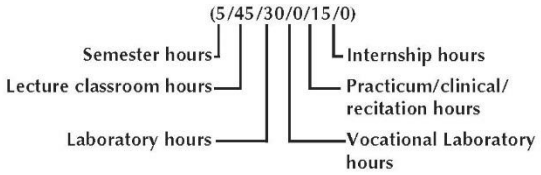
Credit

The unit of measure for a course is a credit; one credit is earned in a course that is scheduled for one class hour per week for a 15-week semester. An exception to this rule is for labs associated with a lecture course. For labs, two or three class credits in the laboratory are required for a single credit.

Credits for each course are indicated after the course title and are awarded in accordance with the minimum requirements as follows:

a. Lecture Classroom: A supervised lecture (15 contact credits per credit).
b. Laboratory: A supervised laboratory experience (30 contact credits per credit).
c. Vocational Laboratory: A supervised laboratory experience in a vocational field (45 contact credits per credit).
d. Practicum/Clinical/Recitation: A supervised experience in a clinical setting either on or off campus (45 contact credits per credit).
e. Internship: An outside work experience governed by the College (60 contact credits per credit).

The diagram below accompanies each course description and appears on the master syllabus for each course. The "formula" describes the credit/contact credits required for a course.



Note: *This policy is currently under review and expected to change during the 2019-20 academic year.*

The following courses may be taken more than once for credit:

- MUSC-1160 Band
- MUSC-1200 Collegiate Chorale
- MUSC-1230 Fire in the Pan Swingers
- MUSC-1240 Varsity Vocalise
- MUSC-1260 WNCC Studio Band
- SPCH-1210 Speech and Debate
- THEA-1760 All College Play

Graduation Requirements

In order to be accepted as a degree candidate, the student must show eligibility by completing a written degree audit with the Registrar by the graduation application deadline of the term they wish to graduate. This deadline is set for the second Friday of November for fall graduation, the second Friday of April for spring graduation, and the second Friday of June for summer graduation. Students must also meet the following minimum qualifications:

- all entrance requirements must be fulfilled;
- all financial obligations to the College must be paid; and
- a minimum of 60 credits must be earned with a grade point average of at least "C" on all WNCC credits.

The commencement ceremony takes place each year at the close of the spring semester.

Residency Requirements for Graduation

Students must complete 25% of their degree requirements from WNCC.

Any exceptions to this requirement must meet with the express approval of the Vice President of Educational Services.

Program Review

A formal review of all instructional programs offered by Western Nebraska Community College takes place on a seven-year cycle, using a process developed by the Nebraska Coordinating Commission for Postsecondary Education (CCPE). In addition, all instructional programs are reviewed, as required, by internal departments and committees. Finally, advisory committees comprised of business and industry representatives provide recommendations regarding program content. A listing of the advisory committees of the College appears on page 11 of this catalog.

Tests and Examinations

Tests and examinations are an integral part of education. Not only do they provide motivation for study, they are used in the assessment of learning assessments and the evaluation of educational objectives. Tests and examinations may be administered in all courses at the discretion of the instructor.

Programs of Study

(Pre) Agriculture

AS.0100 (61 credits)
Associate of Science
Scottsbluff

The pre-agricultural emphasis area is designed to provide the student with a course of study that allows him/her the opportunity to 1) complete an Associate of Science (AS) degree at WNCC and 2) the first two years of coursework for articulation with the College of Agricultural Sciences and Natural Resources at the University of Nebraska-Lincoln toward a Bachelor's of Applied Science degree.

The bachelor's-level courses through UNL are offered both on the main WNCC campus and online. This allows students in the Panhandle an opportunity to complete a bachelor's degree program at home.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a biologist. Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics and evolution.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic biological principles to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to biology and the professional responsibilities of a biologist.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to life science concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Program Requirements

AS General Education Core	**33-34 credits**
Class	**Credits**
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements	**27-28 credits**
Total AS Requirements	**61 credits**

Recommended Plan of Study

1st Semester		**Credits**
BIOS-1010	General Biology (101/101L)	4
ENGL-1010	English Composition I (151)	3
MATH-1150	College Algebra (101)	4
PRDV-1010	Achieving College Success	3
	Social Sciences GE elective*	3
	Total Credits	**17**
2nd Semester		**Credits**
BIOS-1380	General Zoology (112/112L)	4

BIOS-2460	Microbiology (111)	4
MATH-1210	Trigonometry (102)	3
	Oral Communication GE elective**	3
	Total Credits	**14**
3rd Semester		**Credits**
BIOS-2120	Genetics (206)	4
CHEM-1090	General Chemistry (109)	4
ENGL-1020	English Composition II (101)	3
PHYS-1300	Physics I (141)	5
	Total Credits	**16**
4th Semester		**Credits**
BIOS-1300	General Botany (109)	4
CHEM-1100	General Chemistry II (110)	4
STAT-2170	Applied Statistics (218)	3
	Humanities GE elective	3
	Total Credits	**14**
	Total AS Credits	**61**

* *UNL prefers ECON-2110 (Principles of Microeconomics) and ECON-2120 (Principles of Macroeconomics).*

** *UNL prefers SPCH-1110 (Public Speaking) – COMM-209 at UNL.*

Recommended Additions to the Program *(if time allows)*

Class		**Credits**
BIOS-2000	Introduction to Scientific Research	1
BIOS-1401	Biological Sciences Internship (Through UNL Extension Services)	1

Notes:

- UNL equivalent course numbers appear in parenthesis above.
- Students who plan to transfer to UNL should consult their faculty advisor and transfer advisor early in their WNCC career to determine their curriculum. Careful consideration should be given the course requirements of the Applied Science program at UNL to which the student is seeking admission. The following will serve as a guide to for those students:
  - UNL requires additional ACE electives. These can be taken through UNL as soon as students apply and are accepted for admission to UNL. These can also be taken while at WNCC. Courses offered at WNCC that satisfy the UNL ACE 9 requirement are HIST-2100 (HIST-120), HIST-2110 (HIST-121), and POLS-1600 (POLS-160).
  - Students who intend to transfer to UNL are encouraged to apply for admission early in their program. ACE elective classes can be taken through UNL during their time at WNCC to lessen the credit load in the fourth semester and additionally guarantee maximum credit transfer.

Applied Agriculture Technology

Diploma
Certificate
Scottsbluff

The Applied Agriculture Technology program emphasizes technical knowledge and skills related to crop production and livestock operations. Coursework provides learning related to agricultural machinery use and operation, facility and equipment maintenance, regulations governing agriculture, plant science, and animal science.

Program Outcomes:

- Demonstrate recognition of agricultural facility operations and compliance needs.
- Demonstrate understanding of how to safely operate agricultural machinery.
- Demonstrate awareness of broader issues facing the agricultural industry, both current and future.
- Obtain industry credentials recognized by the local workforce.
- Apply skills and abilities identified as WNCC's five general educational goals.
- Successfully obtain a job in agriculture operations.

Diploma

D2.0199 (34 credits)

To earn a diploma in Applied Agriculture Technology, students must complete nine (9) credits of general education requirements and 25 credits of required applied ag courses, 16 of which can be earned by completing the requirements for the Applied Agriculture Basic certificate.

Recommended Plan of Study

General Education Requirements 9 credits

Course		**Credits**
ENGL-1000	Workplace Writing (or higher)*	3
MATH-1020	Technical Mathematics (or higher)*	3
PRDV-1010	Achieving College Success	3

**Written Communication and Qualitative Reasoning selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Core Program Requirements 25 credits

Course		Credits
AGRI-1005	Intro to Applied Agriculture	3
AGRI-1010	Agricultural Regulations or Elective (see advisor)	3
AGRI-1020	Weed and Pest Control	3
AGRI-1100	Agriculture Machinery	3
AGRI-1370	Water Systems Management	3
AGRI-1400	Ag Commercial Vehicle Operation	3
AGRI-2000	Emerging Agriculture Issues	3
AGRI-2500	Field Internship	3
AMDT-1000	OSHA-10	1
Total Diploma Requirements		**34 credits**

Certificates

C1.0199A (16 credits) Applied Agriculture Basic

C1.0199B (16 credits) Agriculture Welder

WNCC offers two certificate programs in Applied Agriculture, a basic program and one focusing on welding. The credits earned for the basic applied agriculture certificate fulfill 16 credits of the requirements for a diploma in applied agriculture.

Recommended Plans of Study

Applied Agriculture Basic Certificate

Course		Credits
AGRI-1020	Weed and Pest Control	3
AGRI-1100	Agriculture Machinery	3
AGRI-1370	Water Systems Management	3
AGRI-1400	Ag Commercial Vehicle Operation	3
AGRI-2500	Field Internship	3
AMDT-1000	OSHA-10	1
	Total Certificate Credits	**16**

Agricultural Welder Certificate

Course		Credits
AGRI-1100	Agricultural Machinery	3
AGRI-1370	Water Systems Management	3
AMDT-1000	OSHA-10	1
	Agricultural elective	3
	Welding electives	6
	Total Certificate Credits	**16**

Automotive Technology

Associate of Applied Science (AAS)
Certificate
Scottsbluff

Upon completion of the Automotive Technology program, the student possesses the skills and knowledge required for employment in the automotive industry. The Automotive Technology curriculum includes information on vehicles from a variety of manufacturers, both foreign and domestic.

Program Outcomes

- Demonstrate safe, clean work habits, attitudes, and proficiencies required in the area of automotive maintenance, problem diagnosis, repair, function/appearance restoration, or paint and refinishing.
- Demonstrate a professional work ethic and cooperative attitude necessary for successful employment in a service industry.
- Perform repairs under conditions similar to those found in the automotive industry.
- Work effectively with others in order to accomplish tasks requiring collaboration or teamwork to complete the job.
- Research shop manuals and Internet sites for correct repair procedures or specifications and write a descriptive work order upon completion of repairs.
- Identify, select, and utilize correct tools, workshop techniques, and equipment to accomplish complete projects commonly found in the automotive industry.
- Apply individual and clustered skill sets listed in the competency task lists relating to various aspects of automotive industry maintenance and repair.

Associate of Applied Science

AAS.4706D (64-66 credits)

For the Associate of Applied Science degree in Automotive Technology, students will complete 64-66 credits, which includes a minimum of 15 general education requirements.

Notes

- Students may enroll in an internship after maintaining a 3.0 GPA in 12 or more credits of coursework in automotive technology.

Program Requirements

AAS General Education Core 15-17 credits

Class	Credits
Written Communication*	3
Oral Communication	3
Quantitative Reasoning*	3-4
Social or Lab Science	3-4
Personal Development	3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Core Program Requirements 49 credits

Total AAS Requirements 64-66 credits

Recommended Plan of Study

1st Semester		Credits
AUTO-1100	Engine Repair I	3
AUTO-1110	Engine Repair II	3
AUTO-1235	Automotive Brake Systems	4
AUTO-1240	Suspension, Steering, & Alignment	3
AUTO-1330	Chassis Electrical	3
	Total Credits	**16**

2nd Semester		Credits
AUTO-1260	Automatic Transmission Fundamentals and Servicing	3
AUTO-1290	Manual Transmission & Drivetrain	3
AUTO-1300	Advanced Automatic Transmissions	3
AUTO-1340	Automotive Body Electrical	3
AUTO-1350	Automotive Heating & A/C	4
PRDV-1010	Achieving College Success	3
	Total Credits	**19**

3rd Semester		Credits
AUTO-1370	Ignition Systems	3
AUTO-1390	Computerized Engine Management Systems	3
AUTO-2500	Automotive Internship or Technical Elective	3
	Quantitative Reasoning GE elective	3-4
	Social or Lab Science GE elective	3-4
	Total Credits	**15-17**

4th Semester		Credits
AUTO-1120	Engine Removal & Reinstallation	2
AUTO-1375	Fuel Systems	3
AUTO-1410	Emission Control Systems & Drivability	3
	Oral Communication GE elective	3
	Written Communication GE elective	3
	Total Credits	**14**
	Total AAS Credits	**64-66**

Certificates

C2.4706E (16 credits) Powertrain & Chassis Repair
C2.4706F (16 credits) Drivetrain & Under Hood Repair

The Automotive Technology program at WNCC offers two certificates, one in powertrain and chassis repair and another in drivetrain and under hood repair. Each of the two certificates is designed as a standalone program, or they can be combined to fulfill 32 of the 64-66 credits required for the Associate of Applied Science degree in Automotive Technology.

Recommended Plans of Study

Powertrain and Chassis Repair Option

Semester		Credits
AUTO-1100	Engine Repair I	3
AUTO-1110	Engine Repair II	3
AUTO-1235	Automotive Brake Systems	4
AUTO-1240	Suspension, Steering, & Alignment	3
AUTO-1330	Chassis Electrical	3
	Total Certificate Credits	**16**

Drivetrain and Under Hood Repair Option

Semester		Credits
AUTO-1260	Automatic Transmission Fundamentals and Servicing	3
AUTO-1290	Manual Transmission & Drivetrain	3
AUTO-1300	Advanced Automatic Transmissions	3
AUTO-1340	Automotive Body Electrical	3
AUTO-1350	Automotive Heating & A/C	4
	Total Certificate Credits	**16**

Aviation Maintenance

Associate of Applied Science
Certificate
Sidney

The Aviation Maintenance program at WNCC is approved by the Federal Aviation Administration (FAA). The program prepares students for entry-level aviation maintenance technician positions

The Aviation Maintenance program requires a minimum total of 1900 clock credits. Upon successful completion, the student is eligible to take the FAA examinations.

Technical Standards

Technical standards for the Aviation Maintenance program at Western Nebraska Community College are promulgated upon an extensive set of subject-area criteria which cover not only knowledge levels but skills demonstration established by the FAA in in Subpart D of Part 65 of the Federal Aviation Regulations (FAR's), part of Title 14 of the *Code of Federal Regulations*. The criteria can be found at **rgl.faa.gov/** and should be carefully reviewed by prospective students in order to best understand the scope and demands of training. The curriculum for the program is specified in Part 147 – Aviation Maintenance Technician Schools.

Program Outcomes

- Develop safe, clean work habits, attitudes, and skills.
- Develop a thorough knowledge of Federal Aviation Regulations.
- Acquire, develop, and apply both academic knowledge and practical skills related to all phases of aviation repair in preparation for sitting for the FAA exams.
- Perform repairs and other aviation maintenance functions under conditions similar to those in an aviation maintenance shop.
- Explore aviation technology careers.

Notes

- Course availability may differ from semester to semester. See advisor prior to registration.
- Credit for previous courses and military training can be applied toward the program requirements.

Associate of Applied Science

AAS.4901 (92 credits)

The AAS degree is designed to increase student opportunities in the field of aviation maintenance. Students must successfully complete a minimum of 15 credits of general education in addition to the aviation hours required for the certificate (see below). Students should consult with their academic advisor about how best to incorporate the general education requirements into their academic pathway.

NOTE: The credit hour requirement for a certificate in Aviation exceeds the College's definition for an AAS degree due to industry requirements.

Program Requirements

AAS General Education Core 15 credits

Class	Credits
Written Communication*	3
ENGL-1000 (Workplace Writing) recommended	
Oral Communication	3
SPCH-1200 (Human Communication) recommended	
Quantitative Reasoning*	3
MATH-1020 (Technical Math) recommended	
Social or Lab Science	3
ECON-1230 (General Economics) recommended	
Personal Development	3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Core Program Requirements 77 credits

See aviation requirements listed in the plan of study for the certificate program.

Total AAS Requirements 92 credits

Certificate

C2.4901 (72–78 credits)

The certificate in aviation maintenance is designed as a standalone program or to fulfill at least 77 credits of the AAS Degree.

NOTE: The credit hour requirement for a certificate in Aviation exceeds the College's definition for a certificate due to industry requirements.

Recommended Plan of Study

1st Semester		Credits
AVIA-1101	Ground Operations and Regulations	3.5
AVIA-1102	Applied Math for Aviation Maintenance	3.5
AVIA-1105	Aircraft Drawing, Fluid Lines, & Nav-Comm	3
AVIA-1106	Materials, Processes, & Corrosion	3.5

AVIA-1109	Applied Electrical Science for Aviation Maintenance	4.5
AVIA-1301	Airframe Systems I	1.5
	Total Credits	**19.5**
2nd Semester		**Credits**
AVIA-1202	Airframe Structure I	2.5
AVIA-1203	Airframe Structure II	2
AVIA-1204	Airframe Structure III	3
AVIA-1205	Airframe Structure IV	2.5
AVIA-1302	Airframe Systems II	3.5
AVIA-1303	Airframe Systems III	3.5
	Total Credits	**17**
3rd Semester		**Credits**
AVIA-2302	Airframe Systems IV	3
AVIA-2305	Airframe Systems V	3
AVIA-2307	Airframe Systems VI	3
AVIA-2401	Engine Cooling & Recip Theory	4
AVIA-2501	Powerplant Systems I	4
AVIA-2505	Engine Ignition	3.5
	Total Credits	**20.5**
4th Semester		**Credits**
AVIA-2402	Powerplant Reciprocating Engine Maintenance	4
AVIA-2403	Powerplant, Turbine Engines	4
AVIA-2502	Powerplant Systems II	4.5
AVIA-2503	Powerplant Electrical	3
AVIA-2504	Powerplant, Lubrication	1.5
AVIA-2511	Powerplant Propellers	3
	Total Credits	**20**
	Total Certificate Credits	**77**

Biology/Ecology

AS.2601A (61 credits)
Associate of Science
Scottsbluff

The Biology/Ecology emphasis area provides the student with comprehensive coverage of the natural world. This course of study is designed to meet the needs of students wishing to gain technical knowledge for entry into other related areas within the field of biology as well as those seeking a general acquaintance with the field.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a biologist. Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics and evolution.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic biological principles to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to biology and the professional responsibilities of a biologist.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to life science concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year College or university should consult their faculty advisor and transfer advisor early in their WNCC career to determine a curriculum best suited to their transfer goals.
- In addition to the general education requirements for the AS degree, 23 credits of core courses and 19

credits of electives are required for the degree in biology/ecology.

- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements — 23 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1380	General Zoology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4
MATH-1210	Trigonometry	3

Recommended Electives or Courses for Transfer (selected from below): — 19 credits

Class		Credits
BIOS-1300	General Botany (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4

Total AS Requirements — 61 credits

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
PRDV-1010	Achieving College Success	3
	Total Credits	**18**

2nd Semester		Credits
BIOS-1300	General Botany (and lab)	4
	or	
BIOS-1380	General Zoology (and lab)	
CHEM-1100	General Chemistry II (and lab)	4
ENGL-1020	English Composition II	3
	Oral Communication GE elective	3
	Total Credits	**14**

3rd Semester		Credits
BIOS-2120	Genetics (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
MATH-1210	Trigonometry	3
	Social Sciences GE elective	3
	Total Credits	**14**

4th Semester		Credits
BIOS-1300	General Botany (and lab)	4
	or	
BIOS-1380	General Zoology (and lab)	
BIOS-2460	Microbiology (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4
	Humanities GE elective	3
	Total Credits	**15**
	Total AS Credits	**61**

(Pre) Biomedical Research

AS.2601 (65 credits)
Associate of Science
Scottsbluff

The Pre-Biomedical Research emphasis area is designed to provide the student with a course of study that allows him/her the opportunity to be admitted to and successfully complete a degree program in biomedical research. This degree of study provides one student per year the opportunity to be accepted into the INBRE (Nebraska Biomedical Research Program) and attend one of six universities in Nebraska that participate in the program.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a scientist. Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic scientific principles to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to science and the professional responsibilities of a scientist.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to scientific concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.
- In addition to the general education requirements for the AS degree, 23 credits of core courses and 19 credits of electives are required for the degree in pre-biomedical research.
- Depending on the student's choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's or professional degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements — 23 credits

Class		Credits
BIOS-2250	Human Anatomy & Physiology I (and lab)	4
BIOS-2260	Human Anatomy & Physiology II (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4
MATH-1210	Trigonometry	3

Recommended Electives or Courses for Transfer — 19 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1380	General Zoology (and lab)	4
BIOS-2120	Genetics (and lab)	4

BIOS-2460	Microbiology (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4
Total AS Requirements		**65 credits**

Recommended Plan of Study

1st Semester		**Credits**
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
PRVD-1010	Achieving College Success	3
	Total Credits	**18**
2nd Semester		**Credits**
BIOS-1380	General Zoology (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
ENGL-1020	English Composition II	3
MATH-1210	Trigonometry	3
	Humanities GE elective	3
	Total Credits	**17**
3rd Semester		**Credits**
BIOS-2120	Genetics (and lab)	4
BIOS-2250	Human Anatomy & Physiology I (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
	Oral Communication GE elective	3
	Total Credits	**15**
4th Semester		**Credits**
BIOS-2260	Human Anatomy & Physiology II (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4
	Social Sciences GE elective	3
	Total Credits	**15**
	Total AS Credits	**65**

Business Administration

Associate of Arts
Associate of Science
Alliance • Scottsbluff • Sidney

The Business Administration program offers courses in the areas of accounting, marketing, business law, management, and management information systems, along with specific general education courses to provide students with the first two years of a baccalaureate degree in business. The suggested curriculum meets the requirements for admission as a junior to degree programs in business administration and accounting at many colleges and universities. Students are also provided the opportunity to combine business administration with an area of emphasis in management information systems.

Degree options are available in:

- Accounting
- Business administration
- Management Information Systems (MIS).

Program Outcomes

- Apply analytical and critical thinking skills to solve problems applicable to business. Promote and help students develop lifelong learning skills needed for professional and personal growth.
- Apply knowledge of business principles, concepts, and theories acquired throughout the business program.
- Communicate business principles and decisions effectively using written and oral communication.
- Demonstrate the ability to use technology and computer software applications in business including library and online resources.
- Explore ethical issues and their impact on business and society.
- Demonstrate the knowledge and skills necessary to complete WNCC's general education requirements for the Associate Degree.
- Demonstrate success at transfer institutions.

Notes

- The AA program options are also available online. (Some optional courses within the programs may not be available online.)
- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.
- Students who plan to transfer to Chadron State College should follow the Associate of Arts degree program.
- Students may enroll in an internship after completing 30 or more credits of the Business Administration program with a 3.0 or higher GPA. All internships must be pre-approved.
- In addition to the 18 credits of required business core classes and the courses recommended for each option, students are required to complete the general

education requirements for the AA degree (31-32 credits) or for the AS degree (33-34 credits).

Associate of Arts

Program Requirements

AA General Education Core — 31-32 credits

Class		Credits
Written Communication		6
Oral Communication		3
Humanities		6
Quantitative Reasoning		3-4
Lab Sciences		4
Personal Development		3
Social Science (recommended courses below)		6

Class		Credits
ECON-2110	Principles of Macroeconomics	3
ECON-2120	Principles of Microeconomics	3
POLS-1600	International Relations	3
SOCI-1010	Introduction to Sociology	3

Note: Some general education requirements may be satisfied by courses in field endorsement areas. Please consult with an advisor for details.

Core Business Requirements — 18 credits

Class		Credits
ACCT-1200	Principles of Accounting I	3
ACCT-1210	Principles of Accounting II	3
BSAD-2500	Business Law	3
BSAD-2520	Principles of Marketing	3
BSAD-2540	Principles of Management	3
INFO-1100	Microcomputer Applications	3
	or	
INFO-2000	Advanced Microcomputer Apps	

Core Courses for Option Area — 12 credits

Total AA Requirements — 61-62 credits

Accounting Option (AA)

AA.A.5202E (61-62 credits)

In addition to the general education requirements for an AA (31-32 credits) and the business core courses (18 credits), a total of 12 credits should be selected from the following groups:

Nine (9) to 12 credits should be selected from the following:

Class		Credits
ACCT-2200	Cost-Managerial Accounting	3
ACCT-2250	Individual Income Tax	3
ACCT-2310	Accounting: Computer Applications (QuickBooks)	3
ACCT-2500	Accounting Internship	3
ACCT-2800	National Certified Bookkeeper Prep	3
BSAD-2100	Managerial Finance	3

0 to three (3) credits can be selected from the following:

Class		Credits
ECON-2110	Principles of Macroeconomics	3
ECON-2120	Principles of Microeconomics	3
INFO-1030	Spreadsheets	3

Business Administration Option (AA)

AA.B.5202E (61-62 credits)

In addition to the general education requirements for an AA (31-21 credits) and the business core courses (18 credits), a total of 12 credits should be selected from ACCT, BSAD, ECON, or INFO courses.

Management Information Systems (MIS) Option (AA)

AA.C.5202E (61-62 credits)

In addition to the general education requirements for an AA (31-32 credits) and the business core courses (18 credits), a total of 12 credits should be selected from INFO courses.

Recommended Plan of Study (for all AA options)

1st Semester		Credits
ACCT-1200	Principles of Accounting I	3
ENGL-1010	English Composition I	3
INFO-1100	Microcomputer Applications	3
	or	
INFO-2000	Advanced Microcomputer Apps	
MATH-1150	College Algebra	4
PRDV-1010	Achieving College Success	3
	Total Credits	**16**

2nd Semester		Credits
ACCT-1210	Principles of Accounting II	3
ENGL-1020	English Composition II	3

	Business Option course	3
	Lab Science GE elective	4
	Oral Communication GE elective	3
	Total Credits	**16**

3rd Semester		**Credits**
BSAD-2520	Principles of Marketing	3
BSAD-2540	Principles of Management	3
	Business Option course	3
	Humanities GE elective	3
	Social Sciences GE elective	3
	Total Credits	**15**

4th Semester		**Credits**
BSAD-2500	Business Law I	3
	Business Option courses	6
	Humanities GE elective	3
	Social Sciences GE elective	3
	Total Credits	**15**
	Total AA Credits	**62**

Associate of Science

Requirements

AS General Education Core — 33-34 credits

Class	**Credits**
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Business Requirements — 18 credits

Class		**Credits**
ACCT-1200	Principles of Accounting I	3
ACCT-1210	Principles of Accounting II	3
BSAD-2500	Business Law I	3
BSAD-2520	Principles of Marketing	3
BSAD-2540	Principles of Management	3
INFO-1100	Microcomputer Applications	3
	or	
INFO-2000	Advanced Microcomputer Apps	

Core Courses for Option Area — 9 credits

Total AS Requirements — 60-61 credits

Accounting Option (AS)

AS.A.5202F (61 credits)

In addition to the general education requirements for an AS (33-34 credits) and the business core courses (18 credits), a total of nine (9) credits should be selected from ACCT courses.

Business Administration Option (AS)

AS.B.5202F (61 credits)

In addition to the general education requirements for an AS (33-34 credits) and the business core courses (18 credits), a total of nine (9) credits should be selected from ACCT, BSAD, ECON, or INFO courses.

Management Information Systems (MIS) Option (AS)

AS.C.5202F (60-61 credits)

In addition to the general education requirements for an AS (33-34 credits) and the business core courses (18 credits), a total of nine (9) credits should be selected from INFO courses.

Recommended Plan of Study (for all AS options)

1st Semester		**Credits**
ACCT-1200	Principles of Accounting I	3
ENGL-1010	English Composition I	3
INFO-1100	Microcomputer Applications	3
	or	
INFO-2000	Advanced Microcomputer Apps	
MATH-1150	College Algebra	3-4
	or	
MATH-1210	Trigonometry	
PRDV-1010	Achieving College Success	3
	Total Credits	**15-16**

2nd Semester		**Credits**
ACCT-1210	Principles of Accounting II	3
BSAD-2520	Principles of Marketing	3
ENGL-1020	English Composition II	3

MATH-1210	Trigonometry	3-5
	or	
MATH-1600	Calculus I	
	Business Option course	3
	Total Credits	**15-17**
3rd Semester		**Credits**
BSAD-2540	Principles of Management	3
	Business Option course	3
	Math or Lab Science GE elective	3-4
	Oral Communications GE elective	3
	Social Sciences GE elective	3
	Total Credits	**15-16**
4th Semester		**Credits**
BSAD-2500	Business Law I	3
	Business Option courses	6
	Humanities GE elective	3
	Lab Science GE elective	4
	Total Credits	**16**
	Total AS Credits	**61- 65**

Business Technology

Associate of Applied Science
Diploma
Certificate
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The Business Technology program prepares the student for mid-level business technology positions. The curriculum is intended for students desiring to enter the workforce immediately after graduation. There are three (3) areas of concentration in the Business Technology AAS program for students to choose from:

- General Business
- Medical Office Management
- Information Technology Technical Support

Program Outcomes

- Students will be able to apply analytical and critical thinking skills to solve problems applicable to business. Promote and help students develop lifelong learning skills needed for professional and personal growth.
- Students will be able to apply knowledge of business principles, concepts, and theories acquired throughout the business program.
- Students will be able to communicate business principles and decisions effectively using written and oral communication.
- Students will be able to demonstrate the ability to use technology and computer software applications in business including library and online resources.
- Students will be able to explore ethical issues and their impact on business and society.
- Demonstrate the knowledge and skills necessary to complete WNCC's general education requirements for the Associate Degree.
- Students will be able to demonstrate success at transfer institutions.

Notes

- All of these programs are also available online. (some optional courses may not be available online).
- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.
- MATH-1010 Intermediate Algebra or higher may be taken instead of BSTC-1500.
- Any lab science or INFO-1210 may be taken instead of INFO-1220.
- Students following one of the certificate options must demonstrate competence in writing and mathematics by assessment (ACCUPLACER®) or by passing the appropriate mathematics and writing courses. This is in addition to the required curricula for the certificate options.
- Students may enroll in an internship after completing 30 or more credits of the Business Technology program with a 3.0 or higher GPA. All internships must be pre-approved.
- All internships require 60 contact credits per credit hour. For example: a minimum of 180 contact credits per semester is required to receive three credits for an internship).

Associate of Applied Science

Program Requirements

AAS General Education Core 15-17 credits

Class	Credits
Written Communication*	3
Oral Communication	3
Quantitative Reasoning*	3-4
Social or Lab Science	3-4
Personal Development	3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math*

proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.

Core Business Tech Requirement 6 credits

Class		Credits
INFO-1100	Microcomputer Applications	3
	or	
INFO-2000	Advanced Microcomputer Apps	
BSTC-2420	Career Development Capstone	3
	or	

Substitute 3 credits of internship from the following:

ACCT-2500	Accounting Internship	3
BSTC-2500	Office Internship I	3
INFO-2500	Information Technology Internship	3
MNGT-2500	Management Internship	3

Core Courses for Option Area 36-41 credits

Total AAS Requirements 60-67 credits

Business Technology – General Business Option (AAS)

AAS.5201 (60-62 credits)

Students must complete the 15-17 credits of general education requirements for the AAS and the six (6) credits of Business Technology core requirements, plus an additional 39 credits for a total of 60-62 credits.

Gen. Bus. Option Requirements 39 credits

Class		Credits
ACCT-1200	Principles of Accounting I	3
BSAD-1050	Introduction to Business	3
BSAD-2450	Business Ethics	3
BSAD-2500	Business Law I	3
BSAD-2540	Principles of Management	3
ENTR-1050	Intro to Entrepreneurship	3
MRKT-2340	Principles of Marketing	3

Plus 18 credits from the following:

Students may choose any ACCT, BSAD, BSTC, ECON, ENTR, INFO, MNGT, or MRKT courses. Students should work closely with their faculty advisor to choose electives based on their desired career path.

Business Technology – Information Technology Technical Support Option (AAS)

AAS.1199B (61-62 credits)

Students must complete the 15-17 hours of general education requirements for the AAS and the six (6) hours of Business Technology core requirements plus an additional 40 credit credits for a total for 61-63 credits for the information technology technical support option.

IT Technical Support Requirements 40 credits

Class		Credits
INFO-1040	Database (Access)	3
INFO-1097	Electronic Communications (Outlook)	1
INFO-1220	Intro to Information Technology	3
INFO-1241	IT Technical Support	3
INFO-1242	IT Hardware Support	3
INFO-1360	Visual C#	3
	or	
INFO-1510	Introduction to Robotics	
INFO-1400	Networking Essentials	3
INFO-2000	Advanced Microcomputer Apps	3
INFO-2040	SQL Database Design and Management	3
INFO-2275	Project Management	3
INFO-2426	Linux	3
INFO-2450	Windows Server	3
INFO-2600	Cybersecurity Essentials	3

Plus three (3) credits from the following:

Class		Credits
INFO-1030	Spreadsheets (Excel)	3
INFO-1210	Introduction to Computer Science	3
INFO-1220	Introduction to Information Technology	3
INFO-1360	Visual C#	3
INFO-1510	Intro to Robotics	3
	Information Technology elective	3

Business Technology – Medical Office Management Option (AAS)

AAS.5204M (64-66 credits)

Students must complete the 15-17 hours of general education requirements for the AAS and the six (6) Business Technology core requirements plus an additional 43 credits for a total for 64-66 credits for the medical office management option.

AAS General Education Core 15-17 credits

Business Technology Core 6 credits

Medical Office Management Requirements 43 credits

Class		Credits
ACCT-1200	Principles of Accounting I	3

ACCT-2310	Accounting: Computer Applications (QuickBooks)	3
BSAD-1050	Introduction to Business	3
BSTC-2330	Records Management	3
BSTC-2340	Office Management	3
	or	
BSAD-2220	Supervisory Management	
HLTH-1060	Medical Terminology	3
HIMS-1250	Introduction to Health Information Management	3
HIMS-1410	Disease Process	4
HIMS-1500	Legal and Ethical of HIM	3
HIMS-2180	Reimbursement Methodologies	4
HIMS-2100	Coding ICD	4
HIMS-2150	Coding CPT	4
INFO-1030	Spreadsheets (Excel)	3

Total AAS Requirements 60-61 credits

Recommended Plan of Study

1st semester		**Credits**
BSTC-2340	Office Management	3
	or	
BSAD-2220	Supervisory Management	
HIMS-1250	Intro to Health Information Management	3
HLTH-1060	Medical Terminology	3
LPNR-1110	Body Structure and Function	4
PRDV-1010	Achieving College Success	3
	Total Credits	**16**
2nd semester		**Credits**
ACCT-1200	Principles of Accounting I	3
BSTC-1500	Business Mathematics	3
BSTC-2330	Records Management	3
HIMS-1500	Legal & Ethical Aspects – HIMS	3
INFO-1100	Microcomputer Apps	3
	or	
INFO-2000	Advanced Microcomputer Apps	
	Total Credits	**15**
3rd semester		**Credits**
BSAD-1210	Business Communications	3
HIMS-1410	Disease Process	4
HIMS-2150	Coding CPT (with lab)	4
INFO-1030	Spreadsheets	3
	Total Credits	**14**
4th semester		**Credits**
BSAD-1050	Introduction to Business	3
BSTC-2420	Career Development Capstone	3
	or	
BSTC-2500	Office Internship I	
HIMS-2100	Coding ICD (with lab)	4
SPCH-1200	Human Communication	3
	Total Credits	**13**
5th semester		**Credits**
ACCT-2310	Accounting: Computer Applications (Quickbooks)	3
HIMS-2180	Reimbursement Methodologies (with lab)	4
	Total Credits	**7**
	Total AAS Med. Office Man.	**65**

Business Technology – Staff Accountant Option (AAS)

AAS.5201 (60-61 credits)

Students must complete the 15-17 hours of general education requirements for the AAS and the six (6) Business Technology core requirements plus an additional 38 credit credits for a total for 60-61 credits for the staff accountant option.

AAS General Education Core 15-17 credits

Business Technology Core 6 credits

Staff Accountant Requirements 38 credits

Class		**Credits**
ACCT-1200	Principles of Accounting I	3
ACCT-1210	Principles of Accounting II	3
ACCT-2200	Cost/Managerial Accounting	3
ACCT-2310	Accountings Apps (Quickbooks)	3
ACCT-2250	Individual Income Tax	3
ACCT-2500	Accounting Internship	3
	or	
	Any BSAD, BSTC, INFO, or ENTR Elective	
ACCT-2800	Nat'l Certified Bookkeeper Prep	3
BSAD-2100	Managerial Finance	3
BSTC-2330	Records Management	3
INFO-1030	Spreadsheets (Excel)	3
INFO-1094	Intro to Database (Access)	1
INFO-1097	Electronic Communications (Outlook)	1
INFO-2275	Project Management	3
	Any BSAD, BSTC, INFO, or ENTR Elective	3

Total AAS Requirements 60-61 credits

Diploma

Students must complete nine to 10 credits of general education courses, six (6) credits of required business core courses, and enough elective courses to meet the required credits in order to earn a diploma in the option areas of:

- Executive Assistant
- Information Technology Technical Support
- Staff Accountant

Program Requirements

Diploma General Education Core 9-10 credits

Business Technology Core 6 credits

Class		Credits
INFO-1100	Microcomputer Applications	3
	or	
INFO-2000	Advanced Microcomputer Apps	
BSTC-2420	Career Development Capstone	3
	or	
	Any business related internship	

Area of Emphasis Option 18-23 credits

Total Diploma Requirements 31-44 credits

Business Technology – Executive Assistant Option (Diploma)

D2.5201B (38 credits)

In order to earn a Business Technology – Executive Assistant diploma, students must complete the nine (9) credits of general education requirements, the six (6) credits of business technology core requirements, and 23 credits of credit of general business courses for a total of 38 credits. The 32 of the required 38 credits can be earned by completing both the Executive Assistant I and Executive Assistant II certificate programs.

Diploma General Education Core 9 credits

Class		Credits
BSAD-1210	Business Communications	3
BSTC-1500	Business Mathematics	3
PRDV-1010	Achieving College Success	3

**Written Communication and Qualitative Reasoning selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Business Technology Core 6 credits

General Business Requirements 23 credits

Class		Credits
BSAD-1050	Introduction to Business	3
BSAD-2540	Principles of Management	3
BSTC-2330	Records Management	3
BSTC-2340	Office Management	3
INFO-1030	Spreadsheets (Excel)	3
INFO-1094	Introduction to Database	1
INFO-1097	Electronic Communications (Outlook)	1
INFO-2000	Advanced Microcomputer Apps	3
INFO-2275	Project Management	3

Total Exec. Asst. Diploma Requirements 38 credits

Business Technology – Information Technology Technical Support Option (Diploma)

D2.1199A (34 credits)

In addition to the general education requirements (10 credits) and core business requirements (6 credits), students must complete 18 credits of information technology core courses for a total of 34 credits to earn a diploma in information technology technical support.

Diploma General Education Core 10 credits

Class		Credits
MATH-0160	Introductory Algebra (or higher)	4
ENGL-1010	English Composition 1	3
PRDV-1010	Achieving College Success	3

**Written Communication and Qualitative Reasoning selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Business Technology Core 6 credits

Information Technology Core 18 credits

Class		Credit
INFO-1241	IT Technical Support	3
INFO-1242	IT Hardware Support	3
INFO-1400	Networking Essentials	3
Plus nine (9) credits from any INFO courses		**9**

Total IT Tech Diploma 34 credits

Business Technology – Staff Accountant Option (Diploma)

D2.5201A (44 credits)

In order to earn a Business Technology – Staff Accountant diploma, students must complete nine (9) credits of general education requirements, the six (6) credits of business technology core requirements, and 29 credits of credit of general business courses for a total of 44 credits. The 32 of the general business credits also can be earned by completing both the Staff Accountant I and Staff Accountant II certificate programs.

Diploma General Education Core — 9 credits

Class		Credits
BSAD-1210	Business Communications	3
BSTC-1500	Business Mathematics	3
PRDV-1010	Achieving College Success	3

**Written Communication and Qualitative Reasoning selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Business Technology Core — 6 credits

General Business Requirements — 29 credits

Course		Credits
ACCT-1200	Principles of Accounting I	3
ACCT-1210	Principles of Accounting II	3
ACCT-2200	Cost/Managerial Accounting	3
ACCT-2310	Accountings Apps (Quickbooks)	3
ACCT-2250	Individual Income Tax	3
ACCT-2800	Nat'l Certified Bookkeeper Prep	3
BSAD-2100	Managerial Finance	3
BSTC-2330	Records Management	3
INFO-1030	Spreadsheets (Excel)	3
INFO-1094	Intro to Database (Access)	1
INFO-1097	Electronic Communications (Outlook)	1

Total Staff Accountant Requirements — 44 credits

Certificate

Business Technology – Executive Assistant Option (Certificate)

C2.5201C (30-31 credits) Executive Assistant I
CS.5201D (30-31 credits) Executive Assistant II

WNCC offers two executive assistant certificate options. Each option provides a standalone certificate, but when combined with an additional six credits of general education requirements, students will have fulfilled the requirements for an executive assistant diploma.

Business Technology - Executive Assistant (Certificate)

Course		Credits
BSAD-1050	Introduction to Business	3
BSTC-2340	Office Management	3
INFO-1030	Spreadsheets (Excel)	3
INFO-1097	Electronic Communications (Outlook)	1
INFO-1100	Microcomputer Applications	3
PRDV-1010	Achieving College Success	3
	Total Certificate Credits	**16**

Business Technology - Executive Assistant II (Certificate)

Course		Credits
BSAD-2540	Principles of Management	3
BSTC-2330	Records Management	3
BSTC-2420	Career Development Capstone or Any business-related internship	3
INFO-1094	Introduction to Database	1
INFO-2000	Advanced Microcomputer Apps	3
INFO-2275	Project Management	3
	Total Certificate Credits	**16**

Business Technology – Staff Accountant Option (Certificate)

C2.5201A (30-31 credits) Staff Accountant I
CS.5201B (30-31 credits) Staff Accountant II

WNCC offers two staff accountant certificate options. Each option provides a standalone certificate, but when combined with an additional three (3) credits of business core requirements and six (6) credits of general education requirements, students will have fulfilled the requirements for an staff accountant diploma. These credits can also fulfill 32 credits required for the staff accountant AAS degree.

Business Technology – Staff Accountant I (Certificate)

Course		Credits
ACCT-1200	Principles of Accounting I	3
ACCT-2310	Accountings Apps (Quickbooks)	3
ACCT-2250	Individual Income Tax	3
INFO-1030	Spreadsheets (Excel)	3
INFO-1097	Electronic Communications (Outlook)	1
INFO-1100	Microcomputer Apps	3
	or	
INFO-200	Advanced Microcomputer Apps	
	Total Certificate Credits	**16**

Business Technology – Staff Accountant II (Certificate)

Course		Credits
ACCT-1210	Principles of Accounting II	3
ACCT-2200	Cost/Managerial Accounting	3
ACCT-2800	Nat'l Certified Bookkeeper Prep	3
BSAD-2100	Managerial Finance	3
BSTC-2330	Records Management	3
INFO-1094	Intro to Database (Access	1
	Total Certificate Credits	**16**

Chemistry

AS.4005 (62 credits)
Associate of Science
Scottsbluff

The chemistry emphasis area presents chemical concepts, problem-solving methods, and laboratory experiences intended to upgrade persons working in scientific fields, to provide training for technical scientific employment, and to give pre-professional science students a suitable chemistry background for college transfers.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a scientist. Required competencies may include the accumulation of knowledge in earth and space science, general biology, general chemistry, introductory physics, and organic chemistry. Stimulate interest in chemistry and fields related to chemistry.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of their chosen field.
- Use knowledge of basic scientific principles to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, technological advances, and demonstrate knowledge of contemporary social and ethical issues relate to scientists and the professional responsibilities of a scientist.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from biology, mathematics, and other disciplines to physical science concepts.
- Will demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Students will be able to function successfully within laboratory settings, including use of basic equipment (measurement devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; utilization of computer resources including computer presentation.
- Apply skills and abilities identified as WNCCs five major general education goals.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the Associate of Science Degree

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.
- In addition to the general education requirements for the AS degree, 41 credits of core courses and one (1) hour of elective credit are required for the degree in chemistry.
- Depending on the student's choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.

- Students not prepared for MATH-1600 should start at the appropriate step in the mathematics sequence.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's degree.

Program Requirements

AS General Education Core 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements 41 credits

Class		Credits
MATH-1600	Analytic Geometry and Calculus	5
MATH-2150	Calculus II	5
MATH-2200	Calculus III	5
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4
PHYS-1300	Physics I (with lab and recitation)	5
PHYS-1350	Physics II (with lab and recitation)	5

Total AS Requirements 62 credits

Recommended Plan of Study

1st Semester		Credits
CHEM-1090	General Chemistry I (with lab)	4
ENGL-1010	English Composition I	3
MATH-1600	Analytic Geometry and Calculus I	5
PRDV-1010	Achieving College Success	3
	Total Credits	**15**

2nd Semester		Credits
CHEM-1100	General Chemistry II (with lab)	4
ENGL-1020	English Composition II	3
	Humanities GE elective	3
	Oral Communication GE elective	3
	Social Science GE elective	3
	Total Credits	**16**

3rd Semester		Credits
CHEM-2510	Organic Chemistry I (with lab)	4
MATH-2150	Calculus II	5
PHYS-1300	Physics I (with lab and recitation)	5
	Elective	3
	Total Credits	**17**

4th Semester		Credits
CHEM-2520	Organic Chemistry II (with lab)	4
MATH-2200	Calculus III	5
PHYS-1350	Physics II (with lab and recitation)	5
	Total Credits	**14**
	Total AS Credits	**62**

(Pre) Chiropractic Medicine

AS.5101 (62 credits)
Associate of Science
Scottsbluff

The pre-chiropractic medicine emphasis area is modeled after several such programs across North America. The recommended plan of study represents 60 of the minimum 90 prerequisite credits necessary to be eligible for application to an accredited chiropractic school. Of the 61 credits earned toward the Associate of Science degree, 48 of them include required coursework as established by the Council on Chiropractic Education (CCE) and are accepted by the member institutions of the Association of Chiropractic Colleges (AAC).

This program includes all of the required coursework in the sciences. The program naturally contains considerable flexibility with regard to the recommended coursework. It is important for a student to consult with his or her advisor as well as transfer institutions early to formulate a plan for the completion of all 90 credits required for application to chiropractic school. Complete information concerning prerequisites and application to chiropractic schools can be found at the respective websites of the CCE and AAC.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a medical professional. Required competencies may include the

accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.

- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic principles of medical science to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to science and the professional responsibilities of a medical professional.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to scientific concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.
- Placement test scores dictate English and math course entry levels. It is important to note that MATH-1010 (Intermediate Algebra) is the prerequisite CHEM-1090.
- Students should check with their advisor to determine which humanities and social science offerings qualify for admission into a certified chiropractic program.
- Social science and humanities credits will constitute 18 credits of the 90 credits required for admission into a certified chiropractic program.
- Students should check the Association of Chiropractic Colleges' website to get a complete listing of all chiropractic colleges in North America as well as check detailed listings of requirements for admission to Doctor of Chiropractic programs. The potential for adjustment to the recommended program would exist within the first two years although the ultimate requirements for admission to a chiropractic program would not. For example, Organic Chemistry could be delayed until the third year of coursework but relevant substitutions (i.e. science classes) would need to be made in the second year at WNCC to complete hour requirements. Be aware of the fact that at some point Organic Chemistry would still need to be taken by virtue of the fact it is a requirement for admission to a certified chiropractic program.
- Please also note that many of the chiropractic schools are now requiring a Bachelor's of Science degree for admission.
- In addition to the general education requirements for the AS degree, 33 credits of core courses and nine (9) credits of electives are required for the degree in pre-chiropractic medicine.
- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to a bachelor's or professional degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core requirements. Please consult with an advisor for details.

Core Program Requirements 33 credits

Class		Credits
BIOS-2250	Human Anatomy & Physiology I (and lab)	4
BIOS-2260	Human Anatomy & Physiology II (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4
MATH-1210	Trigonometry	3
PHYS-1300	Physics I (and lab & recitation)	5
PHYS-1350	Physics II (and lab & recitation)	5

Recommended Electives or Courses for Transfer (selected from below): 9 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1380	General Zoology (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4

Total AS requirements 62 credits

Recommended Plan of Study

1st Semester		Credits
BIOS-2250	Human Physiology & Anatomy I (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
PRDV-1010	Achieving College Success	3
	Total Credits	**18**

2nd Semester		Credits
BIOS-2260	Human Physiology & Anatomy II (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
ENGL-1020	English Composition II	3
MATH-1210	Trigonometry	3
	Total Credits	**14**

3rd Semester		Credits
CHEM-2510	Organic Chemistry I (and lab)	4
PHYS-1300	Physics I (and lab & recitation)	5
PSYC-1810	Introduction to Psychology	3
	Oral Communication GE elective	3
	Total Credits	**15**

4th Semester		Credits
CHEM-2520	Organic Chemistry II (and lab)	4
PHYS-1350	Physics II (and lab & recitation)	5
	Social science and humanities GE electives	6
	Total Credits	**15**
	Total AS Credits	**62**

Collision Repair & Refinish Technology

Associate of Applied Science (AAS)
Certificate
Scottsbluff

The Collision Repair and Refinish Technology program is designed to offer the necessary laboratory and technical information to train students in all areas of the auto body field.

Program Outcomes:

- Develop safe, clean work habits, attitudes, and skills.
- Perform repairs and other auto body functions under conditions similar to those in an auto body shop.
- Instill the importance of work ethic and meeting goals and deadlines.
- Demonstrate skills and abilities related to metalwork, painting, front-end alignment, framework, and other related activities.
- Develop and apply knowledge of proper shop techniques and equipment usage.

Associate of Applied Science

AAS.4706A (64-66 credits)

For the Associate of Applied Science degree in Collision Repair and Refinish Technology, students will complete 64-66 credits, which includes a minimum of 15 general education requirements.

Notes

- Students may enroll in an internship after maintaining a 2.5 GPA in 12 or more credits of coursework in Collision Repair and Refinish Technology.

Program Requirements

AAS General Education Core 15-17 credits

Class		Credits
Written Communication*		3
BSAD-1210 (Business Communication) or ENGL-1000 (Workplace Writing) recommended		
Oral Communication		3
SPCH-1110 (Public Speaking) or SPCH-1200 (Human Communication) recommended		
Quantitative Reasoning*		3-4
BSTC-1500 (Business Math) or MATH-1020 (Technical Mathematics) recommended		
Social or Lab Science		3-4
INFO-1201(Intro to Computer Science) recommended		
Personal Development		3
PRDV-1010 (Achieving College Success) or BSTC-2420 (Career Development) recommended		

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Collision Repair/Refinish Technology Courses (see below) 49 credits

Total AAS Requirements 64-66 credits

Recommended Plan of Study

1st Semester		Credits
AUTB-1000	Collision Repair Tools & Safety	1
AUTB-1010	Basic Metal Repair I	3
AUTB-1100	Non-Structural Panel Alignment	3
AUTB-2010	Advanced Metal Repair	3
AUTB-2300	Welded Panel Replacement & Corrosion Protection	3
WELD-1070	Basic Welding – Auto Body	3
	Total Credits	**16**

2nd Semester		Credits
AUTB-1005	Refinish Equipment & Environmental Practices	1
AUTB-1200	Plastics & Adhesives	3
AUTB-1320	Refinish Preparation	3
AUTB-1330	Refinish Materials & Applications	3
AUTB-2330	Color Theory & Finish Matching	3
AUTB-2340	Advanced Paint Application	3
	Quantitative Reasoning GE elective	3-4
	Total Credits	**18-19**

3rd Semester		Credits
AUTB-1220	Electrical & Mechanical Components	3
AUTB-2050	Collision Forces Theory & Damage Identification	3
AUTB-2350	Structural Analysis & Straightening Equipment	3
	Social/Lab Science GE electives	3-4
	Written Communication GE elective	3
	Total Credits	**15-16**

4th Semester		Credits
AUTB-1240	Special Finishes	3
AUTB-2420	Structural Repair Process	3
AUTB-2450	Structural Component Replacement	3
	Oral Communication GE electives	3
	Personal Development GE elective	3
	Total Credits	**15**
	Total AAS Credits	**64-66**

Certificates

C2.NS.4706A (16 credits) – Non-Structural Collision Repair

C2.PR.4706A (16 credits) – Automotive Paint and Refinish

C2.SC.4706A (16 credits) – Structural Collision Repair

The Collision Repair and Refinishing Technology program at WNCC offers three certificates. Each of the certificates is designed as a standalone program, or the credits can be applied to the AAS degree in Collision Repair and Refinish Technology.

Recommended Plans of Study

Non-Structural Collision Repair

Semester		Credits
AUTB-1000	Collision Repair Tools & Safety	1
AUTB-1010	Basic Metal Repair I	3
AUTB-1100	Non-Structural Panel Alignment	3
AUTB-2010	Advanced Metal Repair	3
AUTB-2300	Welded Panel Replacement & Corrosion Protection	3
WELD-1070	Basic Welding – Auto Body	3
	Total Certificate Credits	**16**

Automotive Paint and Refinish

Semester		Credits
AUTB-1005	Refinish Equipment & Environmental Practices	1
AUTB-1200	Plastics & Adhesives	3
AUTB-1320	Refinish Preparation	3
AUTB-1330	Refinish Materials & Applications	3
AUTB-2330	Color Theory & Finish Matching	3
AUTB-2340	Advanced Paint Application	3
	Total Certificate Credits	**16**

Structural Collision Repair

1st Semester		Credits
AUTB-1220	Electrical & Mechanical Components	3
AUTB-2050	Collision Forces Theory & Damage Identification	3
AUTB-2350	Structural Analysis & Straightening Equipment	3
	Total Credits	**9**

2nd Semester		Credits
AUTB-1240	Special Finishes	3
AUTB-2420	Structural Repair Process	3
AUTB-2450	Structural Component Replacement	3
	Total Credits	**9**
	Total Certificate Credits	**18**

Computer Science

AS.1199A (64 credits)
Associate of Science
Alliance • Scottsbluff • Sidney

This program provides students with the background necessary for further study in computer science, typically leading to a baccalaureate degree in computer science, computer engineering, computer information systems, or a related field. This program acquaints students with the principles and practices of algorithmic design, programming, programming languages, and operating systems. These principles prepare students with practical and theoretical knowledge to apply to the remainder of a baccalaureate degree program.

Program Outcomes

- Demonstrate the ability to install, configure, and troubleshoot operating systems and hardware.
- Demonstrate the ability to design, create, and manage a database.
- Demonstrate the ability to design, write, and debug software programs.
- Demonstrate the ability to install, configure, and troubleshoot a network.
- Apply skills and abilities identified as WNCCs five major general education goals.
- Demonstrate basic proficiency in office productivity applications.

Notes

- This program is also available online.
- Students who plan to transfer to a four-year college or university should consult their faculty advisor early in their WNCC career to determine a curriculum that best suits their transfer goals.
- Students who choose not to follow the recommended plan of study listed below, may not be able to complete the program in the number of semesters shown.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core requirements. Please consult with an advisor for details.

Core Program Courses — 30 credits

Class		Credit
INFO-1040	Database (Access)	3
INFO-1100	Microcomputer Applications	3
	or	
INFO-2000	Advanced Microcomputer Apps	
INFO-1210	Introduction to Computer Science	3
INFO-1241	IT Technical Support	3
INFO-1355	Computer Science I	3
INFO-1360	Visual C#	3
INFO-1400	Networking Essentials	3
INFO-1510	Introduction to Robotics	3

INFO-2040	SQL Database Design and Management	3
INFO-2426	Linux	3
Total AS requirements		**63-64 credits**

Recommended Plan of Study

1st Semester (fall)		**Credits**
INFO-1100	Microcomputer Applications	3
	or	
INFO-2000	Advanced Microcomputer Apps	
INFO-1241	IT Technical Support	3
INFO-1510	Introduction to Robotics	3
MATH-1150	College Algebra (or higher)	4
PRDV-1010	Achieving College Success	3
	Total Credits	**16**

2nd Semester (spring)		**Credits**
ENGL-1010	English Composition I	3
INFO-1360	Visual C#	3
INFO-1400	Networking Essentials	3
MATH-1210	Trigonometry (or higher)	3
	Oral Communication GE elective	3
	Total Credits	**15**

3rd Semester (fall)		**Credits**
ENGL-1020	English Composition II	3
INFO-1040	Database (Access)	3
INFO-1210	Introduction to Computer Science	3
MATH-1600	Calculus I	5
	Humanities GE elective	3
	Total Credits	**17**

4th Semester (spring)		**Credits**
INFO-1355	Computer Science I	3
INFO-2040	SQL Database Design and Management	3
INFO-2426	Linux	3
	Lab Science GE elective	4
	Social Science GE elective	3
	Total Credits	**16**
	Total AS Credits	**64**

Criminal Justice

Associate of Arts
Associate of Applied Science
Alliance • Scottsbluff • Sidney

The Criminal Justice emphasis area provides the student with a broad academic and multi-disciplinary background that prepares him or her for professional careers in law enforcement, corrections, private security, court, parole, and probation. The Criminal Justice emphasis area also provides the student with an interdisciplinary curriculum that prepares him or her for advance studies.

Program Outcomes:

- Correctly define, identify, and explain criminal justice terminology.
- Analyze interaction between the three components of the criminal justice system.
- Develop an increased awareness of victims' rights and issues.
- Be prepared to contribute to the field of Criminal Justice.
- Demonstrate effective communication skills with other criminal justice professionals.
- Demonstrate fundamental knowledge and comprehension of criminological theory.
- Be prepared to transfer to a four-year Criminal Justice program.

Notes:

- The field of criminal justice is experiencing growth that requires well-trained employees in law enforcement and corrections.
- Internships with various organizations are available for advanced students in criminal justice.
- Individuals considering a degree or employment in the criminal justice profession must be aware of strict qualifications.
- With an advisor's permission, students may substitute a criminal justice course(s) for social science course(s) beyond the courses required for the AA or AAS degree.
- Students who are already certified law enforcement at the time of their enrollment at WNCC may be awarded the following credits upon certification verification and active enrollment:

Class		**Credit**
CRIM-1010	Introduction to Criminal Justice	3
CRIM-2000	Criminal Law	3

CRIM-2030	Police & Society	3
CRIM-2260	Criminal Investigation	3

Associate of Arts

AA.4301 (60-61credits)

A sample course of study is provided below. All students, but particularly those planning to transfer to a four-year college or university, should consult their faculty advisor, and transfer advisor as appropriate, early in their WNCC career to determine a curriculum best suited to their educational goals.

Program Requirements

AA General Education Core 31-32 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	6
Math	3-4
Lab Sciences	4
Personal Development	3
Social Science	6

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements 29-30 credits

Total AA Requirements 60-61 credits

Recommended Plan of Study

1st Semester		Credits
CRIM-1010	Introduction to Criminal Justice	3
CRIM-1020	Introduction to Corrections	3
ENGL-1010	English Composition I	3
MATH-1150	College Algebra (or higher)	3-4
	or	
MATH-2170	Applied Statistics	
PRDV-1010	Achieving College Success	3
	Total Credits	**15-16**

2nd Semester		Credits
CRIM-2000	Criminal Law	3
ENGL-1020	English Composition II	3
POLS-1000	American Government	3
PSYC-1810	Introduction to Psychology	3
	Oral Communications GE elective	3
	Total Credits	**15**

3rd Semester		Credits
CRIM-2030	Police and Society	3
CRIM-2260	Criminal Investigations	3
SOCI-2150	Issues of Unity & Diversity	3
	Social sciences GE electives	6
	or	
	Humanities GE electives	
	Total Credits	**15**

4th Semester		Credits
CRIM-2150	Contemporary Issues in Criminal Justice	3
CRIM-2180	Criminal Justice Organization & Management	3
	Humanities elective	3
	Lab Science GE elective	4
	Elective	2
	Total Credits	**15**
	Total AS Credits	**60-61**

Associate of Applied Science

AAS.4301A (60 credits)

A sample course of study is provided. Students should work closely with their faculty advisor to develop a personal plan of study best suited to their educational goals.

Program Requirements

AAS General Education Core 15-17 credits

Class	Credits
Written Communication*	3
Oral Communication	3
Quantitative Reasoning*	3-4
Social or Lab Science	3-4
Personal Development	3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements 49 credits

Total AAS Requirements 60 credits

Recommended Plan of Study

1st Semester		Credits
CRIM-1010	Introduction to Criminal Justice	3
CRIM-1020	Introduction to Corrections	3
CRIM-1140	Reporting Techniques for Criminal Justice	3
PRDV-1010	Achieving College Success	3
	Oral Communication GE elective	3
	Total Credits	**15**
2nd Semester		**Credits**
CRIM-1030	Courts and Judicial Process	3
CRIM-2000	Criminal Law	3
CRIM-2030	Police & Society	3
ENGL-1010	English Composition I	3
	Social Science GE elective	3
	Total Credits	**15**
3rd Semester		**Credits**
CRIM-2110	Juvenile Justice	3
CRIM-2180	Criminal Justice Organization and Management	3
	Math GE elective	3
	Criminal Justice electives	6
	Total Credits	**15**
4th Semester		**Credits**
CRIM-2200	Criminology	3
CRIM-2260	Criminal Investigations	3
	Criminal Justice electives	9
	Total Credits	**15**
	Total AAS Credits	**60**

(Pre) Dental Hygiene

AS.5106 (66 credits)
Associate of Science
Scottsbluff

The pre-dental hygiene program is designed to provide students with a foundational course of study preparing them for admission to a four-year degree program at an accredited school or college of dental hygiene.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a medical professional. Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic principles of medical science to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to science and the professional responsibilities of a medical professional.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to scientific concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.
- In addition to the general education requirements for the AS degree, 27 credits of core courses and 15 credits of electives are required for the degree in pre-dental hygiene.

- If entering the Dental Hygiene program at the University of Nebraska Medical Center (UNMC) a 12-hour series of coursework must be completed in a specific area of study. The courses taken in the 12-hour series must have the same course prefix.
- Depending on the student's choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements — 27 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-2050	Diet and Nutrition Therapy	3
BIOS-2250	Human Anatomy and Physiology I (and lab)	4
BIOS-2260	Human Anatomy and Physiology II (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4

Recommended Electives or Courses for Transfer — 15 credits

- UNMC requires a "12-hour series" to be completed in a specific area of study. These 12 credits represent a "minor" to be completed along with the prerequisites for the Dental Hygiene program. UNMC does not specify what discipline the 12 credits should be in.
- UNMC requires an additional six (6) credits of social science credit and three (3) credits of humanities credit.

Total AS Requirements — 66 credits

Recommended Plan of Study

1st Semester		Credits
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
PRDV-1010	Achieving College Success	3
	Humanities GE elective	3
	Social Sciences GE elective	3
	Total Credits	**16**

2nd Semester		Credits
BIOS-1010	General Biology (and lab)	4
ENGL-1020	English Composition II	3
	First of 12-Hour Series	3
	Second of 12-Hour Series	3
	Social Sciences elective	3
	Total Credits	**16**

3rd Semester		Credits
BIOS-2050	Nutrition & Diet Therapy	3
BIOS-2250	Human Anatomy & Physiology I (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
	Third of 12-Hour Series	3
	Social Science elective	3
	Total Credits	**17**

4th Semester		Credits
BIOS-2260	Human Anatomy & Physiology II (and lab)	4
CHEM-1100	General Chemistry ii (and lab)	4
	Fourth of 12-Hour Series	3
	Humanities elective	3
	Oral Communication GE elective	3
	Total Credits	**17**
	Total AS Credits	**66**

(Pre) Dentistry

AS.5111 (63 credits)
Associate of Science
Scottsbluff

This emphasis area constitutes the first two years of the pre-professional study required for admission to a college of dentistry.

Students need to be aware that earning the Associate of Science degree is just the first step in pursuit of a professional career in a medical field. Most advanced degrees in these areas require upwards of eight or more years of study.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a medical professional. Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic principles of medical science to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to science and the professional responsibilities of a medical professional.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to scientific concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum to best suit their transfer goals.
- In addition to the general education requirements for the AS degree, 33 credits of core courses and nine (9) credits of electives are required for the degree in pre-dentistry.
- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's or professional degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements — 33 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1380	General Zoology (and lab)	4

CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4
MATH-1210	Trigonometry	3
PHYS-1300	Physics I (and lab & recitation)	5
PHYS-1350	Physics II (and lab & recitation)	5

Recommended Electives or Courses for Transfer (selected from below): 9 credits

Class		Credits
BIOS-1160	Intro to Human Anatomy & Physiology (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4

Total AS Requirements 63 credits

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
PRDV-1010	Achieving College Success	3
	Total Credits	**18**

2nd Semester		Credits
BIOS-1380	General Zoology (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
ENGL-1020	English Composition II	3
MATH-1210	Trigonometry	3
	Total Credits	**14**

3rd Semester		Credits
BIOS-2120	Genetics (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
PHYS-1300	Physics I (and lab & recitation)	5
	Oral Communication GE elective	3
	Total Credits	**16**

4th Semester		Credits
CHEM-2520	Organic Chemistry II (and lab)	4
PHYS-1350	Physics II (and lab & recitation)	5
	Humanities GE elective	3
	Social Sciences GE elective	3
	Total Credits	**15**

Total AS Credits 63

Dietetics

AS.1905 (64 credits)
Associate of Science
Alliance • Scottsbluff • Sidney

The dietetics emphasis area allows students to complete two years of study at WNCC and then continue their studies leading toward a bachelor of science degree in Human Resources and Family Science with a major in Dietetics at the University of Nebraska – Lincoln (UNL). The "Transfer with Ease" brochure is available from a WNCC counselor or advisor.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a medical professional. Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic principles of medical science to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to science and the professional responsibilities of a medical professional.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to scientific concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate

safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.

- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty advisor and transfer advisor early in their WNCC career to determine a curriculum to best suit their transfer goals. Careful consideration should be given to the course requirements of the dietetics program at UNL.
- Students who plan to transfer to UNL are encouraged to apply for admission early in their program. ACE elective classes can be taken through UNL during the students' time at WNCC to lessen the credit load in the fourth semester and additionally guarantee maximum credit transfer.
- UNL requires additional ACE electives. These can be taken through UNL as soon as students apply for and are accepted for admission to UNL. These courses can also be taken while at WNCC. Courses offered at WNCC that satisfy the UNL ACE 9 requirement are:

Class		Credit
HIST-2100	World Civilization (4000 BC – 1500 AD)	3
HIST-2110	World Civilization (1500 AD – Present)	3
POLS-2390	International Relations	3

- UNL prefers SPCH-1110 (Public Speaking) as the oral communication elective.
- HLTH-1060 (Comprehensive Medical Terminology) is a recommended elective.
- In addition to the general education requirements for the AS degree, 34 credits of core courses and eight (8) credits of electives are required for the degree in dietetics.
- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's or professional degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements — 34 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-2050	Diet and Nutrition Therapy	3
BIOS-2250	Human Anatomy and Physiology I (and lab)	4
BIOS-2260	Human Anatomy and Physiology II (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4
MATH-2170	Applied Statistics	3

Recommended electives or courses for transfer (selected from below): — 8 credits

UNL recommends eight (8) social science credits in addition to WNCC's three (3) hour general education requirement. They recommend:

Class		Credits
PSYC-1810	Introduction to Psychology	3
PSYC-2150	Life Span: Human Growth & Development	3

In addition, UNL recommends:

Class		Credits
BSAD-2540	Principles of Management	3

Total AS Requirements 64 credits

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
ENGL-1010	English Composition I	3
PRVD-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Total Credits	**17**

2nd Semester		Credits
CHEM-1100	General Chemistry II (and lab)	4
ENGL-1020	English Composition II	3
MATH-1150	College Algebra	4
	Oral Communication GE elective	3
	Total Credits	**14**

3rd Semester		Credits
BIOS-2050	Diet and Nutrition Therapy	3
BIOS-2250	Human Physiology & Anatomy I (and lab)	4
PSYC-2150	Life Span: Human Growth & Development	3
	Humanities GE elective	3
	Social Sciences GE elective	3
	Total Credits	**16**

4th Semester		Credits
BIOS-2260	Human Anatomy & Physiology II (and lab)	4
BIOS-2460	Microbiology (and lab)	4
BSAD-2540	Principles of Management	3
MATH-2170	Applied Statistics	3
	Social Sciences elective	3
	Total Credits	**17**
	Total AS Credits	**64**

Education (Early Childhood)

Associate of Arts
Associate of Applied Science
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The Early Childhood Education program at WNCC is designed for educational majors interested in working with young children from birth through eight years of age. This coursework enhances careers in the early childhood field through a variety of employment opportunities including preschool programs, public school teachers, and paraprofessional in early education, early childhood special education, Head Start programs, family childcare homes and childcare centers, and other positions working with young children.

Program Outcomes

- Students will promote positive child development and learning.
- Students will demonstrate knowledge of how to build family and community relationships.
- Students will demonstrate knowledge in observing, documenting, and assessing to support children and families.
- Students will demonstrate knowledge in teaching and learning.
- Students will demonstrate knowledge of professionalism in the early childhood field.

Associate of Arts

AA.1312C (60-61 credits)

The courses offered through this emphasis area are part of a transfer agreement with several four-year colleges and universities in Nebraska. The transfer agreement with Chadron State College (CSC) specifically supports the smooth transition of coursework leading to a Nebraska Teaching Certificate through two degree options:

- Bachelor of Science in Elementary Education with a supplemental endorsement in early childhood.
- Bachelor of Science in Elementary Education with an early childhood inclusive endorsement.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum to best suit their transfer goals.

Program Requirements

AA General Education Core 31-32 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	6
Math	3-4
Lab Sciences	4

Personal Development	3
Social Science	6

Note: Some general education requirements may be satisfied by courses in field endorsement areas. Please consult with an advisor for details.

Early Childhood Education Program Requirements **29-30 credits**

Total AA Requirements **60-61 credits**

Recommended Plan of Study

1st Semester		**Credits**
ECED-1150	Introduction to Early Childhood Education	3
ECED-1060	Observation, Assessment, & Guidance	3
ENGL-1010	English Composition I	3
PRDV-1010	Achieving College Success	3
	Math GE Elective	3-4
	Total Credits	**15-16**

2nd Semester		**Credits**
ECED-1110	Infant Toddler Development	3
ECED-1120	Preschool Child Development	2
ENGL-1020	English Composition II	3
PSYC-1810	Introduction to Psychology	3
	ECED Elective (recommend EDEC-1220)	1
	ECED Elective (recommend ECED-1050 or EDEC-1160)	3
	Total Credits	**15**

3rd Semester		**Credits**
ECED-1230	School-Age Child Development	2
ECED-2050	Children with Exceptionalities	3
SOCI-2150	Issues of Unity & Diversity	3
	Humanities GE elective	3
	Oral Communication GE elective	3
	ECED Elective (recommend EDEC-1610-1640)	1
	Total Credits	**15**

4th Semester		**Credits**
ECED-2060	Early Childhood Education Curriculum Planning	3
ENGL-2110	Children's Literature	3
	Lab Science GE elective	4
	ECED Elective (recommend ECED-2070)	3
	ECED Elective (recommend ECED-1050 or EDEC-1160)	2
	Total Credits	**15**
	Total AA Credits	**60-61**

Associate of Applied Science

AAS.1312 (60-62 credits)

This degree provides students with current information related to evidence-based practices and supports them in their continued development as early childhood professionals.

Notes

- Students should consult with their faculty advisor about elective courses that best suits their career and academic goals.

Technical Standards

- Differentiate lesson plans/activities to fit the needs of children of varying ages and stages of development.
- Create an environment to maintain physical and mental health and safety of all children at varying ages and stages of development.
- Create the environment to maximize learning of all children.
- Implement lesson plans/activities that integrate core curriculum.
- Integrate technology into lesson plans/activities to fit the needs of all children.
- Communicate with all families in a manner that addresses family diversity.
- Include all families in a family-school partnership.
- Maintain an encouraging classroom for all children.
- Observe and document each child regularly to accurately assess strengths and weaknesses and record progress.
- Plan the program to meet the needs of all children and families.
- Incorporate professional development activities into a personal growth plan.

Program Requirements

AAS General Education Core **15-17 credits**

Class	**Credits**
Written Communication*	3
Oral Communication	3
Quantitative Reasoning*	3-4
Social or Lab Science	3-4
Personal Development	3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Early Childhood Education Program Requirements **45 credits**

Total AAS Credits **60-62 credits**

Recommended Plan of Study

1st Semester		Credits
ECED-1050	Expressive Arts	3
ECED-1060	Observation, Assessment, & Guidance	3
ECED-1150	Introduction to Early Childhood Education	3
ENGL-1010	English Composition I	3
PRVD-1010	Achieving College Success	3
	Total Credits	**15**

2nd Semester		Credits
ECED-1110	Infant/Toddler Development	3
ECED-1120	Preschool Child Development	2
ECED-1220	Pre-Practicum	1
ENGL-2110	Children's Literature	3
	Lab Science GE Elective (recommend BIOS-1000)	3
	Elective (see advisor)	3
	Total Credits	**15**

3rd Semester		Credits
ECED-1160	Early Language & Literacy	3
ECED-1230	School-Age Child Development	2
ECED-1610	Infant Practicum	1
ECED-1620	Toddler Practicum	1
ECED-2060	Early Childhood Education Curriculum Planning	3
	Math GE Elective	3-4
	Oral Communication GE Elective	3
	Total Credits	**16-17**

4th Semester		Credits
ECED-1010	CDA Preparatory Seminar	3
ECED-1630	Preschool Practicum	1
ECED-1640	School Age Practicum	1
ECED-2050	Children with Exceptionalities	3
ECED-2070	Family & Community Relationships	3
	Social Science GE elective	3
	Total Credits	**14**

Total AAS Credits **60-61**

Education (Elementary)

AA.1312A (60 credits)
Associate of Arts
Alliance • Scottsbluff • Sidney

This emphasis area includes all coursework necessary to complete the general graduation requirements for the Associate of Arts degree. Emphasis is placed on coursework in the field of elementary education required by baccalaureate degree-issuing institutions. The coursework in elementary education meets the academic description and content necessary to fulfill the program requirements of four-year institutions and the teacher certification requirements of the State of Nebraska.

Program Outcomes

- Connect theory with classroom practice.
- Understand and apply practices and behaviors characteristic of developing professional teachers.
- Identify current issues in education and their impact on the classroom.
- Demonstrate respect for diversity in the classroom.
- Integrate successfully into a bachelor's degree program at a four-year institution.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum to best suit their transfer goals.
- Students should consult with their faculty advisor regarding the selection of the six (6) humanities and six (6) social sciences credits required of the general education program to best meet their future academic and career goals.

Program Requirements

AA General Education Core **31-32 credits**

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	6
Quantitative Reasoning	3-4
Lab Sciences	4

Personal Development	3
Social Science	6

Note: Some general education requirements may be satisfied by courses in field endorsement areas. Please consult with an advisor for details.

Secondary Education Core 30 credits

Class		Credits
EDUC-1110	Introduction to Professional Education	3
EDUC-2000	Educational Psychology	3
EDUC-2110	Children's Literature* (spring only/cross-listed with ENGL-2110)	3
EDUC-2300	The Exceptional Learner	3
EDUC-2590	Instructional Technology	3
EDUC-2860	Music for Elementary Teachers (fall only)	3
EDUC-2890	Math for Elementary Teachers*	3
PSYC-1810	Introduction to Psychology*	3
PSYC-2100	Child Growth & Development	3

**Fulfills general education requirement*

Electives 8 credits

Total AA Requirements 60 credits

Recommended Plan of Study

1st Semester		Credits
EDUC-1110	Introduction to Professional Education	3
ENGL-1010	English Composition I	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Lab Science GE elective	4
	Total Credits	**16**

2nd Semester		Credits
EDUC-2000	Educational Psychology	3
ENGL-1020	English Composition II	3
MATH-1180	Math for Elementary Teachers	3
PSYC-2100	Child Growth and Development	3
	Oral Communication GE elective	3
	Total Credits	**15**

3rd Semester		Credits
EDUC-2300	The Exceptional Learner	3
EDUC-2860	Music Education for Elementary Teachers	3
EDUC-2890	Art Education for Elementary Teachers	3
POLS-1000	American Government or History elective	3
	Humanities GE elective	3
	Total Credits	**15**

4th Semester		Credits
EDUC/ ENGL-2110	Children's Literature	3
EDUC-2590	Instructional Technology	3
	Electives	8
	Total Credits	**14**
	Total AA Credits	**60**

Education (Music)

AA.1313A (66 credits)
Associate of Arts
Scottsbluff

This emphasis area offers the first two years of basic music requirements for the baccalaureate degree in music education. The non-music courses that are suggested meet WNCC's requirements for the Associate of Arts degree.

Objectives

- Provide the music requirements in Music Theory and Ear Training.
- Provide music requirements in applied music major area and keyboard.
- Provide ensemble participation.
- Provide related education courses.
- Provide options in related areas of study.
- Provide options for music minor participation.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum to best suit their transfer goals.
- Students should consult with their faculty advisor regarding the selection of the six (6) humanities and six (6) social sciences credits required of the general education program to best meet their future academic and career goals.
- MUSC-2455 (Music Theory III) and MUSC-2475 (Music Theory IV) may not be offered every year. Students should check with their faculty advisors.

Program Requirements

AA General Education Core 31-32 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	6
Quantitative Reasoning	3-4
Lab Sciences	4
Personal Development	3
Social Science	6

Note: Some general education requirements may be satisfied by courses in field endorsement areas. Please consult with an advisor for details

Music Education Core 34 credits

Class		Credits
EDUC-1110	Introduction to Professional Education	3
EDUC-2860	Music Education for Elementary Teachers	3
MUSC-1000	Music Convocation (4 semesters)	0
MUSC-1010	Music Appreciation (Humanities GE)	3
MUSC-1110	Keyboarding Skills I	1
MUSC-1111	Keyboarding Skills II	1
MUSC-1112	Keyboarding Skills III	1
MUSC-1113	Keyboarding Skills IV	1
MUSC-1455	Music Theory I	3
MUSC-1455L	Music Theory Lab I	1
MUSC-1475	Music Theory II	3
MUSC-1475L	Music Theory Lab II	1
MUSC-2455	Music Theory III	3
MUSC-2455L	Music Theory Lab III	1
MUSC-2475	Music Theory IV	3
MUSC-2475L	Music Theory Lab IV	1
	Applied Music Lessons (4 semesters)	4
	Instrumental or Vocal Ensemble (4 semesters)	4

Total AA Requirements 66 credits

Recommended Plan of Study

1st Semester		Credits
EDUC-1110	Intro to Professional Education	3
ENGL-1010	English Composition I	3
MUSC-1000	Music Convocation	0
MUSC-1010	Music Appreciation	3
MUSC-1110	Keyboarding Skills I	1
MUSC-1455	Music Theory I	3
MUSC-1455L	Music Theory I Lab	1
	Applied Music Lesson	1
	Instrumental or Vocal Ensemble	1
	Total Credits	**16**

2nd Semester		Credits
ENGL-1020	English Composition II	3
MUSC-1000	Music Convocation	0
MUSC-1111	Keyboarding Skills II	1
MUSC-1475	Music Theory II	3
MUSC-1475L	Music Theory Lab I	1
POLS-1000	American Government	3
PSYC-1810	Introduction to Psychology	3
	Applied Music Lesson	1
	Instrumental or Vocal Ensemble	1
	Total Credits	**16**

3rd Semester		Credits
EDUC-2860	Music Education for Elementary Teachers	3
MUSC-1000	Music Convocation	0
MUSC-1112	Keyboarding Skills III	1
MUSC-2455	Music Theory III	3
MUSC-2455L	Music Theory Lab III	1
PRDV-1010	Achieving College Success	3
SPCH-1110	Public Speaking	3
	Applied Music Lesson	1
	Instrumental or Vocal Ensemble	1
	Total Credits	**16**

4th Semester		Credits
BIOS-1010	General Biology (with lab)	4
MUSC-1000	Music Convocation	0
MUSC-1113	Keyboarding Skills IV	1
MATH-1150	College Algebra (or higher)	4
MUSC-2475	Music Theory IV	3
MUSC-2475L	Music Theory Lab IV	1
	Applied Music Lesson	1
	Instrumental or Vocal Ensemble	1
	Humanities GE elective	3
	Total Credits	**18**

Total AA Credits 66

Education (Secondary)

Associate of Arts
Alliance • Scottsbluff • Sidney

The secondary education emphasis area provides the first two years of training in the field of secondary education and includes all coursework necessary to complete the general requirements of the Associate of Arts degree. Emphasis is placed on coursework required in the field of education and initial coursework in one's chosen teaching field. Programs are offered in the following field endorsement areas:

- Art
- Biology
- Business, Marketing, and Information Technology
- Chemistry
- English Language Arts
- Math
- Social Science
- Spanish

Coursework in these content areas in secondary education meets all the academic description and content necessary to fulfill program requirements of four-year institutions and teacher certification requirements of the State of Nebraska.

Program Outcomes

- Connect theory with classroom practice.
- Understand and apply practices and behaviors characteristic of developing professional teachers.
- Identify current issues in education and their impact on the classroom.
- Demonstrate respect for diversity in the classroom.

Integrate successfully into a bachelor's degree program at a four-year institution

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfers advisor early in their WNCC career to determine a curriculum to best suit their transfer goals.
- Students should discuss with their advisor and select an area of teaching emphasis for their elective credits.

Program Requirements

AA General Education Core 31-32 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	6
Quantitative Reasoning	3-4
Lab Sciences	4
Personal Development	3
Social Science	6

Note: Some general education requirements may be satisfied by courses in field endorsement areas. Please consult with an advisor for details.

Secondary Education Core 18 credits

Class		Credits
EDUC-1110	Introduction to Professional Education	3
EDUC-2000	Educational Psychology	3
EDUC-2300	The Exceptional Learner	3
EDUC-2590	Instructional Technology	3
PSYC-1810	Introduction to Psychology	3
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	

Required and/or Elective Endorsement Courses (see below) 12 credits

Total AA Requirements 61-63 credits

Art Field Endorsement Area

Associate of Arts (61-62 credits)
AA.1312D

In addition to the required 31-32 general education credits and 18 secondary education core credits, students seeking an art endorsement are required to take an additional nine (9) required credits and six (6) elective credits.

Required Endorsement Courses 9 credits

Class		Credit
ARTS-1550	Drawing I	3
ARTS-1650	Design Fundamentals I	3
ARTS-2400	Painting I	3

Elective Endorsement Courses (selected from below) 6 credits

Class		Credit
ARTS-1200	Clay Animation	3
ARTS-1580	Drawing Ii	3
ARTS-1680	Beginning Watercolor Painting	3
ARTS-2430	Painting II	3
ARTS-2450	Figure Drawing	3

ARTS-2460	Sculpture	3
EDUC-2890	Art Education for Elementary Teachers	3
PHOT-1900	Black/White Photography I	3
PHOT-1920	Black/White Photography II	3

Total AA Requirements 61-62 credits

Recommended Plan of Study

1st Semester		**Credits**
ARTS-1550	Drawing I	3
EDUC-1110	Introduction to Professional Education	3
ENGL-1010	English Composition I	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Total Credits	**15**

2nd Semester		**Credits**
EDUC-2000	Educational Psychology	3
ENGL-1020	English Composition II	3
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	
	Oral Communication GE elective	3
	Quantitative Reasoning GE elective (see advisor)	3-4
	Total Credits	**15-16**

3rd Semester		**Credits**
ARTS-2400	Painting I	3
EDUC-2300	The Exceptional Learner	3
	Art Endorsement Elective	3
	Humanities GE elective	3
	Lab Science GE elective	4
	Total Credits	**16**

4th Semester		**Credits**
ARTS-1650	Design Fundamentals I	3
EDUC-2590	Instructional Technology	3
	Art Endorsement Elective	3
	Humanities GE elective	3
	Social Science GE elective	3
	Total Credits	**15**
	Total AA Credits	**61-62**

Biology Field Endorsement Area

Associate of Arts (62-63 credits)
AA.1312E

In addition to the required 31-32 general education credits and 18 secondary education core credits, students seeking a biology endorsement are required to take an additional 12 required credits and eight (8) elective credits.

Required Endorsement Courses 12 credits (selected from below)

Class		**Credit**
BIOS-1010	General Biology (with lab)	4
BIOS-1380	Zoology (with lab)	4
CHEM-1050	Introduction to Chemistry (with lab)	4
	or	
CHEM-1090	General Chemistry I (with lab)	4
	and	
CHEM-1100	General Chemistry II (with lab)	4

Elective Endorsement Courses 8 credits (selected from below)

Class		**Credit**
BIOS-2120	Genetics (with lab)	4
BIOS-2250	Anatomy & Physiology I (with lab)	4
	and	
BIOS-2260	Anatomy & Physiology II (with lab)	4
BIOS-2460	Microbiology (with lab)	4
PHYS-1300	Physics I (with lab & recitation))	4
	and	
PHYS-1350	Physics II (with lab & recitation)	4

Total AA Requirements 62-63 credits

Recommended Plan of Study

1st Semester		**Credits**
BIOS-1010	General Biology (with lab)	4
EDUC-1110	Introduction to Professional Education	3
ENGL-1010	English Composition I	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Total Credits	**16**

2nd Semester		**Credits**
EDUC-2000	Educational Psychology	3
ENGL-1020	English Composition II	3
MATH-1150	College Algebra or other Math course (see advisor)	3-4
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	

	Oral Communication GE elective	3
	Total Credits	**15-16**

3rd Semester		**Credits**
CHEM-1050	Introduction to Chemistry (with lab)	4
	or	
CHEM-1090	General Chemistry I	
EDUC-2300	The Exceptional Learner	3
	Biology Endorsement elective	4
	Humanities GE elective	3
	Total Credits	**14**

4th Semester		**Credits**
BIOS-1380	Zoology (with lab)	4
CHEM-1100	General Chemistry II (with lab) or Biology Endorsement elective	4
EDUC-2590	Instructional Technology	3
	Humanities GE elective	3
	Social Science GE elective	3
	Total Credits	**17**
	Total AA Credits	**62-63**

Business, Marketing, & Information Technology Field Endorsement Area

Associate of Arts (61-62 credits)
AA.1312F

In addition to the required 31-32 general education credits and 18 secondary education core credits, students seeking a business, marketing, and information technology endorsement are required to take an additional 12-15 required credits.

Elective Endorsement Courses (selected from below) 12-15 credits

Class		**Credit**
ACCT-1200	Principles of Accounting I	3
ACCT-1210	Principles of Accounting II	3
BSAD-2520	Principles of Marketing	3
BSAD-2540	Principles of Management	3
ECON-2110	Principles of Macroeconomics (spring only)	3
ECON-2120	Principles of Microeconomics (fall only)	3
INFO-1100	Microcomputer Applications	3
INFO-2000	Advanced Microcomputer Apps (spring only)	3

Total AA Requirements 61-62 credits

Recommended Plan of Study

1st Semester		**Credits**
ACCT-1200	Principles of Accounting I	3
EDUC-1110	Introduction to Professional Education	3
ENGL-1010	English Composition I	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Total Credits	**15**

2nd Semester		**Credits**
ACCT-1210	Principles of Accounting II	3
EDUC-2000	Educational Psychology	3
ENGL-1020	English Composition II	3
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	
	Oral Communication GE elective	3
	Total Credits	**15**

3rd Semester		**Credits**
EDUC-2300	The Exceptional Learner	3
MATH-1150	College Algebra or other Math course (see advisor)	3-4
	Business Endorsement elective	3
	Humanities GE elective	3
	Lab Science GE elective	4
	Total Credits	**16-17**

4th Semester		**Credits**
EDUC-2590	Instructional Technology	3
	Business Endorsement electives (2)	6
	Humanities GE elective	3
	Social Science GE elective (recommend ECON-2110 or ECON-2120)	3
	Total Credits	**15**
	Total AA Credits	**61-62**

Chemistry Field Endorsement Area

Associate of Arts (62-63 credits)
AA.1312G

In addition to the required 31-32 general education credits and 18 secondary education core credits, students seeking a chemistry endorsement are required to take an additional 20 required credits.

Required Endorsement Courses 20 credits

Class		Credit
BIOS-1010	General Biology (with lab)	4
CHEM-1090	General Chemistry I (with lab)	4
CHEM-1100	General Chemistry II (with lab)	4
CHEM-2510	Organic Chemistry I (with lab)	4
CHEM-2520	Organic Chemistry II (with lab)	4

Total AA Requirements 62-63 credits

Recommended Plan of Study

1st Semester		Credits
CHEM-1090	General Chemistry I (with lab)	4
EDUC-1110	Introduction to Professional Education	3
ENGL-1010	English Composition I	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Total Credits	**16**

2nd Semester		Credits
CHEM-1100	General Chemistry II (with lab)	4
EDUC-2000	Educational Psychology	3
ENGL-1020	English Composition II	3
MATH-1150	College Algebra or other Math course (see advisor)	3-4
	Oral Communication GE elective	3
	Total Credits	**16-17**

3rd Semester		Credits
BIOS-1010	General Biology (with lab)	4
CHEM-2510	Organic Chemistry I (with lab)	4
EDUC-2300	The Exceptional Learner	3
	Humanities GE elective	3
	Social Science GE elective	3
	Total Credits	**17**

4th Semester		Credits
CHEM-2520	Organic Chemistry II (with lab)	4
EDUC-2590	Instructional Technology	3
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	
	Humanities GE elective	3
	Total Credits	**13**
	Total AA Credits	**62-63**

English Language Arts Field Endorsement Area

Associate of Arts (60-62 credits)
AA.1312H

In addition to the required 31-32 general education credits and 18 secondary education core credits, students seeking an English language arts endorsement are required to take an additional 12 required credits.

Required Endorsement Courses 12 credits

Class		Credit
ENGL-2070	American Literature, 1865-present	3
ENGL-2110	Children's Literature	3
	or	
ENGL-2900A	Nebraska Literature	
ENGL-2130	Survey of English Literature	3
ENGL-2190	The Novel	3

Total AA Requirements 60-62 credits

Recommended Plan of Study

1st Semester		Credits
EDUC-1110	Introduction to Professional Education	3
ENGL-1010	English Composition I	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Lab Science GE elective	4
	Total Credits	**16**

2nd Semester		Credits
EDUC-2000	Educational Psychology	3
ENGL-1020	English Composition II	3
ENGL-2110	Children's Literature	3
	or	
ENGL-2900A	Nebraska Literature	
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	
	Oral Communication GE elective	3
	Total Credits	**15**

3rd Semester		Credits
EDUC-2300	The Exceptional Learner	3
ENGL-2070	American Literature, 1865-Present	3
ENGL-2190	The Novel	3
	Elective	3

	Quantitative Reasoning GE elective (see advisor)	3-4
	Total Credits	**15-16**

4th Semester		**Credits**
EDUC-2590	Instructional Technology	3
ENGL-2130	Survey of English Literature I	3
	Elective	2-3
	Humanities GE Elective	3
	Social Science GE Elective	3
	Total Credits	**14-15**
	Total AA Credits	**60-62**

Math Field Endorsement Area

Associate of Arts (61-63 credits)
AA.1312I

In addition to the required 31-32 general education credits and 18 secondary education core credits, students seeking a math endorsement are required to take an additional 18 required credits.

Required Endorsement Courses 18 credits

Class		**Credit**
MATH-1600	Analytic Geometry & Calculus	5
MATH-2150	Calculus II	5
MATH-2200	Calculus III	5
MATH-2210	Applied Differential Equations	3

Total AA Requirements 61-63 credits

Recommended Plan of Study

1st Semester		**Credits**
EDUC-1110	Introduction to Professional Education	3
ENGL-1010	English Composition I	3
MATH-1600	Analytic Geometry & Calculus or other Math course (see advisor)	4-5
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Total Credits	**16-17**

2nd Semester		**Credits**
EDUC-2000	Educational Psychology	3
ENGL-1020	English Composition II	3
MATH-2150	Calculus II or other Math course (see advisor)	4-5
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	
	Oral Communication GE elective	3
	Total Credits	**16-17**

3rd Semester		**Credits**
EDUC-2300	The Exceptional Learner	3
MATH-2200	Calculus III or other Math course (see advisor)	4-5
	Humanities GE elective	3
	Lab Science GE elective	4
	Total Credits	**14-15**

4th Semester		**Credits**
EDUC-2590	Instructional Technology	3
MATH-2210	Applied Differential Equations or other Math course (see advisor)	3-5
	Elective	3
	Humanities GE elective	3
	Social Science elective	3
	Total Credits	**15-17**
	Total AA Credits	**61-63**

Social Science Field Endorsement Area

Associate of Arts (61-62 credits)
AA.1312J

In addition to the required 31-32 general education credits and 18 secondary education core credits, students seeking a social science endorsement are required to take an additional 15 required credits.

Required Endorsement Courses 15 credits

Class		**Credit**
HIST-2010	American History I	3
HIST-2020	American History II	3
HIST-2100	World Civilization (4000BC-1500AD)	3
HIST-2110	World Civilization (1500AD-Present)	3
POLS-1000	American Government	3

Total AA Requirements 61-62 credits

Recommended Plan of Study

1st Semester		**Credits**
EDUC-1110	Introduction to Professional Education	3
ENGL-1010	English Composition I	3
HIST-2010	American History I	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Total Credits	**15**

2nd Semester		Credits
EDUC-2000	Educational Psychology	3
ENGL-1020	English Composition II	3
HIST-2020	American History II	3
MATH-1150	College Algebra or other Math course (see advisor)	3-4
	Oral Communication GE elective	3
	Total Credits	**15-16**

3rd Semester		Credits
EDUC-2300	The Exceptional Learner	3
HIST-2100	World Civilization (4000BC-1500AD)	3
POLS-1000	American Government	3
	Humanities GE elective	3
	Lab Science GE elective	4
	Total Credits	**16**

4th Semester		Credits
EDUC-2590	Instructional Technology	3
HIST-2110	World Civilization (1500AD-Present)	3
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	
	Electives (2)	6
	Total Credits	**15**
	Total AA Credits	**61-62**

Spanish Field Endorsement Area

Associate of Arts (62-63 credits)
AA.1312K

In addition to the required 31-32 general education credits and 18 secondary education core credits, students seeking a Spanish endorsement are required to take an additional ten (10) required credits and nine (9) elective credits.

Required Endorsement Courses 10 credits

Class		Credit
SPAN-1010	Elementary Spanish I	5
SPAN-1020	Elementary Spanish II	5

Elective Endorsement Courses 9 credits

Class		Credit
ANTH-2130	Mexican-American & Native American Cultures	3
	Electives	6

Total AA Requirements 62-63 credits

Recommended Plan of Study

1st Semester		Credits
EDUC-1110	Introduction to Professional Education	3
ENGL-1010	English Composition I	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
SPAN-1010	Elementary Spanish I	5
	Total Credits	**17**

2nd Semester		Credits
EDUC-2000	Educational Psychology	3
ENGL-1020	English Composition II	3
MATH-1150	College Algebra or other Math course (see advisor)	3-4
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	
SPAN-1020	Elementary Spanish II	5
	Total Credits	**17-18**

3rd Semester		Credits
EDUC-2300	The Exceptional Learner	3
	Spanish endorsement elective	3
	Humanities GE elective	3
	Lab Science GE elective	4
	Oral Communication GE elective	3
	Total Credits	**16**

4th Semester		Credits
ANTH-2130	Mexican-American & Native American Cultures	3
EDUC-2590	Instructional Technology	3
	Humanities GE elective	3
	Social Science GE elective	3
	Total Credits	**13**
	Total AA Credits	**62-63**

Emergency Medical Services

Associate of Applied Science
Certificate (Paramedic)
Scottsbluff

Courses in Emergency Medical Services (EMS) prepare students with the skills necessary for a career as an emergency medical responder (EMR), emergency medical technician (EMT), or paramedic (PM). Emergency Medical Services coursework provides

graduates with progressive levels of knowledge and skills to deliver care for medical and trauma emergencies prior to arrival at a hospital.

Technical Standards

Upon successful completion of a course in emergency medical services, students will be able to:

Critical Thinking

- Apply knowledge and experience in the determination of appropriate emergency patient care.
- Evaluate and monitor patient's objective and subjective responses to emergency care.
- Interpret, prioritize, problem solve, and demonstrate critical thinking in emergency protocols.

- **Direct care**
  - Apply knowledge and experience in the assessment of patients and emergency scene to provide appropriate and safe patient care.
  - Utilize equipment according to squad protocols.
  - Perform direct patient care based on evaluation of specific emergency situation utilizing established squad protocols.
  - Perform CPR and other basic life support functions.
  - Transport and transfer patients/clients.
- **Collection of Patient Information**
  - Apply knowledge and experience in the assessment of patients in order to perform emergency care.
  - Maintain accurate medical records.
- **Communication**
  - Effectively communicate in English both verbally and in written form with patients, patient families, and other health care professionals.
- **Professional Attitude and Behavior**
  - Demonstrate a commitment to an environment of mutual respect, trust, integrity, and reliability in interactions with patients, their families and other healthcare professionals.
- **Safety**
  - Apply knowledge and experience in the assessment of safety in patient care treatment and environment.
  - Demonstrate proficiency in and strict adherence to squad protocols for the provision of care.
  - Perform Quality Control Procedures
  - Ensure infection control.

Program Outcomes

- Execute the role of the entry-level Emergency Medical Services provider in a manner consistent with ethical principles an legal requirements (affective domain).
- Communicate effectively with patients, family members, and other members of the health care system (affective domain).
- Integrate current evidence-based protocols into Emergency Medical Services practices (cognitive and psychomotor domain).
- Properly manage medical and traumatic emergencies in clinical and field settings (cognitive and psychomotor domain).
- Provide competent leadership in complex emergency settings, including: ground and air ambulance operations, multiple casualty incidents, hazardous materials, crime scenes, terrorist attacks, and rural settings (cognitive, psychomotor, and affective domains).

Prerequisites

- Current National Registry or Nebraska EMS, EMT, Advanced Emergency Medical Technician (AEMT), or Intermediate licensure in good standing.
- Current cardiopulmonary resuscitation (CPR) card from state board approved agency maintained throughout the entire program.
- Copy of current immunization records.
- Current National Registry or Nebraska EMS, EMT, Advanced Emergency Medical Technician (AEMT), or Intermediate licensure in good standing.
- Proof of recent physical examination completed by a physician, physician's assistant, or nurse practitioner.
- All student provisionally accepted to the program are required to undergo a criminal background check as part of the admissions process.
- Full admission to the program is contingent upon completion of the background check, immunization, and physical examination requirements.

Associate of Applied Science

AAS.5109B (66-67 credits)

The Associate of Applied Science degree in Emergency Medical Services couples the 42 credits required for the Paramedic certificate (see below) with the 16-17 hours of general education requirements of the AAS. Two academic pathways are offered – one for the student who is currently registered/licensed as an EMG/AEMT/Intermediate and one for the student who needs to secure this licensure.

Upon successful completion of the program, the student will be eligible to take the National Registry of Emergency Medical Technicians Paramedic written and psychomotor skills examination.

Program Requirements

AAS General Education Core — 16-17 credits

Class		Credits
Written Communication*		3
Oral Communication		3
Quantitative Reasoning*		3-4
Social or Lab Science (lab science required)		4
Personal Development		3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

EMT Prerequisite — 8 credits

Class		Credits
EMSP-1500	Emergency Medical Technician	8

Paramedic Core Courses — 42 credits

Class		Credits
EMSP-2000	Introduction to Paramedicine	3
EMSP-2050	Pathophysiology, Pharmacology, Airway Management	4
EMSP-2100	Patient Assessments	3
EMSP-2150	Pulmonology & Cardiology	4
EMSP-2200	Medical Emergencies	4
EMSP-2250	Trauma Emergencies	3
EMSP-2300	Trauma & Special Considerations	3
EMSP-2350	EMS Operations	3
EMSP-2400	Paramedic Practicum I	5
EMSP-2500	Paramedic Practicum II	5
EMSP-2600	Paramedic Practicum III	5

Total AAS Requirements — 66-67 credits

Recommended Plans of Study

Option 1: If not currently registered/licensed as an EMT/AEMT/Intermediate

1st Semester (fall)		Credits
BIOS-1160	Intro to Human Anatomy & Physiology	4
	or	
LPNR-1110	Body Structure & Function	
EMSP-1500	Emergency Medical Technician	8
	Total Credits	**12**
2nd Semester (spring)		**Credits**
PRDV-1010	Achieving College Success	3
	Mathematics GE elective	3-4
	Oral Communication GE elective	3
	Written Communication GE elective	3
	Total Credits	**12-13**
3rd Semester (fall)		**Credits**
EMSP-2000	Introduction to Paramedicine	3
EMSP-2050	Pathophysiology, Pharmacology, Airway Management	4
EMSP-2100	Patient Assessments	3
EMSP-2400	Paramedic Practicum I	5
	Total Credits	**15**
4th Semester (spring)		**Credits**
EMSP-2150	Pulmonology & Cardiology	4
EMSP-2200	Medical Emergencies	4
EMSP-2250	Trauma Emergencies	3
EMSP-2500	Paramedic Practicum II	5
	Total Credits	**16**
5th Semester (summer)		**Credits**
EMSP-2300	Trauma & Special Considerations	3
EMSP-2350	EMS Operations	3
EMSP-2600	Paramedic Practicum III	5
	Total Credits	**11**
	Total AAS Credits	**66-67**

Recommended Plans of Study

Option 2: If currently registered/licensed as an EMT/AEMT/Intermediate

1st Semester (spring)		Credits
BIOS-1160	Intro to Human Anatomy & Physiology	4
	or	
LPNR-1110	Body Structure & Function	
PRDV-1010	Achieving College Success	3
	Math GE elective	3-4
	Oral Communication GE elective	3
	Written Communication GE elective	3
	Total Credits	**16-17**
2nd Semester (fall)		**Credits**
EMSP-2000	Introduction to Paramedicine	3

EMSP-2050	Pathophysiology, Pharmacology, Airway Management	4
EMSP-2100	Patient Assessments	3
EMSP-2400	Paramedic Practicum I	5
	Total Credits	**15**
3rd Semester (spring)		**Credits**
EMSP-2150	Pulmonology & Cardiology	4
EMSP-2200	Medical Emergencies	4
EMSP-2250	Trauma Emergencies	3
EMSP-2500	Paramedic Practicum II	5
	Total Credits	**16**
4th Semester (summer)		**Credits**
EMSP-2300	Trauma & Special Considerations	3
EMSP-2350	EMS Operations	3
EMSP-2600	Paramedic Practicum III	5
	Total Credits	**11**
	Total Earned Credits	**58-59**
	Credit for Prior Learning (EMSP-1500)	8
	or	
	Elective	2-3
	Total AAS Credits	**60-67**

Certificate (Paramedic)

C2.5109B (42 credits)

The Paramedic certificate is a combination of classroom, laboratory, and learning experiences offered through hospital and on-ambulance clinicals. The certificate is designed to be completed in 12 months. Upon successful completion of the prescribed courses, the student will be eligible to take the National Registry of Emergency Medical Technician Paramedic written and psychomotor skills examination.

The WNCC Paramedic program has been issued a Letter of Review by the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). This is not a CAAHEP accreditation status; it is a status signifying that a program seeking initial accreditation has demonstrated sufficient compliance with the accreditation standards. The Letter of Review is recognized by the National Registry of Emergency Medical Technicians (NREMT) for eligibility to take NREMT's paramedic credentialing examinations. However it is not a guarantee of eventual accreditation.

The CoAEMSP Executive Office can be contacted at 8301 Lakeview Parkway, Suite 111-312, Rowlett, TX 75088 or by calling 214-703-8445 or at **www.coaemsp.org**.

Recommended Plan of Study

1st Semester (fall)		**Credits**
EMSP-2000	Introduction to Paramedicine	3
EMSP-2050	Pathophysiology, Pharmacology, Airway Management	4
EMSP-2100	Patient Assessments	3
EMSP-2500	Paramedic Practicum I	5
	Total Credits	**15**
2nd Semester (spring)		**Credits**
EMSP-2150	Pulmonology & Cardiology	4
EMSP-2200	Medical Emergencies	4
EMSP-2250	Trauma Emergencies	3
EMSP-2500	Paramedic Practicum II	5
	Total Credits	**16**
3rd Semester (summer)		**Credits**
EMSP-2300	Trauma & Special Considerations	3
EMSP-2350	EMS Operations	3
EMSP-2600	Paramedic Practicum III	5
	Total Credits	**11**
	Total Certificate Credits	**42**

(Pre) Engineering

AS.1401 (60-69 credits)
Associate of Science
Scottsbluff

The pre-engineering emphasis area is designed for those students who are interested in the field of engineering. This emphasis area offers knowledge and skills in science, mathematics, engineering, and general education that are common to many engineering disciplines and normally required of freshman and sophomore engineering students. This program is in alignment with the STEP program for direct transfer to the University of Nebraska – Lincoln (UNL).

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a scientist. Required competencies may include the accumulation of knowledge in earth and space science, general biology, general chemistry, introductory physics, and organic chemistry. Stimulate interest in chemistry and fields related to chemistry.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-

year institutions to continue their chosen field of study.

- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of their chosen field.
- Use knowledge of basic scientific principles to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, technological advances, and demonstrate knowledge of contemporary social and ethical issues relate to scientists and the professional responsibilities of a scientist.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from biology, mathematics, and other disciplines to physical science concepts.
- Will demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Students will be able to function successfully within laboratory settings, including use of basic equipment (measurement devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; utilization of computer resources including computer presentation.
- Apply skills and abilities identified as WNCCs five major general education goals.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the Associate of Science Degree

Notes

- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum to best suit their transfer goals.
- Students and advisors should note that although math options exist for students, depending on the math level upon entering WNCC, only Calculus I (MATH-1600) and above will be applicable toward a four-year engineering degree.
- Substitutions in the science/math courses listed can be made depending on the area of interest. Please see a faculty advisor and/or curriculum lead of the Division of Math and Science for possible substitutions.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in the journey to the bachelor's or professional degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	7-8
Natural Sciences*	7-8
Personal Development	3
Social Science	3

** A minimum of 15-16 credits of combined science and math credits are required for the AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements — 28 credits

Class		Credits
ENGR-1020	Programming & Problem Solving	3
MATH-1600	Analytic Geometry & Calculus I	5
MATH-2150	Calculus II	5
MATH-2200	Calculus III	5
PHYS-2400	Physics I w/ Calculus (and lab & recitation)	5
PHYS-2450	Physics II w/ Calculus (and lab & recitation)	5

Technical Electives or Courses Required for Transfer: — 14 credits

Class		Credits
CHEM-1090	General Chemistry I (and lab)	4
ECEN-2110	Intro to Circuits and Electronics	3
ENGR-1010	Introduction to Engineering Design	3
ENGR-1070	Graphics for Engineers	3

ENGR-2020	Statics	3
MATH-2210	Applied Differential Equations	3

Total AS Requirements 60-69 credits

Recommended Plan of Study

1st Semester		**Credits**
ENGL-1010	English Composition I	3
ENGR-1010	Introduction to Engineering Design	3
MATH-1600	Analytic Geometry & Calculus I (or selected math class)	3-5
PRDV-1010	Achieving College Success	3
	Technical Elective (#1)	3-4
	Total Credits	**15-18**
2nd Semester		**Credits**
ENGL-1020	English Composition II	3
ENGR-1020	Programming and Problem Solving	3
MATH-2150	Calculus II (or selected math class)	3-5
	Technical Elective (#2)	3-4
	Humanities GE Requirement	3
	Total Credits	**15-18**
3rd Semester		**Credits**
MATH-2200	Calculus III (or selected math class)	3-5
PHYS-2400	Physics I with Calculus (and lab & recitation)	5
	Technical Elective (#3)	3-4
	Oral Communication GE Require	3
	Total Credits	**14-17**
4th Semester		**Credits**
PHYS-2450	Physics II with Calculus	5
	Technical elective (#4)	3-4
	Technical elective (#5)	3-4
	Social Science GE Requirement	3
	Total Credits	**14-16**
	Total AS Credits	**(min) 60-69**

Exercise Science

Associate of Science
Scottsbluff

The Associate of Science degree in Exercise Science offers students two options: physical education and health and fitness studies. Students who choose the physical education option will earn credits to transfer to a four-year school to become a physical education teacher. Students who choose the health and fitness studies option may complete coursework and seek employment or transfer to another institution for further study. This program is for students who are interested in the health fitness industry.

Program Outcomes

- Summarize major factors in the evolution of the field of exercise science from its inception to its present position in exercise-related careers, based on historical and technological changes.
- Develop physical fitness/health assessment and maintenance programs.
- Demonstrate comprehension of the sciences applied to human function and exercise.
- Demonstrate leadership and interpersonal communication skills relevant to the improvement of human performance.
- Prepare students for transfer to a four-year institution in the fields of exercise science and physical education.

Notes

- Substitutions must have the permission of the faculty advisor, the chair of the Social Science and Human Performance Division, the Dean of Instruction, and the Registrar. Please see the division chair for the appropriate form for substitution.
- Students who plan to transfer to a four-year college or university should consult their faculty advisor and transfer advisor early in their WNCC career to determine an appropriate curriculum.

Physical Education Option

AS.1313E (60 credits)

Program Requirements

AS General Education Core 30 credits

Class	**Credits**
Written Communication	6
Oral Communication	3
Math*	4
MATH-1150 (College Algebra) or higher recommended	
Lab Sciences*	8
BIOS-2250 (Human Anatomy & Physiology I) and BIOS-2260 (Human Anatomy & Physiology II), with labs, recommended	
Humanities	3
HUMS-1100 (Intro to Humanities) recommended	

Social Science		3
PSYC-1810 (General Psychology) recommended		
Personal Development		3

** A minimum of 15-16 credits of combined science and math credits are required for the AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options. These 15-16 credits apply to the core requirements for pre-engineering.*

Core Program Requirements 30 credits

Class		Credit
ATHC-1710	Introduction to Physical Education	3
BIOS-1000	Basic Nutrition	3
BIOS-1010	General Biology (and lab)	4
EDUC-1100	Introduction to Professional Education	3
EDUC-2000	Educational Psychology	3
EDUC-2300	Exceptional Learner	3
EDUC-2590	Instructional Technology	3
PHED-1551	Weight Training	1
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	
	PE Activity Elective (see list below)	1
	General Elective (see list below)	3

PE Activity Elective Options:

Class		Credits
PHED-1024	Yoga-Flex	1
PHED-1026	Yoga/Pilates Mix	1
PHED-1035	Cardio Fitness	1

General Elective Options:

Class		Credits
ATHC-1730	Introduction to Coaching	3
PHED-2010	Prevention & Care of Athletic Injuries	3

Total AS Requirements 60 credits

Recommended Plan of Study

1st Semester		Credits
ATHC-1710	Introduction to Physical Education	3
EDUC-1100	Intro to Professional Education	3
ENGL-1010	English Composition I	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Total Credits	**15**

2nd Semester		Credits
BIOS-1010	General Biology (and lab)	4
EDUC-2000	Educational Psychology	3
ENGL-1020	English Composition II	3
MATH-1150	College Algebra (or higher)	4
PHED-1551	Weight Training	1
	Total Credits	**15**

3rd Semester		Credits
BIOS-1000	Basic Nutrition	3
BIOS-2250	Human Anatomy and Physiology I (and lab)	4
EDUC-2300	Exceptional Learner	3
	Oral Communication GE require	3
	General Elective Option	2-3
	Total Credits	15**-16**

4th Semester		Credits
BIOS-2260	Human Anatomy and Physiology II (and lab)	4
EDUC-2590	Instructional Technology	3
HUMS-1100	introduction to the Humanities	3
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	
	PE Activity Elective	1
	Total Credits	**14**
	Total AS Credits	**60**

Health & Fitness Studies Option

AS.1313F (61 credits)

Program Requirements

AS General Education Core 30 credits

Class	Credits
Written Communication	6
Oral Communication	3
Math*	4
MATH-1150 (College Algebra) or higher recommended	
Lab Sciences*	8
BIOS-2250 (Human Anatomy & Physiology I) and BIOS-2260 (Human Anatomy & Physiology II), with labs, recommended	
Humanities	3
HUMS-1100 (Intro to Humanities) recommended	
Social Science	3
PSYC-1810 (General Psychology) recommended	
Personal Development	3

** A minimum of 15-16 credits of combined science and math credits are required for the AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options. These 15-16 credits apply to the core requirements for pre-engineering.*

Core Program Requirements 31 credits

Class		Credit
ATHC-1200	Sports Psychology	3
ATHC-1710	Introduction to Physical Education	3
BIOS-1000	Basic Nutrition	3
PHED-1551	Weight Training	1
PHED-1790	Personal Health	3
PHED-2010	Prevention & Care of Athletic Injuries	3
PHED-xxxx*	Designing Personal Fitness	3
PHED-xxxx*	First Aid	2
PHED-xxxx*	Group Exercise	3
PHYS-1225	Science of Sports (and lab)	4
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	

**course in development*

Total AS Requirements 61 credits

Recommended Plan of Study

1st Semester		Credits
ATHC-1710	Introduction to Physical Education	3
BIOS-1000	Basic Nutrition	3
ENGL-1010	English Composition I	3
PHED-1790	Personal Health	3
PRDV-1010	Achieving College Success	3
	Total Credits	**15**

2nd Semester		Credits
ENGL-1020	English Composition II	3
HUMS-1100	Introduction to the Humanities	3
MATH-1150	College Algebra (or higher)	4
PHED-1551	Weight Training	1
PHED-2010	Prevention & Care of Athletic Injuries	3
PHED-xxxx*	Group Exercise	3
	Total Credits	**17**

3rd Semester		Credits
BIOS-2250	Human Anatomy and Physiology I (and lab)	4
PHED-xxxx*	Designing a Personal Fitness Program	3
PHED-xxxx*	First Aid	2
PSYC-1810	General Psychology	3
	Oral Communication GE require	3
	Total Credits	**15**

4th Semester		Credits
ATHC-1200	Psychology of Sports	3
BIOS-2260	Human Anatomy and Physiology II (and lab)	4
PHYS-1225	Science of Sports (and lab)	4
PSYC-2100	Child Growth & Development	3
	or	
PSYC-2150	Life Span: Human Growth & Dev.	
	Total Credits	**14**
	Total AS Credits	**61**

Fine Arts

Associate of Fine Arts
Scottsbluff

An Associate of Fine Arts (AFA) degree prepares students for careers and/or advanced study a four-year college or university. The degree consists of a core of general education courses with remaining courses focusing on specific fine arts curricula. Areas of focus within the AFA degrees include the following six options:

- Interdisciplinary
- Music
- Music Performance
- Musical Theatre
- Theatre
- Visual Arts

The proposed degree requires 31-32 hours of general education courses and a minimum of 28-29 hours in a fine arts field of choice (art, music, or theatre). An interdisciplinary option is available with a core set of courses form art, theatre, and music totaling 23 hours and six (6) elective hours from any of the fine arts areas.

Program Outcomes

New program objectives are currently in development. Please see the chair of the Language and Fine Arts Division for more information.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfers advisor early in their WNCC career to determine a curriculum to best suit their transfer goals.

Program Requirements

AFA General Education Core — 31-32 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities (two courses from different alpha)	6
Math	3-4
Lab Sciences	4
Personal Development	3
Social Sciences (two courses from different alpha)	6

Note: Some general education requirements may be satisfied by courses in field endorsement areas. Please consult with an advisor for details.

Required AFA Core Courses or Electives (by discipline) — 28-29 credits

Total AFA Credits — 60 credits

Interdisciplinary AFA Option

Associate of Fine Arts (60 credits)
AFA.2401

In addition to the required 31-32 general education credits, students seeking the interdisciplinary option are required to take an additional 23 required and six (6) elective credits.

Required Core Courses — 23 credits

Class		Credit
ARTS-1080	Introduction to Visual Arts	3
ARTS-1650	Design Fundamentals	3
MUSC-1010	Music Appreciation	3
MUSC-1410	Music Fundamentals	3
MUSC-1455	Music Theory I	3
MUSC-1455L	Music Theory I Lab	1
THEA-2660	Acting I	3
THEA-1860	Technical Production I	3
	Band or Choir Ensemble	1

Elective Courses from Art, Music, or Theatre — 6 credits

Total AFA Requirements — 60 credits

Recommended Plan of Study

1st Semester		Credits
ARTS-1080	Introduction to Visual Arts	3
ENGL-1010	English Composition I	3
MUSC-1455	Music Theory I	3
MUSC-1455L	Music Theory Lab I	1
PRDV-1010	Achieving College Success	3
THEA-1010	Introduction to Theatre	3
	Total Credits	**16**

2nd Semester		Credits
ARTS-1050	Art History & Criticism I	3
ENGL-1020	English Composition II	3
MUSC-1410	Music Fundamentals	3
MATH-2170	Applied Statistics	3
	General elective	3
	Total Credits	**15**

3rd Semester		Credits
ARTS-1650	Design Fundamentals I	3
MUSC-1010	Music Appreciation	3
THEA-1860	Technical Production I	3
THEA-2660	Acting I	3
PSYC-1810	Introduction to Psychology	3
	Band or Choir Ensemble	1
	Total Credits	**16**

4th Semester		Credits
BIOS-1010	General Biology (and lab)	4
SOCI-2150	Issues of Unity & Diversity	3
SPCH-1110	Public Speaking	3
	General elective	3
	Total Credits	**13**
	Total AFA Credits	**60**

Music AFA Option

Associate of Fine Arts (60 credits)
AFA.5009A

In addition to the required 31-32 general education credits, students seeking the music option are required to take a minimum of an additional 29 required credits.

Required Core Courses (minimum) — 29 credits

Class		Credit
MUSC-1000	Convocation	0
MUSC-1110	Keyboarding Skills I*	1
MUSC-1111	Keyboarding Skills II*	1
MUSC-1112	Keyboarding Skills III*	1
MUSC-1113	Keyboarding Skills IV*	1
MUSC-1115	Piano Proficiency	0
MUSC-1455	Music Theory I	3
MUSC-1455L	Music Theory I Lab I	1

MUSC-1475	Music Theory II	3
MUSC-1475L	Music Theory Lab II	1
MUSC-2455	Music Theory III	3
MUSC-2455L	Music Theory Lab III	1
MUSC-2475	Music Theory IV	3
MUSC-2475L	Music Theory Lab IV	1
	Applied Music (taken all four semesters)	4
	Band or Choir Ensemble** (taken all four semesters)	4
	Music Elective	1

*Alternate instrument may be substituted upon successful completion of Piano Proficiency.

**Ensemble placement is based on instrument studies in Applied Music.

Total AFA Requirements 60 credits

Recommended Plan of Study

1st Semester		Credits
MUSC-1000	Convocation	0
MUSC-1010	Music Appreciation	3
MUSC-1110	Keyboard Skills I	1
MUSC-1455	Music Theory I	3
MUSC-1455L	Music Theory Lab I	1
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Applied Music I	1
	Band or Choir Ensemble	1
	Total Credits	**16**

2nd Semester		Credits
BIOS-1010	General Biology (and lab)	4
MATH-1170	Math Applications	3
MUSC-1000	Convocation	0
MUSC-1111	Keyboard Skills II	1
MUSC-1475	Music Theory I	3
MUSC-1475L	Music Theory Lab I	1
	Applied Music II	1
	Band or Choir Ensemble	1
	Total Credits	**14**

3rd Semester		Credits
ENGL-1010	English Composition I	3
HIST-2110	World Civilization (4000BC-1500AC)	3
MUSC-1000	Convocation	0
MUSC-1112	Keyboard Skills III	1
MUSC-2455	Music Theory I	3
MUSC-2455L	Music Theory Lab I	1
	Applied Music III	1
	Band or Choir Ensemble	1
	Music Elective	1
	Total Credits	**14**

4th Semester		Credits
ENGL-1020	English Composition II	3
MUSC-1000	Convocation	0
MUSC-1113	Keyboard Skills IV	1
MUSC-1115	Piano Proficiency	0
MUSC-2475	Music Theory I	3
MUSC-2475L	Music Theory Lab I	1
SOCI-2150	Issues of Unity & Diversity	3
SPCH-1110	Public Speaking	3
	Applied Music IV	1
	Band or Choir Ensemble	1
	Total Credits	**16**

Total AFA Credits 60

Music Performance AFA Option

Associate of Fine Arts (63 credits)
AFA.5009B

In addition to the required 31-32 general education credits, students seeking the music performance option are required to take a minimum of an additional 32 required credits.

Required Core Courses (minimum) 32 credits

Class		Credit
MUSC-1000	Convocation	0
MUSC-1110	Keyboarding Skills I*	1
MUSC-1111	Keyboarding Skills II*	1
MUSC-1112	Keyboarding Skills III*	1
MUSC-1113	Keyboarding Skills IV*	1
MUSC-1115	Piano Proficiency	0
MUSC-1455	Music Theory I	3
MUSC-1455L	Music Theory I Lab I	1
MUSC-1475	Music Theory II	3
MUSC-1475L	Music Theory Lab II	1
MUSC-2455	Music Theory III	3
MUSC-2455L	Music Theory Lab III	1
MUSC-2475	Music Theory IV	3
MUSC-2475L	Music Theory Lab IV	1
	Applied Music Performance (taken all four semesters)	8

	Band or Choir Ensemble** (taken all four semesters)	4

*Alternate instrument may be substituted upon successful completion of Piano Proficiency.

**Ensemble placement is based on instrument studies in Applied Music.

Total AFA Requirements 60 credits

Recommended Plan of Study

1st Semester		Credits
MUSC-1000	Convocation	0
MUSC-1010	Music Appreciation	3
MUSC-1110	Keyboard Skills I	1
MUSC-1455	Music Theory I	3
MUSC-1455L	Music Theory Lab I	1
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Applied Music Performance I	2
	Band or Choir Ensemble	1
	Total Credits	**17**

2nd Semester		Credits
BIOS-1010	General Biology (and lab)	4
MATH-1170	Math Applications	3
MUSC-1000	Convocation	0
MUSC-1111	Keyboard Skills II	1
MUSC-1475	Music Theory I	3
MUSC-1475L	Music Theory Lab I	1
	Applied Music Performance II	2
	Band or Choir Ensemble	1
	Total Credits	**15**

3rd Semester		Credits
ENGL-1010	English Composition I	3
HIST-2110	World Civilization (4000BC-1500AC)	3
MUSC-1000	Convocation	0
MUSC-1113	Keyboard Skills III	1
MUSC-2455	Music Theory I	3
MUSC-2455L	Music Theory Lab I	1
	Applied Music Performance III	2
	Band or Choir Ensemble	1
	Music Elective	1
	Total Credits	**15**

4th Semester		Credits
ENGL-1020	English Composition II	3
MUSC-1000	Convocation	0
MUSC-1114	Keyboard Skills IV	1
MUSC-1115	Piano Proficiency	0
MUSC-2475	Music Theory I	3
MUSC-2475L	Music Theory Lab I	1
SOCI-2150	Issues of Unity & Diversity	3
SPCH-1110	Public Speaking	3
	Applied Music Performance IV	2
	Band or Choir Ensemble	1
	Total Credits	**17**

Total AFA Credits 63

Musical Theatre Performance AFA Option

Associate of Fine Arts (61 credits)
AFA.5009C

In addition to the required 31-32 general education credits, students seeking the musical theatre performance option are required to take a minimum of an additional 30 required credits.

Required Core Courses (minimum) 30 credits

Class		Credit
MUSC-1140	Applied Music: Voice I	1
MUSC-1150	Applied Music: Voice II	1
MUSC-1410	Music Fundamentals	3
MUSC-2140	Applied Music: Voice III	1
MUSC-2150	Applied Music: Voice IV	1
THEA-1300	Voice and Articulation	3
THEA-1400	Ballet I	1
THEA-1410	Jazz I	1
THEA-1420	Tap I	1
THEA-1430	Tap II	1
THEA-1860	Technical Production I	3
THEA-2010	Survey of Theatrical Design	3
THEA-2660	Acting I	3
THEA-2750	Acting II	3
	Ensemble* (taken all four semesters)	4

*Either MUSC-1240 (Varsity Vocalise) or THEA-1240 (Musical Theatre Ensemble).

Total AFA Requirements 61 credits

Recommended Plan of Study

1st Semester		Credits
MUSC-1140	Applied Music: Voice I	1
PRDV-1010	Achieving College Success	3
THEA-1010	Introduction to Theatre	3

THEA-1400	Ballet I	1
THEA-1860	Technical Production I	3
THEA-2010	Survey of Theatrical Design	3
	Ensemble	1
	Total Credits	**15**

2nd Semester		**Credits**
MATH-1170	Math Applications	3
MUSC-1150	Applied Music: Voice II	1
MUSC-1410	Music Fundamentals	3
SPCH-1110	Public Speaking	3
THEA-1300	Voice and Articulation	3
THEA-1410	Jazz I	1
	Ensemble	1
	Total Credits	**15**

3rd Semester		**Credits**
ENGL-1010	English Composition I	3
HIST-2110	World Civilization (4000BC-1500AC)	3
MUSC-2240	Applied Music: Voice III	1
PSYC-1810	Introduction to Psychology	3
THEA-1420	Tap I	1
THEA-2660	Acting I	3
	Ensemble	1
	Total Credits	**15**

4th Semester		**Credits**
ENGL-1020	English Composition II	3
BIOS-1010	General Biology (and lab)	4
MUSC-2250	Applied Music: Voice IV	1
SOCI-2150	Issues of Unity & Diversity	3
THEA-1430	Tap II	1
THEA-2750	Acting II	3
	Ensemble	1
	Total Credits	**16**
	Total AFA Credits	**61**

Theatre AFA Option

Associate of Fine Arts (62 credits)
AFA.1399

In addition to the required 31-32 general education credits, students seeking the theatre option are required to take a minimum of an additional 31 required credits.

Required Core Courses (minimum) 31 credits

Class		**Credit**
THEA-1200	Movement	3
THEA-1300	Voice and Articulation	3
THEA-1760	All College Play	4
THEA-1830	Stage Makeup	3
THEA-1860	Technical Production I	3
THEA-2010	Survey of Theatrical Design	3
THEA-2200	Script Analysis	3
THEA-2600	Technical Production II	3
THEA-2660	Acting I	3
THEA-2750	Acting II	3

Total AFA Requirements 62 credits

Recommended Plan of Study

1st Semester		**Credits**
MATH-1170	Math Applications	3
PRDV-1010	Achieving College Success	3
THEA-1010	Introduction to Theatre	3
THEA-1760	All College Play	1
THEA-1860	Technical Production I	3
THEA-2010	Survey of Theatrical Design	3
	Total Credits	**16**

2nd Semester		**Credits**
PSYC-1810	Introduction to Psychology	3
SPCH-1110	Public Speaking	3
THEA-1200	Movement	3
THEA-1300	Voice and Articulation	3
THEA-1760	All College Play	1
THEA-2600	Technical Production II	3
	Total Credits	**16**

3rd Semester		**Credits**
BIOS-1010	General Biology (and lab)	4
ENGL-1010	English Composition I	3
PHIL-1060	Intro to Ethics & Current Issues in Philosophy	3
THEA-1760	All College Play	1
THEA-1830	Stage Makeup	3
THEA-2660	Acting I	3
	Total Credits	**17**

4th Semester		**Credits**
ENGL-1020	English Composition II	3
SOCI-2150	Issues of Unity & Diversity	3
THEA-1760	All College Play	1
THEA-2200	Script Analysis	3
THEA-2750	Acting II	3
	Total Credits	**13**
	Total AFA Credits	**62**

Visual Arts AFA Option

Associate of Fine Arts (61 credits)
AFA.5007

In addition to the required 31-32 general education credits, students seeking the theatre option are required to take an additional 21 required credits and nine (9) elective credits.

Required Core Courses — 21 credits

Class		Credit
ARTS-1060	Intro to Art History & Criticism II	3
ARTS-1080	Introduction to Visual Arts	3
ARTS-1550	Drawing I	3
ARTS-1580	Drawing 2	3
ARTS-1650	Design Fundamentals	3
ARTS-2400	Painting I	3
ARTS-2600	Portfolio	3

Elective Art Courses — 9 credits

Class		Credit
ARTS-1200	Clay Animation	3
ARTS-1680	Beginning Watercolor Painting	3
ARTS-2450	Figure Drawing	3
ARTS-2460	Sculpture I	3
PHOT-1900	Black/White Photography I	3
PHOT-1920	Black/White Photography II	3

Total AFA Requirements — 62 credits

Recommended Plan of Study

1st Semester		Credits
ARTS-1080	Introduction to Visual Arts	3
ARTS-1550	Drawing I	3
MATH-1170	Math Applications	3
PRDV-1010	Achieving College Success	3
	Art elective	3
	Total Credits	**15**

2nd Semester		Credits
ARTS-1050	Intro to Art History & Criticism I	3
ARTS-1580	Drawing II	3
ARTS-2400	Painting I	3
ENGL-1020	English Composition II	3
SPCH-1110	Public Speaking	3
	Total Credits	**15**

3rd Semester		Credits
ARTS-1650	Design Fundamentals I	3
ENGL-1020	English Composition II	3
HUMS-1100	Introduction to the Humanities	3
SOCI-2150	Issues of Unity & Diversity	3
	Art elective	3
	Total Credits	**15**

4th Semester		Credits
ARTS-1060	Intro to Art History & Criticism II	3
ARTS-2600	Portfolio	3
BIOS-1010	General Biology (and lab)	4
PSYC-1810	Introduction to Psychology	3
	Art elective	3
	Total Credits	**16**
	Total AFA Credits	**61**

(Pre) Food Science

AS.0110 (67 credits)
Associate of Science
Scottsbluff

The food science emphasis area allows students to complete two years of study at WNCC and then continue their studies leading toward a bachelor of science degree in Food Science and Technology at the University of Nebraska – Lincoln (UNL).

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a scientist Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic scientific principles to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to biology and the professional responsibilities of a scientist.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of

core concepts from chemistry, mathematics, and other disciplines to life science concepts.

- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Depending on the student's choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- In addition to the general education requirements for the AS degree, 43 credits of core courses are required for the degree in pre-food science.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's degree.
- Students who plan to transfer to UNL, or another four-year college or university, should consult with their faculty advisor and transfer advisor early in their WNCC career to determine a curriculum best suited to their transfer goals.

Transfer to University of Nebraska – Lincoln

- Careful consideration should be given to the course requirements of the Applied Science program at UNL.
- UNL prefers the communication course to be SPCH-1110 (Public Speaking).
- UNL requires additional Achievement-Centered Education (ACE) electives. These can be taken through UNL as soon as a student applies for and is accepted for admission to UNL. These courses can also be taken at WNCC. The following courses are offered at WNCC that satisfy the UNL's nine ACE credit hour requirements:

Class		Credit
HIST-2100	World Civilization (4000 BC – 500 AD)	3
HIST-2110	World Civilization (1500 AD – present)	3
POLS-1600	International Relations	3

- Students who transfer to UNL are encouraged to apply for admission early in their program. ACE elective classes can be taken through UNL during the student's time at WNCC thereby lessening the credit load in the fourth semester and guaranteeing maximum credit hour transfer.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Quantitative Reasoning*	7-8
Natural Sciences*	7-8
Personal Development	3
Social Science	3

** A minimum of 15-16 credits of combined science and math credits are required for the AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements — 43 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1300	Botany (and lab)	4
BIOS-1380	General Zoology (and lab)	4
BIOS-2120	Genetics (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4
MATH-1210	Trigonometry	3
MATH-1600	Analytic Geometry & Calculus I	5
MATH-2170	Applied Statistics	3

Total AS Requirements — 67 Credits

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
ENGL-1010	English Composition I	3
MATH-1210	Trigonometry	3
PRDV-1010	Achieving College Success	3
	Total Credits	**17**
2nd Semester		**Credits**
BIOS-1300	General Botany (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
ENGL-1020	English Composition II	3
MATH-1600	Analytic Geometry and Calculus I	5
	Total Credits	**16**
3rd Semester		**Credits**
BIOS-2120	Genetics (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
MATH-2170	Statistics	3
	Humanities GE Requirement	3
	Social Science GE Requirement	3
	Total Credits	**17**
4th Semester		**Credits**
BIOS-1380	General Zoology (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4
	Oral Communication GE Require	3
	Electives	6
	Total Credits	**17**
	Total AS Credits	**67**

Foreign Language (Spanish)

AA.1609A (60 credits)
Associate of Arts
Alliance • Scottsbluff • Sidney

The foreign language program provides a two-year course of study in Spanish to meet the vocational, avocation, and academic needs of the student. Because Intermediate levels of Spanish are sometimes not offered every year, students should check with their faculty advisor. The courses of study suggested below are planned to meet the requirements for the Associate of Arts degree awarded by WNCC, as well as to meet the requirements for junior standing at four-year colleges and universities, where students may continue work toward a baccalaureate degree. The Foreign Language track applies equally to those students whose interest is more avocation and to those whose interest is vocational.

Those interested in avocational foreign language study often desire to broaden themselves through the study of foreign languages and cultures or to experience through such a course of study personal enjoyment and satisfaction. On the other hand, those who realize that the knowledge of foreign language makes them more desirable to a prospective employer are interested in foreign language for vocational purposes. Academic courses in general areas of study are also deemed important to correspond with the philosophy of WNCC. Courses are included which are in addition to the foreign language study.

Program Outcomes

- Choose topics, convey purpose, and employ research and organizational skills appropriate for specific planned communication events.
- Analyze reading for social and cultural context.
- Demonstrate knowledge and appreciation of other cultures including language, arts, and cultural values.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty advisor and transfer advisor early in their WNCC career to determine a curriculum to support their transfer goals.
- The University of Nebraska – Lincoln (B.A., B.S., or B.F.A.) and University of Wyoming (select B.A. programs) require a foreign language for graduation. The student should consult the catalog of these or other four-year colleges and universities of interest to verify these requirements.
- The following is a sample course of study. Students should work closely with their faculty advisor to develop a personal plan of study consistent with individual goals.

Program Requirements

AA General Education Core — 32 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	6
Math	4
Lab Sciences	4
Personal Development	3
Social Science	6

Note: Some general education requirements may be satisfied by courses in field endorsement areas. Please consult with an advisor for details.

Foreign Language Core — 25 credits

Class		Credits
ANTH-2130	Mexican-American & Native-American Cultures	3
ARTS-1050	Introduction to Art History and Criticism I	3
SOCI-2150	Issues of Unity & Diversity	3
SPAN-1010	Elementary Spanish I	5
SPAN-1020	Elementary Spanish II	5
SPAN-2010	Intermediate Spanish I	3
SPAN-2020	Intermediate Spanish II	3

Electives — 3 credits

Total AA Requirements — 60 credits

Recommended Plan of Study

1st Semester		Credits
ENGL-1010	English Composition I	3
MATH-1150	College Algebra (or higher)	4
PRDV-1010	Achieving College Success	3
SPAN-1010	Elementary Spanish I	5
	Total Credits	**15**

2nd Semester		Credits
ENGL-1020	English Composition II	3
SPAN-1020	Elementary Spanish II	5
	Humanities GE elective	3
	Social Science GE elective	3
	Total Credits	**14**

3rd Semester		Credits
ANTH-2130	Mexican American/Native American Cultures	3
SPAN-2010	Intermediate Spanish I	3
	Humanities GE elective	3
	Lab Science GE elective	4
	Oral Communication GE elective	3
	Total Credits	**16**

4th Semester		Credits
ARTS-1050	Introduction to Art History and Criticism I	3
SPAN-2020	Intermediate Spanish II	3
SOCI-2150	Issues of Unity and Diversity	3
	Social Science GE elective	3
	Elective	3
	Total Credits	**15**

Total AA Credits — 60

Forestry/Wildlife Management

AS.0305 (61 credits)
Associate of Science
Scottsbluff

This emphasis area provides the student with comprehensive coverage of the natural world. This course of study is designed to meet the needs of those wishing to gain technical knowledge for entry into other related areas within the field of biology, such as forestry and wildlife management, as well as those seeking a general acquaintance with the field.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a biologist. Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics and evolution.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic biological principles to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to biology and the professional responsibilities of a biologist.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to life science concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.

- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.
- In addition to the general education requirements for the AS degree, 27 credits of core courses and 16 credits of electives are required for the degree in forestry/wildlife management.
- Depending on the student's choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements — 23 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1100	Environmental Science (with lab)*	4
BIOS-1380	General Zoology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4
MATH-1210	Trigonometry	3

**Some students may find it more practical to substitute PHYS-1300 for BIOS-1100 and continue with PHYS-1350.*

Recommended Electives or Courses Required for Transfer: — 15 credits

Class		Credits
BIOS-1300	General Botany (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
PRVD-1010	Achieving College Success	3
	Total Credits	**18**

2nd Semester		Credits
BIOS-1380	General Zoology (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
ENGL-1020	English Composition II	3
MATH-1210	Trigonometry	3
	Total Credits	**14**

3rd Semester		Credits
BIOS-1100	Environmental Science	4
BIOS-2120	Genetics (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
	Oral Communication GE elective	3
	Total Credits	**15**

4th Semester		Credits
BIOS-1300	General Botany (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4
	Humanities GE Elective	3
	Social Science GE Elective	3
	Total Credits	**14**
	Total AS Credits	**61**

General Studies (Language and Fine Arts)

AA.2401 (60 credits)
Associate of Arts
Alliance • Scottsbluff • Sidney

A general studies degree is designed to provide a well-rounded education for students who want to follow a general course of study in the liberal arts. It may be useful to the student who wishes to attend only two years of college or to the student who plans to transfer to another institution but still needs the broad background of coursework in the freshman and sophomore years

Program Outcomes

- Write unified and well-supported essays with coherent paragraphs and effective thesis statements.
- Incorporate outside/secondary sources with proper citation in both written and verbal communications.
- Choose topics, convey purpose, and employ research and organizational skills appropriate for specific planned communication events.
- Analyze readings for social and cultural context.
- Demonstrate knowledge and appreciation of other cultures including language, arts, and cultural values.

Notes:

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.
- Students who desire a particular academic focus should talk with their advisor to select elective courses relevant to the student's interests and/or intended future profession.

Program Requirements

AA General Education Core 31-32 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	6
Math	3-4
Lab Sciences	4
Personal Development	3
Social Science	6

Note: Some general education requirements may be satisfied by courses in field endorsement areas. Please consult with an advisor for details.

General Studies Core 14 credits

Class		Credits
PHIL-1060	Intro to Ethics & Current Issues in Philosophy	3
	or	
PHIL-1150	Critical and Creative Thinking	
	or	
SOCI-2150	Issues of Unity and Diversity	
SPAN-1010	Elementary Spanish I	5
	Two additional humanities courses	6

Electives 14 credits

Total AA Requirements 60 credits

General Studies (Math and Science)

AS.2401 (61 credits)
Associate of Science
Alliance • Scottsbluff • Sidney

This program is designed for students wishing to follow a program of study with an emphasis in the sciences. Its purpose is to provide a well-rounded education for those students interested in a math or science-related field including engineering and computer science.

Objectives

- Permit students to explore various courses of mathematics and sciences that may lead to a major in a specialized emphasis area.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.
- Students following the pre-engineering option should choose from the following technical electives:

Class		Credit
ENGR-1010	Introduction to Engineering Design	3
ENGR-1020	Programming & Problem Solving	3
ENGR-1070	Graphics for Engineers	3

ECEN-2110	Introduction to Circuits & Electronics	3
ENGR-2020	Statics	3

- Students should consult with their faculty advisor before selecting science, math, and elective courses.
- Students following the pre-computer science option should take technical elective INFO-1355 (Computer Science I) and should consult with their faculty advisor before selecting science, math, and elective courses.
- In addition to the general education requirements for the AS degree, a minimum of 15-16 credits of core courses and 26 credits of technical electives are required for the general studies in math and science degree.
- Depending on the student's choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Requirements — 15-16 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1100	Environmental Science (with lab)	4
BIOS-1380	General Zoology (and lab)	4
BIOS-1160	Intro to Human Anatomy & Physiology	4
BIOS-1300	Botany (and lab)	4
BIOS-1380	Zoology (and lab)	4
BIOS-2250	Human Anatomy & Physiology I (and lab)	4
BIOS-2260	Human Anatomy & Physiology II (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-1050	Introductory Chemistry (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4
GEOL-1010	Physical Geology (and lab)	4
MATH-1150	College Algebra	4
MATH-1210	Trigonometry	3
MATH-1600	Analytic Geometry & Calculus I	5
MATH-2150	Calculus II	5
MATH-2170	Applied Statistics	3
MATH-2200	Calculus III	5
MATH-2210	Differential Equations	3
PHYS-1200	Earth and Space Science (and lab)	4
PHYS-1070	Astronomy (and lab)	4
PHYS-1100	Physical Science (and lab)	4
PHYS-1300	Physics I (and lab & recitation)	5
PHYS-1350	Physics II (and lab & recitation)	5
PHYS-2400	Physics I with Calculus (and lab & recitation)	5
PHYS-2450	Physics II with Calculus (and lab & (recitation)	5

Recommended Tech Electives or Courses Required for Transfer — 26 credits

These courses do not meet the required minimum math/science requirement for the AS degree.

Technical electives may be selected from the list of core courses in addition these courses.

Class		Credits
BIOS-1000	Basic Nutrition	3
BIOS-2050	Nutrition and Diet Therapy	3
ENGR-1010	Intro to Engineering Design	3
ENGR-1020	Programming & Problem Solving	3
ENGR-1070	Graphics for Engineers	3
ECEN-2110	Intro to Circuits & Electronics	3
ENGR-2020	Statics	3
INFO-1200	Introduction to Computer Science	3
INFO-1355	Computer Science I	3

INFO-2330	Data Structures	3
PHYS-1225	Science of Sports	4

Total AS Requirements 61 credits

Recommended Plan of Study

1st Semester		**Credits**
ENGL-1010	English Composition I	3
PRVD-1010	Achieving College Success	3
	Math GE/Core elective	4
	Math or Science Core elective	4
	Technical elective	3
	Total Credits	**17**
2nd Semester		**Credits**
ENGL-1020	English Composition II	3
	Lab Science GE/Core elective	4
	Technical electives	8
	Total Credits	**15**
3rd Semester		**Credits**
	Humanities GE elective	3
	Oral Communication GE elective	3
	Math or Science Core elective	4
	Technical elective	4
	Total Credits	**14**
4th Semester		**Credits**
	Social Science GE elective	3
	Technical electives	12
	Total Credits	**15**
	Total AS Credits	**61**

General Studies (Social Sciences)

AA.4501 (60-61 Credits)
Associate of Arts
Alliance • Scottsbluff • Sidney

The Division of Social Sciences at WNCC offers students the opportunity to earn an Associate of Arts (AA) in Social Science, a multidisciplinary program with an intellectually rich and diverse combination of courses. The AA in Social Sciences permits students to select courses from their choice of four (4) of the program's six (6) areas of study: anthropology, economics, geography, history, political science, or sociology. Ultimately, this program is specifically designed to introduce the social sciences that will successfully prepare students for a variety of interesting and meaningful professions.

Program Outcomes

- Identify the multidisciplinary knowledge requisite to understanding personal and social responsibility in modern, complex, and interdependent societies.
- Assess the knowledge required to understand and value human cultures and diversity.
- Synthesize, integrate, and apply knowledge in the areas of local and global civic awareness, intercultural competence, and ethical reasoning and action.
- Develop and demonstrate applied skills across students' chosen areas of study, consistent with students' plans to transfer to a four-year college or university and/or their career path.
- Develop and utilize a set of intellectual and life skills in the areas of communication, critical thinking, problem solving, information literacy, humanities and/or fine arts awareness, cultural awareness, personal development, and life-long learning.

Notes:

- Students who plan to transfer to a four-year college or university should consult with their WNCC faculty advisor, the WNCC transfer advisor, and/or transfer advisor at their intended transfer institution early in their enrollment to determine the most appropriate curriculum for their proposed program of study at transfer institution.

Requirements

AA General Education Core 31-32 credits

Class	**Credits**
Written Communication	6
Oral Communication	3
Humanities (two courses from different alpha)	6
Math	3-4
Lab Sciences	4
Personal Development	3
Social Sciences (two courses from different alpha)	6

Note: Some general education requirements may be satisfied by courses in field endorsement areas. Please consult with an advisor for details.

Required Social Science Core (selected from below) 18 credits

Select a total of six (6) courses or 18 credit credits from any four (4) of the following six (6) social science areas.

The choice of social science courses and disciplines is at the student's discretion, in consultation with her or his academic advisor.

Class		Credit
Anthropology		
ANTH-2130	Mexican-American and Native/American Cultures	3
Economics		
ECON-1230	General Economics	3
ECON-2120	Principles of Microeconomics	3
ECON-2110	Principles of Macroeconomics	3
Geography		
GEOG-1120	Physical Geography	3
GEOG-2260	Cultural Geography	3
History		
HIST-2010	American History I	3
HIST-2020	American History II	3
HIST-2050	Special Topics in History	3
HIST-2060	History of Nebraska	3
HIST-2100	World Civilizations (4000 B.C. – 1500 A.D.)	3
HIST-2110	World Civilizations (1500 A.D. – Present)	3
HIST-2580	History of the American West	3
Political Science		
POLS-1000	American Government	3
POLS-1600	International Relations	3
Sociology		
SOCI-1010	Introduction to Sociology	3
SOCI-2050	Special Topics in Sociology	3
SOCI-2250	Marriage and Family	3
SOCI-2150	Issues of Unity and Diversity	3

Recommended Elective Courses (selected from below) 11 credits

Class		Credit
	Any ANTH course	3
	Any ECON course	3
	Any GEOG course	3
	Any HIST course	3
	Any PHIL course	3
	Any POLS course	3
	Any PSYC course	3
	Any SOCI course	3
	Leadership Development course	3
	Case Studies in Leadership course	3
CRIM-1010	Introduction to Criminal Justice	3
CRIM-1030	Courts & the Judicial Process	3
CRIM-2150	Contemporary Issues in Criminal Justice	3
INFO-1100	Microcomputer Applications	3

Total AA Requirements 60-61 credits

Recommended Plan of Study

1st Semester		Credits
ENGL-1010	English Composition I	3
MATH-2170	Applied Statistics	3
PRDV-1010	Achieving College Success	3
	Course from core areas of study	3
	Elective	3
	Total Credits	**15**
2nd Semester		**Credits**
	Courses from core areas of study	6
	Humanities GE elective	3
	Oral Communication GE elective	3
	Social Sciences GE elective	3
	Total Credits	**15**
3rd Semester		**Credits**
ENGL-1020	English Composition II	3
	Courses from core areas of study	6
	Lab Science GE elective	4
	Elective	3
	Total Credits	**16**
4th Semester	**Credits**	
	Course from core area of study	3
	Humanities GE elective	3
	Social Science GE elective	3
	Electives	6
	Total Credits	**15**
	Total AA Credits	**61**

Health Information Technology

Associate of Applied Science
Diploma (Coding Technician)
Alliance · Scottsbluff · Sidne

The Health Information Technology (HIT) program is designed to prepare students to enter the health information field with either a diploma in coding or an Associate of Applied Science degree. Students receiving a

diploma are prepared to work in entry-level positions as a coding technician in a variety of healthcare settings. Those receiving an Associate of Applied Science degree are able to work in a greater variety of entry-level positions given greater clinical and didactic preparation.

Program Outcomes

- Demonstrate entry-level knowledge and proficiency of Health Care Data Content, Structure, and Standards, including classification systems; health record content and documentation; secondary data sources; and data governance and management.
- Demonstrate entry-level knowledge and proficiency of Information Protection, Access Disclosure, Archival Privacy, and Security, including health law; data privacy, confidentiality, and security; and release of information.
- Demonstrate entry-level knowledge and proficiency of Health Informatics, Analytics, and Data Use, including health information technologies and management strategic planning; analytics and decision support; statistics and research methods; consumer informatics; and health information integrity, data quality, and information exchange.
- Demonstrate entry-level knowledge and proficiency of Revenue Management, including revenue cycle and reimbursement.
- Demonstrate entry-level knowledge and proficiency of Compliance, including regulatory, coding, fraud surveillance, and clinical documentation improvement.
- Demonstrate entry-level knowledge and proficiency of Leadership, including leadership roles of project and change management; vendor/contract and enterprise information management; work design; process improvement; human resources management, training, and development; strategic and organizational management; financial management; and ethics.

Associate of Applied Science (AAS)

AAS.5107A (66-67 credits)

The AAS in Health Information Technology at WNCC is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Students graduating from the program are eligible to take the national qualifying examination for certification as a Registered Health Information Technician (RHIT).

AHIMA's domains and sub-domains for Registered Health Information Technician (RHIT) can be found at **ahima.org/certification/RHIT.**

WNCC has an articulation agreement with Mid-Plains Community College (MPCC) to offer the HIMS courses to MPCC students.

Notes:

- It is strongly recommended that students who wish to enroll in the HIT program consult with the program director prior to enrolling in classes for details of specific program requirements.
- Students must possess a grade point average (GPA) of 2.0 (C) or above on all previous college coursework and a 2.0 (C) must be earned on all HIT curriculum courses.
- An official copy of all applicants' ACCUPLACER® or ACT assessment test scores must be sent to the Division of Health Occupations in Scottsbluff. A minimum level of basic skill knowledge is required prior to admission to the HIT program. In accordance with WNCC policy, students may be waived from ACCUPLACER® testing by verification of prior equivalent coursework. Students who do not meet minimum ACCUPLACER® score requirements must enroll in developmental coursework prior to starting the HIT Program.
- All courses are available online.
- Health Information Technology (HIMS) courses may only be taken two (2) times. A student may not re-enroll in the program after failing a course the second time. A grade of C-, WF, D or F is considered a failing grade for the Health Information Technology Program.

Program Requirements

AAS General Education Core — 16-17 credits

Class	Credits
Written Communication*	3
Oral Communication	3
Quantitative Reasoning*	3-4
Social or Lab Science (lab science required)	4
Personal Development	3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

HIT Core Courses — 50 credits

Total AAS Credits — 66-67 credits

Recommended Plan of Study

Prerequisites – General Education Core		Credits
BIOS-1160	Intro to Human Anatomy & Physiology	4
	or	
LPNR-1110	Body Structure and Function	
ENGL-1010	English Composition I	3
HLTH-1060	Medical Terminology *	3
MATH-1010	Intermediate Algebra **	4
PRDV-1010	Achieving College Success	3
SPCH-1110	Public Speaking	3
	or	
SPCH-1200	Speech Communications	
	Total Credits	**20**
1st Semester (fall)		
HIMS-1250	Introduction to HIMS	3
HIMS-1410	Disease Process	4
HIMS-2150	Coding-CPT	4
HIMS-2200	information Systems in Health Care	2
INFO-1094	Intro to Database (Access)	1
	Total Credits	**14**
2nd Semester (spring)		
HIMS-1350	Healthcare Delivery Systems	2
HIMS-1500	Legal & Ethical Aspects of HIMS	3
HIMS-2100	Coding ICD	4
HIMS-2180	Reimbursement Methodologies	4
HIMS-2250	Healthcare Statistics	2
HIMS-2330	HIMS Applications I	2
HIMS-2730	Professional Practice Experience I	2
	Total Credits	**19**
3rd Semester (fall)		
HIMS-2340	HIMS Applications II	2
HIMS-2390	Coding & Reimbursement Apps	3
HIMS-2630	Quality & Performance Improvement	3
HIMS-2760	Professional Practice Experience II	2
PSYC-1810	Introduction to Psychology	3
	Total Credits	**13**
	Total AAS Credits	**66**

**Please consult with the HIT Program Director at 308.635.6064 for information about experiential learning credit.*

***Students should be Intermediate Algebra ready as evidenced by ACCUPLACER® scores. If not, a math course (MATH-1010 or BSTC-1500) will be required. Please consult with the HIT Program Director at 308.635.6064 for more information.*

Diploma (Coding Technician)

DI.5107B (46-47 credits)

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This program prepares the student to enter the health information field with a diploma as a coding technician. Students receiving a diploma are prepared to work in entry-level positions as a coding technician in a variety of health care settings. Students graduating from the program are eligible to take the CCA or CCS certification, if they meet the other qualifications (please see the program director).

Western Nebraska Community College has an articulation agreement with Mid-Plains Community College to offer the HIMS courses to MPCC students.

AHIMA's Coding Specialty Track HIM Curriculum Competencies can be found at **ahima.org/certification/CCA.**

Notes

- Students wishing to enroll in the Coding Technician program are strongly recommended to consult with the program director prior to enrollment for details of specific program requirements.
- Students following the diploma option must demonstrate competency in writing and mathematics by ACCUPLACER® assessment or by passing the appropriate writing and mathematics courses (ENGL-1000 and BSTC-1500, MATH-1010, or MATH-1020) This is in addition to the required curriculum for the diploma option.
- A grade point average (GPA) of 2.0 (C) or above on all previous WNCC coursework is required. A 2.0 (C) must be earned on all Coding Technician curriculum courses.
- An official copy of all applicants' ACCUPLACER® or ACT assessment test scores must be sent to the Division of Health Occupations in Scottsbluff. A minimum level of basic skill knowledge is required prior to admission to the Coding Technician program. In accordance with College policy, students may be waived from ACCUPLACER® testing by verification of prior equivalent coursework. Students who do not meet minimum ACCUPLACER® score requirements must enroll in development coursework prior to starting the Coding Technician program.
- All courses are available online.
- Health Information Technology (HIMS) courses may only be taken two (2) times. A student may not re-

enroll in the program after failing a course the second time. A grade of C-, D, or F is considered a failing grade for the Coding Technician program.

Program Requirements

Diploma General Educ. Core 13-14 credits

Class	Credits
Written Communication*	3
Quantitative Reasoning*	3-4
Personal Development	3
Lab Science	4

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

HIT Core Courses 33 credits

Total Diploma Credits 46-47 credits

Recommended Plan of Study

1st Semester (fall)		Credits
BIOS-1160	Intro to Human Anatomy & Physiology	4
	or	
LPNR-1110	Body Structure and Function	
HIMS-1250	Introduction to HIMS	3
HIMS-1410	Disease Process	4
HIMS-2150	Coding-CPT	4
	Total Credits	**15**

2nd Semester (spring)		Credits
ENGL-1010	English Composition I	3
HIMS-1500	Legal & Ethical Aspects of HIMS	3
HIMS-2100	Coding ICD	4
HIMS-2180	Reimbursement Methodologies	4
HLTH-1060	Medical Terminology*	3
INFO-1094	Intro to Database (Access)	1
	Total Credits	**18**

3rd Semester (fall)		Credits
HIMS-2200	Information Systems in Healthcare	2
HIMS-2390	Coding & Reimbursement Apps	3
HIMS-2360	Coding & Reimbursement PPE	2
PRDV-1010	Achieving College Success	3
	Quantitative Reasoning GE elective	3-4
	Total Credits	**13-14**
	Total Diploma Credits	**46-47**

**Please consult with the HIT Program Director at 308.635.6064 for information about experiential learning credit.*

Human Services

Associate of Arts
Associate of Applied Science
Certificate
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The Human Services program provides students with general skills in helping others in need. Graduates from this program are prepared to gain entry-level positions in a variety of human services setting or pursue licensure as an alcohol and drug counselor. Graduates may also continue their education at a four-year college or university.

Program Outcomes

- Be able to understand how past events influenced the field of human services and how historical and current legislation continues to impact the field.
- Have an understanding of the structure and dynamics of the various human systems including individuals, small groups, organizations, communities, and society.
- Be able to identify the range and characteristics of the many different human services delivery systems and analyze the appropriate delivery systems for the many different populations and needs addressed by human services.
- Be able to effectively obtain, organize, analyze, evaluate, and disseminate information.
- Be able to analyze needs, develop goals, implement plans, and evaluate the outcome and impact on the client or client group.
- Will learn about and be able to provide direct services including case management, intake interviewing, individual counseling, group counseling, and make referrals or pursue consultation when appropriate.
- Will have an awareness of the values and ethics of the human services profession and integrate these values and ethics into coursework.
- Will have an awareness of his/her own values, cultural bias, philosophies, and personality and how these personal attributes impact others in their role as a human services worker.

Notes

- Recommended plans of study are presented below. However, students should remember that their faculty

advisor will help develop a personal plan of student consistent with individual academic and career goals.

Associate of Arts

AA.5115A (61-62 credits)

This degree consists of program-specific coursework designed to enhance practical helping skills and provide electives of interest to the student in addition to the general education requirements necessary to transfer to a four-year college or university. Students receive a solid foundation to continue their education and pursue advanced training as human services professionals.

Program Requirements

AA General Education Core — 31-32 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	6
Quantitative Reasoning	3-4
Lab Sciences	4
Personal Development	3
Social Science	6

Note: Some general education requirements may be satisfied by courses in field endorsement areas. Please consult with an advisor for details.

Required Human Services Core — 18 credits

Class		Credits
HUSR-1620	Intro to Human Services Work	3
HUSR-1800	Case Assessment, Planning, and Management	3
HUSR-2000	Intro to Counseling Skills: Theory and Techniques	3
HUSR-2300	Group Counseling	3
HUSR-2380	Professional Ethics and Issues	3
HUSR-2450	Multicultural Counseling	3

Recommended Electives — 12 credits

Select four (4) from the list below:

Class		Credits
CRIM-1010	Introduction to Criminal Justice	3
CRIM-1020	Introduction to Corrections	3
CRIM-2110	Juvenile Justice	3
CRIM-2250	Community-Based Corrections	3
ECED-1060	Observation, Assessment, and Guidance	3
ECED-1110	Infant/Toddler Development	3
ECED-1120	Preschool Child Development	3
ECED-1230	School Age Child Development	3
ECED-2050	Children with Exceptionalities	3
EDUC-1110	Introduction to Professional Education	3
EDUC-2050	Educational Psychology	3
HUSR-2530	Clinical Treatment Issues	3
HUSR-2800	Human Service Worker Practicum	3
PSYC-2020	Drugs and Behavior	3
PSYC-2090	Abnormal Psychology	3
PSYC-2100	Child Growth and Development	3
PSYC-2140	Social Psychology	3
PSYC-2150	Lifespan Growth & Development	3
PSYC-2650	Research Methods in Psychology	3
SOCI-1010	Introduction to Sociology	3
SOCI-2050	Special Topics in Sociology	3
SOCI 2250	Marriage and Family	3

Total AA Requirements — 61-62 credits

Recommended Plan of Study

1st Semester		Credits
ENGL-1010	English Composition I	3
HUSR-1620	Introduction to Human Services Work	3
HUSR-1800	Case Assessment, Planning, & Management	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Total Credits	**15**

2nd Semester		Credits
BIOS-1010	General Biology (and lab)	4
ENGL-1020	English Composition II	3
HUSR-2380	Professional Ethics and Issues	3
	Humanities GE elective	3
	HUSR Program elective	3
	Total Credits	**16**

3rd Semester		Credits
HUSR-2000	Introduction to Counseling Skills	3
	Humanities GE elective	3
	Math GE elective	3-4
	Oral Communication GE elective	3
	HUSR Program Elective (PSYC-2090 recommended)	3
	Total Credits	**15-16**

4th Semester		Credits
HUSR-2300	Group Counseling	3

HUSR-2450	Multicultural Counseling	3
	Social Science GE elective (ANTH-2130 recommended)	3
	HUSR Program elective (PSYC-2150 recommended)	3
	HUSR Program elective	3
	Total Credits	**15**
	Total AA Credits	**61-62**

Associate of Applied Science

AAS.5115A (62-63 credits)

The associate of applied science (AAS) degree prepares students for a career in the human services field as either a generalist or an alcohol and drug counselor. Within the core requirements, students learn practical skills helpful in human services. There are also opportunities for students to explore areas of interest, including psychology, sociology, criminal justice, early childhood education, education, and social work.

Requirements

AAS General Education Core 15-17 credits

Class	Credits
Written Communication*	3
Oral Communication	3
Quantitative Reasoning*	3-4
Social or Lab Science	3-4
Personal Development	3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Required Human Services Core 31 credits

Class		Credits
HUSR-1620	Intro to Human Services Work	3
HUSR-1800	Case Assessment, Planning, and Management	3
HUSR-2000	Intro to Counseling Skills: Theory and Techniques	3
HUSR-2300	Group Counseling	3
HUSR-2380	Professional Ethics and Issues	3
HUSR-2450	Multicultural Counseling	3
HUSR-2800	Human Services Worker Practicum	4
HUSR-2500	Human Services Worker Internship	3
PSYC-2090	Abnormal Psychology	3
PSYC-2150	Life Span: Human Growth & Development	3

Recommended Electives 15 credits

Select from the list below:

Class		Credits
CRIM-1010	Introduction to Criminal Justice	3
CRIM-1020	Introduction to Corrections	3
CRIM-2110	Juvenile Justice	3
CRIM-2250	Community-Based Corrections	3
ECED-1060	Observation, Assessment, and Guidance	3
ECED-1110	Infant/Toddler Development	3
ECED-1120	Preschool Child Development	3
ECED-1230	School Age Child Development	3
ECED-2050	Children with Exceptionalities	3
EDUC-1110	Introduction to Professional Education	3
EDUC-2050	Educational Psychology	3
HUSR-2530	Clinical Treatment Issues	3
PSYC-2020	Drugs and Behavior	3
PSYC-2100	Child Growth and Development	3
PSYC-2140	Social Psychology	3
PSYC-2650	Research Methods in Psychology	3
SOCI-1010	Introduction to Sociology	3
SOCI-2050	Special Topics in Sociology	3
SOCI 2250	Marriage and Family	3

Total AAS Requirements 62-63 credits

Recommended Plan of Study

1st Semester		Credits
ENGL-1010	English Composition I	3
HUSR-1620	Introduction to Human Services Work	3
HUSR-1800	Case Assessment, Planning & Management	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	Total Credits	**15**

2nd Semester		Credits
HUSR-2450	Multicultural Counseling	3
PSYC-2090	Abnormal Psychology	3
	HUSR Program Elective (PSYC-2020 recommended)	3
	Math GE elective	3-4
	Elective	3
	Total Credits	**15-16**

3rd Semester		Credits
HUSR-2000	Intro to Counseling Skills	3
HUSR-2800	Human Services Worker Practicum	4
PSYC-2150	Life Span: Growth & Development	3
	HUSR Program Elective (HUSR-2530 recommended)	3
	Oral Communication GE elective	3
	Total Credits	**16**

4th Semester		Credits
HUSR-2300	Group Counseling	3
HUSR-2380	Professional Ethics and Issues	3
HUSR-2500	Human Service Worker Internship	3
	HUSR-Program Elective	3
	Elective	3
	Total Credits	**15**
	Total AAS Credits	**61-63**

Certificate

C2.5115A (24 credits)
C2.5115B (24 credits)

A 27-30 hour certificate in Human Services is available for students seeking certification in drug and alcohol counseling. For more information about statewide certification requirements, please contact the lead faculty for Human Services at 308.635.6783.

Requirements

Prerequisite Course **3 credits**

Class		Credits
PSYC-1810	Introduction to Psychology	3

Required Human Services Core **24 credits**

Class		Credits
HUSR-1800	Case Assessment, Planning & Management	3
HUSR-2300	Group Counseling	3
HUSR-2380	Professional Ethics	3
HUSR-2450	Multicultural Counseling	3
HUSR-2530	Clinical Treatment Issues	3
PSYC-2010	Drugs and Behavior	3
PSYC-2030	Introduction to Counseling Skills	3
PSYC-2150	Life Span Growth & Development	3

Elective (strongly recommended) **3 credits**

Class		Credits
PSYC-2090	Abnormal Psychology	3

Total Certificate Requirements **27-30 credits**

Recommended Plan of Study

Prerequisite Course **3 credits**

PSYC-1810	Introduction to Psychology	3

1st Semester		Credits
HUSR-1800	Case Assessment, Planning & Management	3
HUSR-2530	Clinical Treatment Issues	3
PSYC-2030	Introduction to Counseling Skills	3
PSYC-2150	Life Span Growth & Development	3
	Total Credits	**15**

2nd Semester		Credits
HUSR-2300	Group Counseling	3
HUSR-2380	Professional Ethics	3
HUSR-2450	Multicultural Counseling	3
PSYC-2010	Drugs and Behavior	3
	Total Credits	**12**
	Total Certificate Credits	**27**
PSYC-2090	Abnormal Psychology (optional)	3
	Total Certificate Credits (with optional course)	**30**

Information Technology

Associate of Arts
Alliance • Scottsbluff • Sidney

This program provides students with a sound basis for further study in information technology, typically leading to a baccalaureate degree in information technology, cybersecurity, information systems, or a related field. This program acquaints students with the principles and practices of operating systems, programming languages, database, network design, network and server administration, and security. These principles prepare students with practical knowledge to apply to the remainder of a baccalaureate degree program.

Program Outcomes

- Demonstrate the ability to install, configure, and troubleshoot operating systems and hardware. Promote and help students develop lifelong learning skills needed for professional and personal growth.
- Demonstrate the ability to design, create, and manage a database.
- Demonstrate the ability to design, write, and debug software programs.
- Demonstrate the ability to install, configure, and troubleshoot a network.

- Apply skills and abilities identified as WNCCs five major general education goals.
- Demonstrate basic proficiency in office productivity applications.

Notes

- All of these programs are also available online.
- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.

Program Requirements

AA General Education Core — 31-32 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities (two courses from different alpha)	6
Math	3-4
Lab Sciences	4
Personal Development	3
Social Sciences (two courses from different alpha)	6

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Information Technology Core — 25 credits

Class		Credits
INFO-1040	Database (Access)	3
INFO-1097	Electronic Communications (Outlook)	1
INFO-1100	Microcomputer Applications	3
	or	
INFO-2000	Advanced Microcomputer Apps	
INFO-1241	IT Technical Support	3
INFO-1242	IT Hardware Support	3
INFO-1400	Networking Essentials	3
INFO-2426	Linux	3
INFO-2450	Windows Server	3
INFO-2600	CyberSecurity Essentials	3

Core Requirements for Specified Option (see below) — 6 credits

Total AA Requirements — 62-63 credits

Information Technology Option (AA)

AA.1199A (63 credits)

In addition to the required 31-32 general education credits and the 25 core IT credits, students pursuing the information technology option are required to take the following six (6) credits:

Class		Credit
INFO-1360	Visual C#	3
	or	
INFO-1510	Introduction to Robotics	
INFO-2040	SQL Database Design and Management	3
	or	
INFO-2275	Project Management	

CyberSecurity Option (AA)

AA.1199C (63 credits)

In addition to the required 31-32 general education credits and the 25 core IT credits, students pursuing the cybersecutity option are required to take the following six (6) credits:

Class		Credit
INFO-1360	Visual C#	3
INFO-2275	Project Management	3

Recommended Plan of Study

1st Semester (fall)		Credits
ENGL-1010	English Composition I	3
INFO-1241	IT Technical Support	3
INFO-1242	IT Hardware Support	3
MATH-1150	College Algebra (or higher)	4
PRDV-1010	Achieving College Success	3
	Total Credits	**16**

2nd Semester (spring)		Credits
ENGL-1020	English Composition II	3
INFO-1097	Electronic Communications (Outlook)	1
INFO-1100	Microcomputer Applications	3
	or	
INFO-2000	Advanced Microcomputer Apps	
INFO-1400	Networking Essentials	3
INFO-1360	Visual C#	3
	Social Science GE elective	3
	Total Credits	**16**

3rd Semester (fall)		Credits
INFO-1040	Database (Access)	3
INFO-2450	Windows Server	3

INFO-2600	CyberSecurity Essentials	3
	Humanities GE elective	3
	Oral Communication GE elective	3
	Total Credits	**15**
4th Semester (spring)		**Credit**
INFO-2275	Project Management	3
INFO-2426	Linux	3
	Humanities GE requirement	3
	Lab Science GE requirement	4
	Social Science GE requirement	3
	Total Credits	**16**
	Total AA Credits	**63**

Mathematics

AS.2701A (63 credits)
Associate of Science
Alliance • Scottsbluff • Sidney

This emphasis area prepares the student for transfer to a four-year college or university to major in mathematics. This area provides the foundation upon which the disciplines of physics and engineering are built.

Program Outcomes

- Provide a program of study that will enable transfer students to successfully integrate into Bachelor of Science degree programs in mathematics or engineering.
- Develop critical thinking and problem solving skills to facilitate the translation of scientific problems into mathematical formulations using appropriate models and assumptions.
- Master the mathematical methods of arithmetic, algebra, trigonometry, and multi-variable calculus and apply these methods to the solutions of mathematical formulations and to the analysis of scientific data.
- Utilize current technology and software as tools to assist in the exploration and solution of mathematical problems and in the analysis of scientific data.
- Gain knowledge of contemporary issues and understand the role and impact of science and technology in a global, economic, environmental, and societal context.
- Communicate concepts, analysis, and mathematical solutions using appropriate written, oral, and graphical methods.
- Apply various mathematical techniques in order to assist students of engineering to acquire a more thorough knowledge and solve engineering problems.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisor early in their WNCC career to determine a curriculum best suited to their transfer goals.
- In addition to the general education requirements for the AS degree, 25 credits of core courses and 17 credits of technical electives are required for the degree.
- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should be aware that the courses included in the core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements — 25 credits

Class		Credits
ENGR-1020	Programming & Problem Solving	3
MATH-1600	Analytic Geometry & Calculus I	5
MATH-2150	Calculus II	5
MATH-2170	Applied Statistics	3
MATH-2200	Calculus III	5
	Science elective	4

Technical Electives — 17 credits

Technical electives should come from the following list or be approved by the chair of the Division of Math and Science.

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2250	Human Anatomy & Physiology I (and lab)	4
BIOS-2260	Human Anatomy & Physiology II (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4
ECEN-2110	Introduction to Circuits and Electronics	3
ENGR-2020	Statics	3
MATH-2210*	Applied Differential Equations	3
PHYS-1070	Astronomy	4
PHYS-2400	Physics I with Calculus (and lab)	5
PHYS-2450	Physics II with Calculus (and lab)	5

*Recommended

Total AS Credits **63 credits**

Recommended Plan of Study

1st Semester		Credits
ENGL-1010	English Composition I	3
MATH-1600	Analytic Geometry and Calculus I	5
PRDV-1010	Achieving College Success	3
	Lab Science GE elective	4
	Social Science GE elective	3
	Total Credits	**18**

2nd Semester		Credits
ENGL-1020	English Composition II	3
ENGR-1020	Program and Problem Solving	3
MATH-2150	Calculus II	5
MATH-2170	Applied Statistics	3
	Total Credits	**14**

3rd Semester		Credits
MATH-2200	Calculus III	5
	Technical elective	4
	Humanities GE elective	3
	Oral Communication GE elective	3
	Total Credits	**15**

4th Semester		Credits
	Technical electives	13
	Elective	3
	Total Credits	**16**
	Total AS Credits	**63**

Medical Laboratory Technician

Associate of Applied Science
Certificate (Phlebotomy Technician)
Scottsbluff

The Medical Laboratory Technician (MLT) program prepares students to function as medical laboratory technicians who perform a wide a wide range of routine and complex clinical laboratory procedures associated with blood and body-fluid analysis. These procedures play an important role in the detection, diagnosis, and treatment of many diseases and in the promotion of health. A medical laboratory technician assesses the reliability/accuracy of the testing, maintains and operates diagnostic equipment, evaluates patient results, prepares analytical reagents and controls, troubleshoots problems with specimens/analyzers, and performs other duties.

The medical laboratory technician curriculum includes a combination of general education courses, online lectures, face-to-face student laboratory sessions, and clinical experiences in a hospital or clinic. The courses must be completed within the time-frame shown in the recommended plan of study, and students in this program are required to be enrolled full-time. Upon successful completion of the prescribed program, the student is eligible to take an examination for national professional certification and will be prepared to work in a variety of clinical settings that include hospital laboratories, physicians' offices, and clinics and blood donor centers.

The program is currently seeking accreditation by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N. River Rd. Suite 720, Rosemont, IL 60018-5119; 773.714.8880.

Program Outcomes

- Provide a curriculum that will promote development of skilled medical laboratory technicians.
- Prepare graduates with entry-level competencies to meet the needs of the community and the medical profession.
- Provide students with adequate knowledge and background experience to qualify for national certification examinations appropriate to their level of training.
- Promote development of professional conscience.

- Provide a curriculum that facilitates matriculation to a four-year degree program.
- Maintain standards consistent with the National Accrediting Agency for Clinical Laboratory Science.

Program Admission Requirements

The MLT program is a selective admissions program, requiring an application beyond one required for admission to WNCC. Interested students should contact the program director located in the Harms Center for more information and to obtain a copy of the application form.

Prior to admission to the program, the student must meet the following criteria:

- Be at least 17 years of age
- Possess a high school graduate or have earned a GED certificate.
- Have completed and met the requirements for admissions to WNCC.
- Have taken the ACCUPLACER basic skills assessment unless exempt.
- Submit the completed the MLT Program Application with copies of ACCUPLACER scores and high school and/or college transcripts or GED certificate.
- Upon admission to the program, students must provide the following:
  - records of: flu vaccinations, tuberculosis (TB) testing, and TDAP (tetanus, diphtheria, and pertussis) vaccination
  - compliance with the MLS program criminal background screening policy and the MLS program drug and alcohol screening policy.

Notes

- All students should consult their faculty and transfer advisors early in their WNCC career to determine an appropriate curriculum sequence, and discuss, if appropriate, a curriculum best suited to transfer goals.

Associate of Applied Science

AAS.5110 (78.5 credits)

The Associate of Applied Science degree for the Medical Laboratory Technician program requires 78.5 credits, which includes 17 hours of general education requirements and 60.5 MLT program hours. In this program, students earn not only their AAS but their certificate in Phlebotomy, as well.

Program Requirements

AAS General Education Core — 17 credits

Class	Credits
Written Communication*	3
Oral Communication	3
Quantitative Reasoning*	4
Social or Lab Science (lab science required)	4
Personal Development	3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

MLT Core Courses — 61.5 credits

Total AAS Credits — 78.5 credits

Recommended Plan of Study

1st Semester (fall semester)		Credits
LPNR-1110	Body Structure and Function	4
HLTH-1060	Medical Terminology	3
INFO-1100	Microcomputer Applications	3
MEDT-1000	Introduction to Clinical Laboratory	2
MEDT-1010	Fundamentals of Phlebotomy*	4
MEDT-1210	Practicum: Phlebotomy	2.5
	Total Credits	**18.5**

2nd Semester (spring semester)		Credits
MATH-1010	Intermediate Algebra (or higher)	4
MEDT-1005	Clinical Laboratory Operations	3
PRDV-1010	Achieving College Success	3
SPCH-1200	Human Communication	3
	Written Communication GE require	3
	Total Credits	**16**

3rd Semester (summer - MLT Core Courses)		Credits
MEDT-2100	Clinical Microbiology I	3
MEDT-2110	Urinalysis & Body Fluids	3
MEDT-2120	Clinical Immunology	3
	Total Credits	**9**

4th Semester (fall - MLT Core Courses)		Credits
MEDT-2130	Clinical Chemistry	4
MEDT-2140	Clinical Hematology & Hemostasis	4
MEDT-2150	Clinical Immunohematology	4
MEDT-2160	Clinical Microbiology II	4
	Total Credits	**16**

5th Semester (spring- MLT Core Courses)		Credits
MEDT-2200	Practicum: Microbiology	3
MEDT-2230	Practicum: Chemistry	3

MEDT-2240	Practicum: Hematology	3
MEDT-2250	Practicum: Immunohematology	3
	Total Credits	**12**
6th Semester (summer - MLT Core Courses)		**Credits**
MEDT-2210	Practicum: Urinalysis	2
MEDT-2220	Practicum: Immunology	2
MEDT-2300	MLT Certification Examination Preparation Review	3
	Total Credits	**7**
	Total AAS Credits	**78.5**

**Students who possess an active Phlebotomy Technician (PBT) certificate through the American Society for Clinical Pathology-Board of Certification (ASCP-BOC) may waive this course.*

Certificate (Phlebotomy Technician)

C2-5110 (18.5 credits)

The Phlebotomy certificate program consists of 18.5 hours, 10 of which apply toward the AAS degree in Medical Laboratory Technician.

The admission requirements into the Phlebotomy program are the same as for the MLT program and are listed above.

Recommended Plan of Study

Semester		**Credits**
INFO-1100	Microcomputer Applications	3
LPNR-1110	Body Structure and Function	4
HLTH-1060	Medical Terminology	3
MEDT-1000	introduction to Clinical Laboratory	2
MEDT-1010	Fundamentals of Phlebotomy	4
MEDT-1210	Clinical Practicum: Phlebotomy	2.5
	Total Certificate Credits	**18.5**

(Pre) Medical Technology

AS.5110 (63 credits)
Associate of Science
Scottsbluff

This emphasis area constitutes the first two years of pre-professional study required for admission to a school of medical technology or medical technology program.

Students need to be aware that earning the Associate of Science degree is just the first step in pursuit of a professional career in a medical field.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a medical professional Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four - year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic principles of medical science to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to medicine and the professional responsibilities of a medical professional.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to medical concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.

Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum to best suit their transfer goals.
- In addition to the general education requirements for the AS degree, 33 credits of core courses and 9 credits

of electives are required for the degree in pre-medical technology.

- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's or professional degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
SPCH-1200 (Human Communication) preferred	
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by other core courses. Please consult with an advisor for details.

Core Program Requirements — 33 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1380	General Zoology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4
MATH-1210	Trigonometry	3
PHYS-1300	Physics I (and lab & recitation)	5
PHYS-1350	Physics II (and lab & recitation)	5

Recommended Electives or Courses for Transfer (selected from below): — 9 credits

Class		Credits
BIOS-1160	Intro to Human Anatomy & Physiology (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4

Total AS Credits — 63 credits

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab0	4
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
PRDV-1010	Achieving College Success	3
	Total Credits	**18**

2nd Semester		Credits
BIOS-1380	General Zoology (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
ENGL-1020	English Composition II	3
MATH-1210	Trigonometry	3
	Social Sciences GE elective	3
	Total Credits	**17**

3rd Semester		Credits
CHEM-2510	Organic Chemistry I (and lab)	4
PHYS-1300	Physics I (and lab & recitation)	5
	Humanities GE elective	3
	Oral Communication GE elective *(SPCH-1200 preferred)*	3
	Total Credits	**15**

4th Semester		Credits
BIOS-2460	Microbiology (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4
PHYS-1350	Physics II (and lab & recitation)	5
	Total Credits	**13**
	Total AS Credits	**63**

(Pre) Medicine

AS.5111A (68 credits)
Associate of Science
Scottsbluff

This emphasis area constitutes the first two years of the study required for admission to a college of medicine.

Students need to be aware that earning the Associate of Science degree is just the first step in the pursuit of a professional career in a medical field. Most advanced

degrees in these areas require upwards of eight or more years of study.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a medical professional Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four - year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic principles of medical science to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to medicine and the professional responsibilities of a medical professional.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to medical concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum to best suit their transfer goals.
- In addition to the general education requirements for the AS degree, 38 credits of core courses and 4 credits of electives are required for the degree in pre-medicine.
- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's or professional degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by other core courses. Please consult with an advisor for details.

Core Program Requirements — 38 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1380	General Zoology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4
MATH-1210	Trigonometry	3
MATH-1600	Analytic Geometry and Calculus I	5
PHYS-1300	Physics I (and lab & recitation)	5
PHYS-1350	Physics II (and lab & recitation)	5

Recommended Electives or Courses Required for Transfer*: 4 credits

Class		Credits
BIOS-1160	Intro to Human Anatomy & Physiology (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4

**ask academic advisor for specific recommendations*

Total AS Credits 68 credits

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
	Total Credits	**15**

2nd Semester		Credits
BIOS-1380	General Zoology (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
ENGL-1020	English Composition II	3
MATH-1210	Trigonometry	3
PRVD-1010	Achieving College Success	3
	Total Credits	**17**

3rd Semester		Credits
BIOS-2120	Genetics (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
MATH-1600	Analytic Geometry and Calculus I	5
PHYS-1300	Physics I (and lab & recitation)	5
	Total Credits	**18**

4th Semester		Credits
CHEM-2520	Organic Chemistry II (and lab)	4
PHYS-1350	Physics II (and lab & recitation)	5
	Humanities GE elective	3
	Oral Communication GE elective	3
	Social Sciences GE elective	3
	Total Credits	**18**
	Total AS Credits	**68**

Nursing (AD-N)

ADN.5116 (72 credits)
Associate Degree
Alliance • Scottsbluff • Sidney

The associate degree in nursing (AD-N) program requires successful completion of 72 credit hours of prerequisites and nursing coursework and prepares students to become a registered nurse. Students with an unencumbered LPN license may be able to pursue advanced placement option in the program.

Students will learn professionalism, inquiry-based practice, communication and collaboration, and safe patient-centered care through a combination of theory and clinical courses that proceed from simple to complex. Graduates will be prepared with the knowledge and skills to provide nursing care in diverse healthcare settings across the lifespan.

After successful completion of the AD-N program, graduates are eligible to take the National Council Licensure Examination for Registered Nursing (NCLEX-RN). The AD-N program is approved by the Nebraska State Board of Nursing, P.O. Box 95007, Lincoln, NE 68509, 402.471.4971.

Technical Standards

Please contact the Nursing Program Director regarding technical standards.

Program Outcomes

At the conclusion of the WNCC Associate Degree Nursing Program, the student:

- Demonstrate, implement, integrate, and analyze safe care practices and processes to minimize risk of harm to patients, self, and the health care team.
- Implement and coordinate holistic patient-centered care for groups of patients.
- Explain, implement, integrate, and compare professional communication skills that facilitate shared decision-making in provision of patient-centered care and in promoting effective team functioning.
- Explain, implement, integrate, and analyze findings from current evidence-based practice for use in provision of patient-centered care and in the improvement of clinical processes and systems.
- Explain the impact of and demonstrate values and beliefs consistent with professional standards, ethics, and legal regulations in the practice of nursing while adhering to established College and clinical agency policies and procedures.

Notes

- The AD-N program is a merit based selective admission program. Class selection will occur following the spring semester. All applications are due May 1.
- Students must attain a minimum cumulative prerequisite GPA of 3.0 and earn a minimum grade of "C" on all required prerequisites.
- Students must complete the following required entrance exams with the listed minimum score:
  - ATI Critical Thinking Exam with a score of 60 or higher.
  - ATI TEAS Exam with a score of proficiency level or higher.
- Current LPN's may advance place into the second year of the associate degree program. Contact the Nursing Department for specific requirements.
- Students must have a current BNA on the Nebraska registry or registry in the students' state of residency.
- Students must demonstrate math competency either by ACCUPLACER® score or having completed MATH-1010 (Intermediate Algebra) and being College Algebra ready.
- All students provisionally accepted into the program are required to undergo a criminal background check as part of the admission process. Acceptance into the program is contingent upon completion of the background check and immunization requirements.
- For additional information about the admission requirements to the program, contact the Nursing Department at 308.635.6060 or visit the Health Sciences Division office in the John N. Harms Center on the Scottsbluff campus.

Full-Time (Traditional Student)

Program Requirements

Required Prerequisites 25 credits

- Students must have a current BNA on the Nebraska registry or registry in the students' state of residency.
- Students must demonstrate math competency either by ACCUPLACER® score or having completed MATH-1010 (Intermediate Algebra) and being College Algebra ready.

Class		Credits
BIOS-2250	Human Anatomy and Physiology I (and lab)	4
BIOS-2260	Human Anatomy and Physiology II (and lab)	4
BIOS-2460	Microbiology	4
CHEM-1050	Introductory Chemistry	4
ENGL-1010	English Composition I	3
PSYC-1810	Introduction to Psychology	3
PSYC-2150	Life Span: Growth and Development	3

Nursing Core Requirements 47 credits

Students are required to complete program specific coursework after completing all prerequisites and being accepted into the AD-N program.

Total AD-N Requirements 72 credits

Recommended Plan of Study

1st Year (fall)		Credits
ADNR-1112	Fundamentals of Nursing Practice	5
ADNR-1132	Pathophysiology I	2
ADNR-1160	Health Assessment	2
BIOS-2050	Nutrition and Diet Therapy*	3
	Total Credits	**12**

**Can be taken as a prerequisite course.*

1st Year (spring)		Credits
ADNR-1122	Principles of Pharmacology I	2
ADNR-1134	Pathophysiology II	2
ADNR-1141	Adult Health and Illness I	4
ADNR-1151	Adult Health and Illness II	4
	Total Credits	**12**

2nd Year (fall)		Credits
ADNR-2112	Care of the Older Adult	2.5
ADNR-2122	Principles of Pharmacology II	2
ADNR-2126	Psychiatric/Mental Health Nursing	3
ADNR-2141	Adult Health & Illness III	4
	Total Credits	**11.5**

2nd Year (spring)		Credits
ADNR-2124	Principles of Pharmacology III	1
ADNR-2134	Maternal Child Nursing	3.5
ADNR-2151	Adult Health and Illness IV	3.5
ADNR-2175	Transition to Practice	3.5
	Total Credits	**11.5**
	Total AD-N Credits	**72**

Full-Time (Advanced Placement Option)

Required Prerequisites

- Students must have current unencumbered LPN license.

- Students with an LPN license received credit for 15 hours of previous nursing coursework.
- Students must demonstrate math competency either by ACCUPLACER® score or having completed MATH-1010 (Intermediate Algebra) and being College Algebra ready.
- The AD-N advanced placement option is a merit based selective admission program. Class selection will occur following the spring semester.
- Students must attain a minimum cumulative prerequisite GPA of 3.0 and earn a minimum grade of "C" on all required prerequisites.
- Students must complete the following required entrance exams with the listed minimum score:
  - ATI Critical Thinking Exam with a score of 60 or higher.
  - HESI-LPN to AD-N Entrance Exam with a score of 850 or higher.

Courses		Credits
ADNR-1132	Pathophysiology I	2
ADNR-1134	Pathophysiology II	2
BIOS-2050	Nutrition & Diet Therapy	3
BIOS-2250	Human Anatomy and Physiology I (and lab)	4
BIOS-2260	Human Anatomy and Physiology II (and lab)	4
BIOS-2460	Microbiology	4
CHEM-1050	Introductory Chemistry	4
ENGL-1010	English Composition I	3
PSYC-1810	Introduction to Psychology	3
PSYC-2150	Life Span: Growth and Development	3

Recommended Plan of Study for Second Year with Advanced Placement

2nd Year (fall)		Credits
ADNR-1160	Health Assessment*	2
ADNR-2112	Care of the Older Adult	2.5
ADNR-2122	Principles of Pharmacology II	2
ADNR-2126	Psychiatric/Mental Health Nursing	3
ADNR-2141	Adult Health & Illness III	4
	Total Credits	**13.5**

** Can be taken as a prerequisite course.*

2nd Year (spring)		Credits
ADNR-2124	Principles of Pharmacology III	1
ADNR-2134	Maternal Child Nursing	3.5
ADNR-2151	Adult Health and Illness IV	3.5
ADNR-2175	Transition to Practice	3.5
	Total Credits	**11.5**
	Total AD-N Credits	**72**

Nursing (Practical)

DI.5116A (49.5 – 50.5 credits)
Diploma
Alliance • Scottsbluff • Sidney

The three-semester practical nursing (PN) program prepares students to become licensed practical nurses capable of providing nursing care under the supervision of a licensed healthcare professional. Students will learn professionalism, inquiry-based practice, communication and collaboration, and safe patient-centered care through a combination of theory and clinical courses that proceed from simple to complex. Graduates will be prepared with the knowledge and skills to provide nursing care in diverse healthcare settings across the lifespan.

After successful completion of the PN program, graduates are eligible to take the National Council Licensure Examination for Practical Nursing (NCLEX-PN). The PN program is approved by the Nebraska Board of Nursing, P.O. Box 95007, Lincoln, NE 68509, 402.471.4917 and accredited by the Accreditation Commission for Education in Nursing, 3343 Peachtree Rd. NE, Suite 850, Atlanta, GA 30326, 404.975.5000, **acenursing.org.**

Technical Standards

Please contact the Nursing Program Director regarding technical standards.

Program Outcomes

At the conclusion of the WNCC practical nursing program, the student:

- Demonstrates safe care practices to minimize the potential harm to patients, self, and the health care team.
- Implements holistic patient-centered care.
- Implements professional communication skills to facilitate shared decision making in provision of patient-centered care and in promoting effective team functioning.
- Implements findings from current evidence-based practice in provision of patient-centered care and to improve clinical processes.
- Demonstrates values and beliefs consistent with professional standards, ethics, and legal regulations in practice of nursing while adhering to established College and clinical agency policies and procedures

Notes

- Applications for the program are due May 1 of each year. For admission requirements to the program contact the Nursing Department at 308.635.6060 or visit the Health Sciences Division office in the John N. Harms Center on the Scottsbluff campus.
- Students must have a current BNA on the Nebraska registry or registry in the students' state of residency.
- A minimum grade of "C" must be attained on all prerequisite courses.
- Students are required to undergo a criminal background check as part of the admission process. Students will not be fully accepted into the program until the background check is cleared and immunization requirements complete.
- Students may also take BIOS-2250 and BIOS-2260 to meet the LPNR-1110 or BIOS-1160 requirement.

Program Requirements

Diploma General Educ. Core 10-11 credits

Class		Credits
Written Communication*		3
Quantitative Reasoning*		3-4
MATH-1010 (Intermediate Algebra) or MATH-1020 (Technical Mathematics) recommended		
Lab Science		4

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Nursing Core Requirements 33 credits

Total Diploma Requirements 49.5-50.5 credits

Recommended Plan of Study

1st Semester		Credits
BIOS-2050	Nutrition and Diet Therapy	3
ENGL-1010	English Composition I	3
LPNR-1110	Body Structure and Function	4
	or	
BIOS-1160	Intro to Human Anatomy & Physiology	
PSYC-1810	Introduction to Psychology	3
	Quantitative Reasoning GE elective	3-4
	Total Credits	**16-17**

2nd Semester		Credits
BIOS-2460	Microbiology*	4
LPNR-1250	Concepts of Nursing	7
LPNR-1270	Medical/Surgical Nursing I	5.5
NURS-1410	Pharmacology I	2
	Total Credits	**18.5**

**Can be taken as a prerequisite*

3rd Semester		Credits
LPNR-2280	Medical/Surgical Nursing II	5.5
LPNR-2290	Care of the Family	5.5
LPNR-2720	Strategies for the LPN in Practice	2
NURS-1480	Pharmacology II	2
	Total Credits	**15**
	Total Diploma Credits	**46.5**

Nursing (Pre-Professional)

AS.5116B (62 credits)
Associate of Science
Scottsbluff

This emphasis area provides students with the basic courses for entry into four-year professional nursing programs. The courses are applicable to various other related programs in the life sciences and medical fields.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a medical professional Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four - year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic principles of medical science to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to medicine and the professional responsibilities of a medical professional.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of

core concepts from chemistry, mathematics, and other disciplines to medical concepts.

- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students wishing to transfer to the University of Nebraska Medical Center (UNMC) need to contact an advisor at UNMC for specific requirements about admission to the university and the program.
- Application to the BSN program is processed through UNMC, not through WNCC. General advising of the required prerequisite courses while at WNCC is provided by faculty in the Nursing program in the Division of Health Sciences at WNCC.
- Some courses have prerequisites. Students are responsible for meeting the prerequisites for the course(s) they select.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by other core courses. Please consult with an advisor for details.

Core Program Requirements — 26 credits

Class		Credits
BIOS-2050	Diet and Nutrition Therapy	3
BIOS-2250	Human Anatomy & Physiology I (with lab)	4
BIOS-2260	Human Anatomy & Physiology II (with lab)	4
BIOS-2460	Microbiology (with lab)	4
CHEM-1050	Introductory Chemistry (with lab)	4
MATH-1150	College Algebra	4
MATH-2170	Applied Statistics	3

Recommended Electives or Courses for Transfer (select from below): — 16 credits

UNMC requires five (5) additional courses. Three (3) of the courses are specified, any one of which will satisfy the WNCC social science general education requirement. The two (2) remaining courses can be selected from a list of approved courses.

Class		Credits
PSYC-1810	Introduction to Psychology	3
PSYC-2150	Life Span: Human Growth & Development	3
SOCI-1010	Introduction to Sociology	3
	Political Science and Social Organizations (see advisor)	3
	Family & Human Behavior (PRDV-1010 fulfills this Requirement; see advisor)	3
	Culture, Race, Ethnicity & Gender (see advisor)	3

Ethics Elective: UNMC requires the following ethics course, which also satisfies their and WNCC's humanities requirement:

Class		Credits
PHIL-1060	Intro to Ethics and Current Issues In Philosophy	3

Note: BSAD-2450 (Business Ethics) will satisfy UNMC's ethics requirement; however, students should be aware that if they choose to take this course, they MAY be required to take another humanities course to fulfill WNCC's humanities requirement. Please consult with an advisor.

Total AS Requirements — 62 credits

Recommended Plan of Study

1st Semester		Credits
BIOS-2250	Human Anatomy and Physiology I (and lab)	4
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
PRDV-1010	Achieving College Success (fulfills UNMC Family & Human Behavior requirement)	3
	Total Credits	**14**
2nd Semester		**Credits**
BIOS-2260	Human Anatomy and Physiology II (and lab)	4
BIOS-2460	Microbiology (and lab)	4
ENGL-1020	English Composition II	3
PSYC-1810	Introduction to Psychology	3
SOCI-1010	Introduction to Sociology	3
	Total Credits	**17**
3rd Semester		**Credits**
CHEM-1050	Introductory Chemistry	4
PSYC-2150	Life Span: Human Growth & Development	3
	Culture, Race, Ethnicity & Gender Elective (see advisor)	3
	Political Science & Social Organization elective (see advisor)	3
	Elective*	3
	Total Credits	**16**
4th Semester		**Credits**
BIOS-2050	Nutrition and Diet Therapy	3
MATH-2170	Applied Statistics	3
	Oral Communications GE elective (fulfills humanities requirement for UNMC)	3
	Ethics elective**	3
	Elective	3
	Total Credits	**15**
	Total AS Credits	**62**

**Recommend NURS-1195*

***Recommend PHIL-1060*

(Pre) Pharmacy

AS.5111B (66 credits)
Associate of Science
Scottsbluff

The pre-pharmacy emphasis area is designed to prepare students for transfer to four-year colleges and universities associated with medical schools. The program is reflective of requirements from the University of Nebraska Medical Center (UNMC).

A pre-pharmacy Associate of Science degree provides students with the first two (2) years of study required for admission to an accredited pre-pharmacy program.

Students need to be aware that earning the Associate of Science degree is just the first step in pursuit of a professional career in a medical field. Most advanced degrees in these areas require upwards of eight or more years of study.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a medical professional Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four - year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic principles of medical science to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to medicine and the professional responsibilities of a medical professional.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to medical concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment

(microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.

- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.
- In addition to the general education requirements for the AS degree, 28 credits of core courses and 14 credits of electives are required for the degree in pre-pharmacy.
- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should choose electives based on the recommendations of the college of pharmacy to which the student plans to apply.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's or professional degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by other core courses. Please consult with an advisor for details.

Core Program Requirements — 28 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1380	General Zoology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4
MATH-1210	Trigonometry	3
MATH-1600	Analytic Geometry & Calculus I	5

Recommended Electives or Courses for Transfer (select from below): — 14 credits

Class		Credits
BIOS-1160	Intro to Human Anatomy & Physiology (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4

Total AS Requirements — 66 credits

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
PRVD-1010	Achieving College Success	3
	Total Credits	**18**

2nd Semester		Credits
BIOS-1380	General Zoology (and lab)	4
CHEM-1100	General Chemistry II	4
ENGL-1020	English Composition II	3
MATH-1210	Trigonometry	3
	Oral Communication GE elective	3
	Total Credits	**17**

3rd Semester		Credits
CHEM-2510	Organic Chemistry I (and lab)	4
MATH-1600	Analytic Geometry and Calculus I	5
	Lab Science GE elective	4
	Social Sciences GE elective	3
	Total Credits	**16**

4th Semester		Credits
CHEM-2520	Organic Chemistry II (and lab)	4
	Humanities GE elective	3
	Social Sciences GE elective	3
	Electives	5
	Total Credits	**15**
	Total AS Credits	**66**

(Pre) Physical Therapy

AS.5108A (63 credits)
Associate of Science
Scottsbluff

This emphasis area is designed to prepare students for entry into a school of physical therapy. The course of study is designed so that courses taken are applicable to other related programs.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a medical professional Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic principles of medical science to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to medicine and the professional responsibilities of a medical professional.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to medical concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year college/university should consult their faculty advisor and transfer advisor early in their WNCC career to determine a curriculum best suited to their transfer goals. The student is advised to carefully consider the course requirements of the physical therapy school to which he or she is seeking admission.
- In addition to the general education requirements for the AS degree, 23 credits of core courses and 19 credits of electives are required for the degree in pre-physical therapy.
- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's or professional degree.

Program Requirements

AS General Education Core 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by other core courses. Please consult with an advisor for details.

Core Program Requirements 23 credits

Class		Credits
BIOS-2250	Human Anatomy & Physiology I	4
BIOS-2260	Human Anatomy & Physiology II	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4
MATH-1210	Trigonometry	3

Recommended electives or courses required for transfer (select from below) 19 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1380	General Zoology (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4

Total AS Requirements 63 credits

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
PRDV-1010	Achieving College Success	3
	Total Credits	**18**

2nd Semester		Credits
BIOS-1380	General Zoology (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
ENGL-1020	English Composition II	3
MATH-1210	Trigonometry	3
	Humanities GE Elective	3
	Total Credits	**17**

3rd Semester		Credits
BIOS-2250	Human Anatomy & Physiology I (and lab)	4
CHEM-2510	Organic Chemistry I (with lab)	4
PSYC-1810	Introduction to Psychology	3
	Oral Communications GE elective	3
	Total Credits	**14**

4th Semester		Credits
BIOS-2260	Human Physiology & Anatomy II (and lab)	4
CHEM-2520	Organic Chemistry II (with lab)	4
	Social Sciences GE elective	3
	Electives	3
	Total Credits	**14**
	Total AS Credits	**63**

Physics

AS.4008 (62-64 credits)
Associate of Science
Scottsbluff

This field of study provides students with comprehensive knowledge of the principles and skills related to physical science. The field of study is designed to meet the needs of students entering related technical or professional fields, as well as those seeking a general understanding of the physical world providing understanding of physical principles and interrelationships of all branches of science and mathematics.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a scientist. Required competencies may include the accumulation of knowledge in earth and space science, general biology, general chemistry, introductory physics, and organic chemistry. Stimulate interest in physics and fields related to physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of their chosen field.
- Use knowledge of basic scientific principles to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, technological advances, and demonstrate knowledge of contemporary social and ethical issues relate to scientists and the professional responsibilities of a scientist.

- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from biology, mathematics, and other disciplines to physical science concepts.
- Will demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Students will be able to function successfully within laboratory settings, including use of basic equipment (measurement devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; utilization of computer resources including computer presentation.
- Apply skills and abilities identified as WNCCs five major general education goals.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the Associate of Science Degree

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum best suited to their transfer goals.
- In addition to the general education requirements for the AS degree, 28 credits of core courses and 14 credits of electives are required for the degree in physics
- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's degree.

Program Requirements

AS General Education Core — 33-34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	3-4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core program requirements. Please consult with an advisor for details.

Core Program Requirements — 28 credits

Class		Credits
ENGR-1020	Programming and Problem Solving	3
MATH-1600	Analytic Geometry and Calculus I	5
MATH-2150	Calculus II	5
MATH-2200	Calculus III	5
PHYS-1300	Physics I (with lab and recitation)	5
	or	
PHYS-2400	Physics I with Calculus (with lab and recitation)	5
PHYS-1350	Physics II (with lab and recitation)	5
	or	
PHYS-2450	Physics II with Calculus (with lab and recitation)	5

Recommended Electives or Courses Required for Transfer — 14 credits

Class		Credits
ENGR-2020	Statics	3
PHYS-1070	Astronomy	4

It is recommended that the remainder of the seven (7) credits be selected from any of the technical electives below:

BIOS-1010	General Biology (and lab)	4
BIOS-2250	Human Anatomy & Physiology I (and lab)	4
BIOS-2260	Human Anatomy & Physiology II (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
ENGR-1070	Graphics for Engineers	3
ECEN-2110	Intro to Circuits and Electronics	3
INFO-1200	Introduction to Computer Science	3

MATH-2170	Applied Statistics	3
MATH-2210	Applied Differential Equations	3

Total AS Requirements 62-64 credits

Recommended Plan of Study

1st Semester		**Credits**
ENGL-1010	English Composition I	3
MATH-1600	Analytic Geometry and Calculus I	5
PHYS-1070	Astronomy	4
PRDV-1010	Achieving College Success	3
	Total Credits	**15**
2nd Semester		**Credits**
ENGL-1020	English Composition II	3
ENGR-1020	Programming and Problem Solving	3
MATH-2150	Calculus II	5
	Humanities GE elective	3
	Technical elective	3-4
	Total Credits	**17-18**
3rd Semester		**Credits**
MATH-2200	Calculus III	5
PHYS-2400	Physics I with Calculus	5
	Oral Communications GE elective	3
	Elective	3
	Total Credits	**16**
4th Semester		**Credits**
ENGR-2020	Statics	3
PHYS-2450	Physics II with Calculus	5
	Social Sciences GE elective	3
	Technical elective	3-4
	Total Credits	**14-15**
	Total AS Credits	**62-64**

Powerline Construction & Maintenance Technology

Associate of Applied Science
Diploma
Certificate
Alliance

This program provides students with the training to apply technical knowledge and skills to install, operate, maintain, and repair distribution, transmission, and rural electric power lines and cables. The student also learns to construct power lines according to Rural Utility Standards (RUS). Upon completion of this program, students have the skills required of an apprentice power line technician for utility providers.

All electives used to fulfill graduation requirements for this degree require pre-approval of the faculty advisor. The final plan for each student must be approved by his or her faculty advisor and the chair of the Applied Technology Division.

Program Outcomes

- Demonstrate proficiency in climbing skills including perception of and response to communication cues from pole-top heights and/or in loud settings.
- Demonstrate functional working knowledge electrical theory and concepts as a baseline for efficient and safe work environment conditions.
- Develop safe working habits and skills necessary for an understanding of power line safety guidelines and principles in accordance with the American Public Power Association and OHSA.
- Identify, select, and utilize the appropriate tools, materials, and equipment for the installation, maintenance, and repair of utilities services; following specifications and drawings for construction units.
- Use information and instruction to work cooperatively with groups of individuals to accomplish actual workplace simulations in outdoor settings.

Technical Standards

- Apply information and instruction delivered in a classroom setting to the successful performance of lab tasks to simulate actual workplace settings.
- Demonstrate a functional working knowledge of electrical theory and concepts as a baseline for efficient and safe work environment conditions.
- Follow safety procedures described in the American Public Power Association Safety Handbook.
- Identify, select, and utilize the appropriate tools, materials, and equipment for the installation, maintenance, and repair of Rural Utilities Service (RUS) lines, following specifications and drawings for construction units.
- Identify, select and utilize the appropriate tools, materials, and equipment for the installation, maintenance, and repair of a variety of electrical equipment such as transformers, reclosers, grounds, disconnect switches, fused cutouts, and other industry-standard devices.
- Inspect equipment and machinery to ensure safe operational condition per established guidelines.
- Operate hand tools, equipment, and machinery common to the power line trade in a safe manner.

- Utilize a hand line to hoist equipment and materials as necessary to elevated positions.
- Operate equipment such as bucket trucks and digger derrick trucks from elevated platforms.
- Read a load lifting chart and safely load, secure, and unload a variety of equipment and materials using a bucket truck and/or digger derrick truck.
- Climb wooden and steel poles to heights of up to 45 feet to perform construction, repair, or coworker rescue maneuvers.
- Perceive and respond to communication cues from pole-top heights and/or in loud environments.
- Work cooperatively with groups of individuals to accomplish physical tasks in outdoor settings.

Associate of Applied Science (AAS)

AAS.4603 (66 credits)

Students must successfully complete a minimum of 15 credits of general education in addition to the Powerline core courses required for the certificate (see below). Students should consult with their academic advisor about how best to incorporate the general education requirements into their academic pathway.

Notes

- Interested students should contact the Admissions Office for current program requirements.
- The following are required for acceptance into the Powerline Construction & Maintenance Technology program: a physical exam; health insurance; valid driver's license; and purchase of climbing tools and equipment. For specific information regarding these items, prospective students should contact the Admissions Office.
- The Merchant Training Program requires an average of 70% on all unit tests in order to take the final for that book/semester. Students who do not have a 70% average on these tests will not be allowed to take the Merchant Training Program final for that book/semester.
- In order to progress to the next book/semester in the Merchant Training Program, students must pass the final for the current book/semester and maintain a 2.5 cumulative GPA in UTIL program specific courses. WNCC requires a 2.0 cumulative GPA overall for graduation.
- An internship is required of all students pursuing a degree, diploma, or certificate in Powerline Construction & Maintenance Technology.

Program Requirements

AAS General Education Core 15 credits

Class	Credits
Written Communication*	3
ENGL-1000 (Workplace Writing) recommended	
Oral Communication	3
SPCH-1200 (Human Communication) recommended	
Quantitative Reasoning*	3
MATH-1020 (Technical Math) recommended	
Social or Lab Science	3
ECON-1230 (General Economics) recommended	
Personal Development	3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Core Program Requirements 51 credits

See requirements for certificate program (below).

Total AAS Requirements 66 credits

Diploma

D2.4603 (60 credits)

This diploma is designed as a standalone program or to fulfill 60 credits of the Powerline Construction & Maintenance Technology AAS degree.

Students must successfully complete a minimum of nine (9) credits of general education in addition to the Powerline core courses required for the certificate (see below). Students should consult with their academic advisor about how best to incorporate the general education requirements into their academic pathway.

Program Requirements

Diploma General Education Core 9 credits

Class	Credits
Written Communication*	3
ENGL-1000 (Workplace Writing) recommended	
Quantitative Reasoning*	3
MATH-1020 (Technical Math) recommended	
Personal Development	3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Core Program Requirements **51 credits**

See requirements for certificate program (below)

Total Diploma Requirements **60 credits**

Certificate

C2.4603 (51 Credits)

This certificate is designed as a standalone program or to fulfill 51 credits of the Powerline Construction & Maintenance Technology AAS degree or diploma.

Program Requirements

The certificate in Powerline Construction and Maintenance Technology requires 51 credits as described in the plan of study below.

Recommended Plan of Study

1st Semester (summer)		Credits
AMDT-1000	OSHA 10 for General Industry	1
TRAN-1100	Commercial Driver's License (CDL Class B)	2
UTIL-1100	Introduction to Power Line Basics and Safety	3.5
UTIL-1200	Basic Climbing	2.5
UTIL-1500	Applied Electric Science for Powerline I	2
UTIL-1600	Applied Math for Powerline I	1
	Total Credits	**12**

2nd Semester (fall)		Credits
UTIL-1010	Staking/Mapping I	1
UTIL-1020	Rigging I	1
UTIL-1030	Power Use I	1
UTIL-1040	Street Lighting I	1
UTIL-1150	Safety I	1
UTIL-1415	Overhead Power Line Construction I	3
UTIL-1425	Electrical Equipment Structure & Design I	3
UTIL-1435	Electrical Equipment Structure & Design Lab	3
UTIL-1550	Applied Electric Science for Powerline II	3
UTIL-1650	Applied Math for Powerline II	1
	Total Credits	**18**

3rd Semester (spring)		Credits
UTIL-2010	Staking/Mapping II	1
UTIL-2020	Safety II	1
UTIL-2030	Power Use II	1
UTIL-2040	Street Lighting II	1
UTIL-2350	Transformer Connections	4
UTIL-2415	Overhead Power Line Construction II	3
UTIL-2425	Electrical Equipment Structure & Design II	4
UTIL-2500	UTIL Internship	3
UTIL-2550	Applied Electric Science for Powerline III	3
	Total Credits	**21**
	Total Certificate Credits	**51**

Psychology

AA.4201 (60 credits)
Associate of Arts (AA)
Alliance • Scottsbluff • Sidney

The Associate of Arts program in psychology will provide students with the core curriculum and the foundational work for an eventual bachelor's degree in psychology. The course of study offers the student the opportunity to study a wide variety of topics within this multifaceted discipline. This field of study is appropriate for students who would like to become counselors, social workers, case managers, career counselors, rehabilitation specialists, and psychiatric technicians. The understanding of human behavior and communications also make psychology majors good candidates for positions in top- and mid-level management and administration, sales, labor-relations, personnel and training, real estate, business services and insurance, or marketing.

Program Outcomes

- Students will be prepared to transfer to a four-year psychology program.
- Students will demonstrate fundamental knowledge and comprehension of major psychological concepts.
- Students will apply scientific reasoning and problem solving incorporating effective research methods.
- Students will demonstrate an understanding of professional ethics as defined by the APA.
- Students will demonstrate an understanding of the value of diversity in psychology.
- Students will demonstrate competence in writing and interpersonal communication skills in a variety of applications.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer

advisors early in their WNCC career to determine a curriculum to best suit their transfer goals.

- If transferring institution does not require foreign language, the student may take other social science or elective courses.
- Students should discuss specific course recommendations to fulfill the social science and humanities elective requirements.

Program Requirements

AA General Education Core 31-32 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities (two courses from different alpha)	6
Math	3-4
Lab Sciences	4
Personal Development	3
Social Sciences (two courses from different alpha)	6

Note: Some general education requirements may be satisfied by courses in field endorsement areas. Please consult with an advisor for details.

Core Program Requirements 18 credits

Class		Credits
PSYC 1810	Introduction to Psychology	3
PSYC 2020	Drugs and Behavior	3
PSYC 2090	Abnormal Psychology	3
PSYC 2140	Social Psychology	3
PSYC 2150	Lifespan Growth & Development	3
PSYC 2650	Research Methods in Psychology	3

Recommended Electives 10-11 credits

Class		Credits
ANTH 2130	Mexican American/Native American Cultures	3
PHIL 1060	Introduction to Ethics	3
PHIL 2610	Comparative Religions	3
SOCI 2150	Issues of Unity and Diversity	3
SOCI 2250	Marriage and Family	3

Total AA Requirements 60 credits

Recommended Plan of Study

1st Semester		Credits
ENGL-1010	English Composition I	3
MATH-2170	Applied Statistics	3
PRDV-1010	Achieving College Success	3
PSYC-1810	Introduction to Psychology	3
	General Education elective	3
	Total Credits	**15**

2nd Semester		Credits
ENGL-1020	English Composition II	3
PSYC-2050	Abnormal Psychology	3
PSYC-2150	Lifespan Growth and Development	3
	General Education electives	6
	Total Credits	**15**

3rd Semester		Credits
PSYC-2140	Social Psychology	3
PSYC-2650	Research Methods in Psychology	3
	General Education electives	9
	Total Credits	**15**

4th Semester		Credits
PSYC-2020	Drugs and Behavior	3
	General Education electives	12
	Total Credits	**15**
	Total AA Credits	**60**

(Pre) Radiologic Technology

AS.5122A (61-65 credits)
Associate of Science
Scottsbluff

This emphasis area provides students interested in radiologic technology with the background academic courses necessary for entry into a specialized school of radiography. The program is designed so that courses taken are applicable to related programs. This degree is configured for articulation with Chadron State College in Chadron and Scottsbluff, Nebraska, and the School of Radiologic Technology at Regional West Medical Center (RWMC) in Scottsbluff, Nebraska.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a medical professional. Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-

year institutions to continue their chosen field of study.

- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic scientific principles to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to medicine and the professional responsibilities of a medical professional.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to medical concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum to best suit their transfer goals.
- Students applying to Chadron State College and/or the School of Radiologic Technology at RWMC need to contact the counselors or program advisors to determine when they should apply to the program.
- PHYS-1225 (Science of Sports) will satisfy the physics requirement for the School of Radiologic Technology at Regional West Medical Center. If a student is planning on transferring and completing advanced training such as ultrasound, MRI, or nuclear medicine, he or she should contact his or her transfer institution to determine if PHYS-1225 will satisfy the requirements for an advanced program of study.
- Radiologic science courses are accepted as transfer credit from the School of Radiologic Technology at RWMC to complete degree requirements. The AS degree is awarded following the successful completion of all listed general education and prerequisite courses, plus sufficient radiologic science elective courses to total a minimum of 60 credit credits.

Program Requirements

AS General Education Core — 34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core requirements. Please consult with an advisor for details.

Core Program Requirements — 27-31 credits

Total AS Requirements — 61-65 credits

Recommended Plan of Study

1st Semester		Credits
ENGL-1010	English Composition I	3
INFO-1100	Microcomputer Applications	3
MATH-1150	College Algebra	4
PRDV-1010	Achieving College Success	3
	Social Sciences GE elective	3
	Total Credits	**16**

2nd Semester		Credits
BIOS-1160	Introduction to Human Anatomy & Physiology	4
ENGL-1020	English Composition II	3
HLTH-1060	Medical Terminology	3
MATH-2170	Applied Statistics	3
	Oral Communications GE elective	3
	Total Credits	**16**

3rd Semester		Credits
CHEM-1050	Introductory Chemistry (and lab)	4
PHYS-1300	Physics I (and lab and recitation)	4-5
	or	
PHYS-1225	Science of Sports	
	Humanities GE elective	3
	Radiologic Science (transfer courses)	4-5
	Total Credits	**15-17**

4th Semester		Credits
	Radiologic Science (transfer courses)	14-16
	Total Credits	**14-16**
	Total AS Credits	**61-65**

Rangeland Management

AS.0111 (63 credits)
Associates of Science
Scottsbluff

The Rangeland Management program is a joint effort between WNCC and Chadron State College (CSC) to provide students with core curricular work as well as the foundational work for an eventual Bachelor of Science degree in Rangeland Management. The program is offered through WNCC and CSC with the ultimate culmination of the program through the Department of Applied Science at Chadron State College.

The program includes course offerings applicable to an associate's degree from WNCC as well as a bachelor's degree from CSC. The program provides for the reverse transfer of CSC credit to be applied to the associate's degree from WNCC.

Agricultural classes are delivered to WNCC by CSC. This two year program fulfills WNCC general education core requirements as well as help fulfill CSC Essential Studies requirements in addition to delivering the appropriate agricultural foundation classes to pursue the advanced degree.

Upon acceptance and transfer to CSC, students have the opportunity to branch out into one of three rangeland management options including Rangeland Ecology, Rangeland Livestock Management, and Rangeland Wildlife Management.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a scientist Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, evolution, chemistry, and physics.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic scientific principles to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to science and the professional responsibilities of a scientist.
- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to life science concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- ACCUPLACER® or ACT scores dictate entry levels for both English and math courses.
- Recommended courses at WNCC that satisfy the CSC Essential Studies - ARTS, MUSC, or THEA elective are:

Class		Credit
MUSC-1010	Music Appreciation	3
THEA-1010	Introduction to Theatre	3

- The following courses offered at WNCC that qualify to meet the CSC Essential Studies – Mode of Inquiry requirement are:

Class		Credit
HIST-2010	American History I	3
HIST-2020	American History II	3
HIST-2100	World Civilization (4000 BC-1500 AD)	3
HIST-2110	World Civilization (1500 AD-Present)	3
POLS-1000	American Government	3

- Chadron State College offers indicated AGRI classes through the ITV delivery system and are subject to reverse transfer agreements between WNCC and CSC.
- Students will take AGRI-242 (Principles of Rangeland and Forage Management) concurrently with AGRI-242L (laboratory), and AGRI-245 (Principles of Soil Science) concurrently with AGRI-245L (laboratory). Lab offerings for both classes take place one day per month during the semester each course is scheduled.
- Due to the dual offering of classes through both WNCC and CSC each semester, students must be admitted to both WNCC and CSC and are required to be dual enrolled through WNCC and CSC. Completion of course registration for classes takes place through the respective school offering the courses.
- Although not specifically scheduled, students are recommended to utilize summer semesters if necessary to maintain pace within the program. CSC classes offerings are limited to the semesters reflected by the schedule.
- In addition to the general education requirements for the AS degree, 19 credits of core courses and 23 credits of electives are required for the degree in biology/ecology.
- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's degree.

Program Requirements

AS General Education Core — 34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core requirements. Please consult with an advisor for details.

Core Program Requirements — 19 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1380	General Zoology (and lab)	4
CHEM-1050	Introductory Chemistry (and lab)	4
MATH-1150	College Algebra	4
MATH-2170	Applied Statistics	3

Recommended Electives or Courses Required for Transfer — 23 credits

CSC offers specific courses via their ITV system located on the Scottsbluff WNCC campus. These are used as reverse transfer credit for WNCC and CSC. Students will need to register for these courses through CSC:

Class		Credits
AGRI-132	Introduction to Animal Science	3
AGRI-141	Introduction to Plant Science	3
AGRI-151	Foundations of Nutrition & Metabolism	3
AGRI-235	Introduction to Wildlife Management	3
AGRI-242	Principles of Rangeland and Forage Management (and lab)	4
AGRI-245	Principles of Soil Science (and lab)	4
	Additional humanities course	3

Total AS Credits — 63 credits

Recommended Plan of Study

1st Semester		Credits
AGRI-132	Intro to Animal Science (CSC)	3
AGRI-141	Intro to Plant Science (CSC)	3
BIOS-1010	General Biology (and lab)	4
MATH-1150	College Algebra	4
PRVD-1010	Achieving College Success	3
	Total Credits	**17**

2nd Semester		Credits
AGRI-151	Foundations of Nutrition and Metabolism (CSC)	3

BIOS-1380	General Zoology (and lab)	4
ENGL-1010	English Composition I	3
	ARTS, MUSC, or THEA elective (see Notes - CSC Essential Studies)	3
	Total Credits	**13**

3rd Semester		**Credits**
AGRI-242	Principles of Rangeland and Forage Management (CSC) (and lab)	4
CHEM-1050	Introductory Chemistry (and lab)	4
ENGL-1020	English Composition II	3
	Oral Communications GE elective	3
	HIST, POLS elective (see Notes CSC Essential Studies)	3
	Total Credits	**17**

4th Semester		**Credits**
AGRI-235	Introduction to Wildlife Management (CSC)	3
AGRI-245	Principles of Soil Science (CSC) (with lab)	4
HUMS-1100	Introduction to Humanities (see Notes - CSC Essential Studies)	3
MATH-2170	Applied Statistics	3
	Social science GE elective	3
	Total Credits	**16**
	Total AS Credits	**63**

Social Work

AA.4407 (61-62 credits)
Associate of Arts
Alliance • Scottsbluff • Sidney

The social work emphasis area is designed to help individuals, social groups, and society function more effectively. The practice of social work requires knowledge of human behavior, social institutions, and ethnic groups. A social work major may choose to work in such fields as child welfare, aging, alcoholism, family counseling, and corrections. Students are expected to take courses in support areas such as science, mathematics, social science, and languages. Please note: a Social Work major does not necessarily fit into the Human Service Work program or a general psychology program.

Program Outcomes

- Facilitate the student's entry into a baccalaureate program in social work at a four-year college or university.

Notes

- Students who plan to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum to best suit their transfer goals.
  - Students planning to transfer to Chadron State College or the University of Nebraska-Kearney should work closely with their faculty advisor regarding elective credits.
  - Students planning to transfer to the University of Wyoming should take POLS-1000 American Government at the University of Wyoming.

Program Requirements

AA General Education Core 31-32 credits

Class	**Credits**
Written Communication	6
Oral Communication	3
Humanities (two courses from different alpha)	6
Math	3-4
Lab Sciences	4
Personal Development	3
Social Sciences (two courses from different alpha)	6

Notes:

- *Some general education requirements may be satisfied by required courses Please consult with an advisor for details.*
- *If transferring to University of Nebraska – Kearney, seven (7) hours of lab sciences are required. Please see advisor for details.*

Core Program Requirements or Elective Courses 30-31 credits

Total AA Requirements 61-62 credits

Recommended Plan of Study

1st Semester		**Credits**
ENGL-1010	English Composition I	3
HUSR-1620	Introduction to Human Services Work (or SW231 Professional Social Work from CSC)	3
PRDV-1010	Achieving College Success	3
	Lab Science GE elective (see advisor)	3-4
	Elective (see advisor)	3
	Total Credits	**15-16**

2nd Semester		Credits
ENGL-1020	English Composition II	3
MATH-2170	Applied Statistics	3
PSYC-1810	Introduction to Psychology	3
	Oral Communication GE elective	3
	Elective (or SW251 HBSE 1 at CSC) (see advisor)	3
	Total Credits	**15**
3rd Semester		**Credits**
ECON-1230	General Economics	3
HIST-2010	American History I	3
	or	
HIST-2020	American History II	
PSYC-2650	Research Methods in Psychology	3
	Elective (or SW252 HBSE 2 at CSC) (see advisor)	3
	Elective (see advisor)	3
	Total Credits	**15**
4th Semester		**Credits**
POLS-1000	American Government	3
	Humanities GE elective (see advisor)	3
	Lab Science GE elective (see advisor)	3-4
	Elective (or SW331 Child & Family at CSC) (see advisor)	3
	Elective (see advisor)	3
	Total Credits	**16**
	TOTAL AA Credits	**61-62**

Surgical Technology

AAS.5109A (63 credits)
Associate of Applied Science
Scottsbluff

The Surgical Technology program offers an Associate Degree in Applied Science. The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The primary goal of the program is to prepare competent entry-level surgical technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. The curriculum includes selected science courses, which provide the basis for in-depth consideration of both theory and clinical application of principles utilized in surgical technology. Basic courses in the theoretical aspects of surgical technology encompass lecture, skills labs, clinical, and on-line instruction.

The mission of the Surgical Technology program is to provide a student-centric environment that develops professional, qualified, patient advocates who are prepared to function as competent entry-level professionals in the field of surgical technology, become life-long learners, and contribute positively to the communities and agencies they serve.

Furthermore, the program strives to meet student learning and employability goals via a combination of general education and comprehensive clinical education utilizing the cognitive, psychomotor, and affective learning domains. The program is committed to preparing graduates to support societal and technological advancements, aligning with the College's mission to model excellence in service to the community.

Program Outcomes

- Demonstrate effective interpretation and expression of ideas through written and oral communication in the operating room.
- Demonstrate the ability to employ critical thinking skills to determine necessary equipment for various surgical procedures.
- Demonstrate the role of first scrub on all basic general and specialty surgical cases as defined by the Association of Surgical Technologists (AST).
- Demonstrate the application of principles of asepsis in a knowledgeable manner that provides for optimal patient care in the operating room..
- Demonstrate a surgical conscience in all aspects of their professional practice.

Notes

- For admission requirements contact the Surgical Technology Program Director at 308.254.7431.
- Students are required to undergo a criminal background check and 10-panel drug screen as part of the admissions process.
- Participation in clinical coursework may require travel and/or temporary relocation outside of the immediate Panhandle area.
- For information on transfer credits, refer to "Transfer of Credits to WNCC" in this catalog.
- Students must take the ACCUPLACER® Basic Skills Assessment prior to registering for math and English courses.

Program Requirements

AAS General Education Core — 15 credits

Class	Credits
Written Communication*	3

Oral Communication		3
Quantitative Reasoning*		3
Social or Lab Science		3
Personal Development		3

**Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.*

Core Program Requirements 48 credits

Total AAS Requirements 63 credits

Recommended Plan of Study

1st Semester (fall – Prerequisites)		**Credits**
BIOS-2250	Human Anatomy & Physiology I (and lab)	4
ENGL-1010	English Composition I	3
HLTH-1060	Comprehensive Medical Terminology	3
MATH-1060	Introduction to Algebra	4
	Total Credits	**14**

2nd Semester (spring)		**Credits**
BIOS-2260	Human Anatomy & Physiology II (and lab)	4
BIOS-2460	Microbiology	4
PSYC-1810	Introduction to Psychology	3
	Oral Communication GE elective	3
	Total Credits	**14**

3rd Semester (summer)		**Credits**
SURT-1030	Surgical Procedures I	3
SURT-1100	Introduction to Surgical Technology	2
SURT-1100L	Principles & Practices of Surgical Technology I	2
	Total Credits	**7**

4th Semester (fall)		**Credits**
SURT-1005	Principles & Practice of Central Processing	3
SURT-1070	Clinical Practice I	3
SURT-1125	Pharmacology for the Surgical Technologist	2
SURT-2050	Surgical Procedures II	3
SURT-2050L	Principles & Practices of Surgical Technology II	3
	Total Credits	**14**

5th Semester (spring)		**Credits**
SURT-2080	Clinical Practice II	12
SURT-2210	Professional Development for the Surgical Technologist	2
	Total Credits	**14**
	TOTAL AAS Credits	**63**

(Pre) Veterinary/ Comparative Medicine

AS.5111C (67 credits)
Associate of Science
Scottsbluff

This emphasis area provides students with the first two (2) years of the study required for admission to a college of veterinary medicine. The program is reflective of requirements from the University of Nebraska Medical Center (UNMC).

Students pursuing veterinary medicine will ultimately plan to transfer to Iowa State University, which has reciprocal residency agreements with University of Nebraska-Lincoln.

The comparative medicine emphasis area can be completed through UNMC and focuses on animal research rather than preparations for a traditional veterinary medicine.

Students need to be aware that earning the Associate of Science degree is just the first step in pursuit of a professional career in a medical field. Most advanced degrees in these areas require upwards of eight or more years of study.

Program Outcomes

- Demonstrate the mastery of course work considered fundamental to the training of a medical professional. Required competencies may include the accumulation of knowledge in general biology, botany, zoology, microbiology, physiology, ecology, genetics, and evolution.
- Research program requirements at transfer institutions and implement into the planning of their programs, courses and activities appropriate for transfer to four-year institutions to continue their chosen field of study.
- Demonstrate the ability to transfer into equivalent program at a four-year institution specifically for continuation and study of a chosen field.
- Use knowledge of basic scientific principles to summarize and support a critical analysis of current scientific advances (primary literature and popular accounts), legislative issues, environmental issues, biotechnological advances, and demonstrate knowledge of contemporary social and ethical issues related to medicine and the professional responsibilities of a medical professional.

- Understand the relationship between science and other subject areas, including interdisciplinary approaches to global issues and the relationship of core concepts from chemistry, mathematics, and other disciplines to medical concepts.
- Demonstrate the ability to find, read, and critically evaluate appropriate scientific literature and resources.
- Be able to function successfully within laboratory and field settings, including use of basic equipment (microscopes, measurements devices, and computer technologies); developing and utilizing appropriate safety protocols; and putting into practice conceptual understandings of the research process illustrated by the Scientific Method.
- Utilize a variety of skills to communicate scientific information effectively, including gathering of data/information; oral and written communication skills clarifying concepts and confirming understandings; and utilization of computer resources including computer presentation.
- Demonstrate the knowledge and skills necessary to complete the College's general education requirements for the AS degree.

Notes

- Students planning to transfer to a four-year college or university should consult their faculty and transfer advisors early in their WNCC career to determine a curriculum to best suit their transfer goals.
- In addition to the general education requirements for the AS degree, 33 credits of core courses and nine (9) credits of electives are required for the degree in pre-veterinary/comparative medicine.
- Depending on the choice of electives, it is possible that the total credits earned for the AS degree will exceed 60 credit credits.
- Students should understand that the courses included in the lists of core requirements and recommended electives will be required by receiving institutions at some point in their journey to the bachelor's or professional degree.

Program Requirements

AS General Education Core — 34 credits

Class	Credits
Written Communication	6
Oral Communication	3
Humanities	3
Math*	4
Lab Sciences*	4
Personal Development	3
Social Science	3

** A total of 15-16 combined Science/Math credits are the minimum requirement for an AS degree. This must include a minimum of three (3) credits of math and four (4) credits of science from BIOS, CHEM, or PHYS options.*

Note: Some general education requirements may be satisfied by core requirements. Please consult with an advisor for details.

Core Program Requirements — 33 credits

Class		Credits
BIOS-1010	General Biology (and lab)	4
BIOS-1380	General Zoology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
MATH-1150	College Algebra	4
MATH-1210	Trigonometry	3
PHYS-1300	Physics I (with lab & recitation)	5
PHYS-1350	Physics II (with lab & recitation)	5

Recommended Electives or Courses Required for Transfer — 9 credits

Class		Credits
BIOS-1160	Intro to Human Anatomy & Physiology (and lab)	4
BIOS-2120	Genetics (and lab)	4
BIOS-2460	Microbiology (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4

Total AS Credits — 67 credits

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4
ENGL-1010	English Composition I	3
MATH-1150	College Algebra	4
PRDV-1010	Achieving College Success	3
	Total Credits	**18**

2nd Semester		Credits
BIOS-1380	General Zoology (and lab)	4
CHEM-1100	General Chemistry II (and lab)	4
ENGL-1020	English Composition II	3
MATH-1210	Trigonometry	3

	Humanities GE elective	3
	Total Credits	**17**
3rd Semester		**Credits**
BIOS-2120	Genetics (and lab)	4
CHEM-2510	Organic Chemistry I (and lab)	4
PHYS-1300	Physics I (and lab)	5
	Oral Communication GE elective	3
	Total Credits	**16**
4th Semester		**Credits**
BIOS-2460	Microbiology (and lab)	4
CHEM-2520	Organic Chemistry II (and lab)	4
PHYS-1350	Physics II (and lab)	5
	Social Sciences GE elective	3
	Total Credits	**16**
	TOTAL AS Credits	**67**

Welding Technology

Associate of Applied Science
Diploma
Certificate
Scottsbluff

Welding programs at WNCC offer students the necessary training and technical information required for employment in the welding industry. The curriculum provides training in a variety of welding skill areas.

Technical Standards

- Perform successfully safety inspections of and make minor external repairs to equipment and accessories.
- **Shielded Metal Arc Welding**
  1. Demonstrate competency in setting up and operating equipment for Shielded Metal Arc Welding on plain carbon steel.
  2. Demonstrate proficiency in fillet and groove welds, all positions, on plain carbon steel.
  3. Successfully perform 2G – 3G limited thickness qualification tests on plain carbon steel plate.
- **Gas Metal Arc Welding**
  1. Demonstrate competency in setting up and operating equipment for Gas Metal Arc Welding on plain carbon steel.

  Short Circuit Transfer
  2. Demonstrate proficiency in fillet and groove welds, all positions, on plain carbon steel.

  Spray Transfer
  3. Successfully perform 1F – 2F and 1G welds on plain carbon steel plate.
- **Flux Cored Arc Welding**
  1. Demonstrate competency in setting up and operating equipment for Shielded Metal Arc Welding carbon steel.
  2. Demonstrate proficiency in fillet and groove welds, all positions, on plain carbon steel.
  3. Successfully perform 2G – 3G limited thickness qualification tests on plain carbon steel plate.
- **Gas Tungsten Arc Welding**
  1. Demonstrate competency in setting up and operating equipment for Gas Metal Arc Welding operations on plain carbon steel and aluminum.
  2. Demonstrate proficiency in fillet and groove welds, all positions, on plain carbon steel.
  3. Successfully perform 1F – 2F and 1G welds on aluminum.
- **Oxyfuel Gas Welding and Thermal Cutting Operations**

  Manual Oxyfuel Gas Cutting (OFC)
  1. Demonstrate competency in setting up and operating equipment for manual oxyfuel gas cutting operations on plain carbon steel.
  2. Demonstrate proficiency in straight, shape, and bevel cutting operations on plain carbon steel.

  Machine Oxyfuel Gas Cutting Operations (OFC)-[Track Burner]
  1. Demonstrate competency in setting up and operating equipment for machine oxyfuel gas cutting (track burner) operations on plain carbon steel.
  2. Perform straight and bevel cutting operations on plain carbon steel.

  Air Carbon Arc Cutting (CAC-A)
  1. Demonstrate competency in setting up and operating equipment for manual air carbon arc gouging and cutting operations on plain carbon steel.
  2. Perform metal removal operations on plain carbon steel.

  Plasma Arc Cutting (PAC)
  1. Demonstrate competency in setting up and operating equipment for manual plasma arc cutting operations on plain carbon steel.
  2. Perform shape cutting operations on plain carbon steel.
- **Drawing and Welding Symbol Interpretation**
  1. Interpret basic elements of a drawing or sketch.
  2. Interpret welding symbol information.

Program Outcomes

- Develop an attitude of safe work practices and a cooperative attitude toward skill development and fellow workers.
- Develop the critical thinking skills and academic knowledge needed to successfully demonstrate welding processes.
- Interpret basic elements of a parts drawing or blueprint including welding symbol information.
- Perform successfully safety inspections of and make minor external repairs to equipment and accessories.
- Develop the skill of working efficiently and the attitude or resourcefulness related to the welding industry.

Associate of Applied Science

AAS.4805 (60 credits)

Program Requirements

AAS General Education Core 15-17 credits

Class	Credits
Written Communication*	3
Oral Communication	3
Quantitative Reasoning*	3-4
Social or Lab Science	3-4
Personal Development	3

*Written Communication and Quantitative Reasoning course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses to best meet their academic goals.

Welding Requirements 34 credits

Class		Credits
AMDT-1000	OSHA-10**	1
WELD-1015	Introduction to Welding**	3
WELD-1050	Gas Tungsten Arc Welding – I***	3
WELD-1120	Gas Metal Arc Welding**	3
WELD-1125	Flux Cored Arc Welding**	3
WELD-1200	Shielded Metal Arc Welding – I**	3
WELD-1250	Shielded Metal Arc Welding – II**	3
WELD-1300	Blue Print Reading for Welders***	3
WELD-2025	Structural Welding***	3
WELD-2110	Downhill Pipe Welding – SMAW***	3
WELD-2115	Uphill Pipe Welding – SMAW***	3
WELD-2150	Gas Tungsten Arc Welding – II***	3

Elective Credits 8-14 credits

Class		Credit
WELD-1170	Arc Welding & Shop Fabrication	2-3
WELD-2500	Welding Technology Internship	1-3
	Applied Technology Electives****	5-8

TOTAL AAS Requirements 60 credits

Diploma

D2.4805 (43 credits)

Students must complete nine (9) credits of general education requirements and 34 credits of credit in WELD courses for a total of 43 credits. Completion of the 34 WELD credits can be accomplished by completing both the Basic Welding Certificate and the Advanced Welding Certificate.

Program Requirements

Diploma General Education Core 9 credits

ENGL-1000	Workplace Writing (or higher)*	3
MATH-1020	Technical Mathematics (or higher)*	3
	One course selected from Communication, Science, Social Science, or Personal Development	3

Core Program Requirements 34 credits

Class		Credits
AMDT-1000	OSHA-10**	1
WELD-1015	Introduction to Welding**	3
WELD-1050	Gas Tungsten Arc Welding – I***	3
WELD-1120	Gas Metal Arc Welding**	3
WELD-1125	Flux Cored Arc Welding**	3
WELD-1200	Shielded Metal Arc Welding – I**	3
WELD-1250	Shielded Metal Arc Welding – II**	3
WELD-1300	Blue Print Reading for Welders***	3
WELD-2025	Structural Welding***	3
WELD-2110	Downhill Pipe Welding – SMAW***	3
WELD-2115	Uphill Pipe Welding – SMAW***	3
WELD-2150	Gas Tungsten Arc Welding – II***	3

**Basic Welding Certificate requirements

***Advanced Welding Certificate requirements

****Any Applied Technology course; Manufacturing strongly recommended)

Total Diploma Credits 43 credits

Certificate

C2.4805A (16 credits) – Basic Welding Certificate

C2.4805B (18 credits) – Advanced Welding Certificate

WNCC offers two certificate programs in welding – a basic and an advanced program. These certificate programs are designed as standalone certificates, or the programs can be "stacked" together to fulfill 34 of the 43 credits required for a diploma in welding. They also can be applied toward the 60 credits required for an associate of applied science degree in welding.

Recommended Plans of Study

Basic Welding Certificate — 16 credits

Class		Credits
AMDT-1000	OSHA-10	1
WELD-1015	Introduction to Welding	3
WELD-1120	Gas Metal Arc Welding	3
WELD-1125	Flux Cored Arc Welding	3
WELD-1200	Shielded Metal Arc Welding – I	3
WELD-1250	Shielded Metal Arc Welding – II	3
	Total Credits	**16**

Advanced Welding Certificate — 18 credits

Class		Credits
WELD-1050	Gas Tungsten Arc Welding – I	3
WELD-1300	Blue Print Reading for Welders	3
WELD-2025	Structural Welding	3
WELD-2110	Downhill Pipe Welding – SMAW	3
WELD-2115	Uphill Pipe Welding – SMAW	3
WELD-2150	Gas Tungsten Arc Welding – II	3
	Total Credits	**18**

Course Descriptions by Program

Academic ESL

ESLX-0035
Intermediate English for Academic Purposes

Prerequisite: ACCUPLACER®, TOEFL, or ACT scores

This course is for students with some background in English. Students receive instruction and guided study in preparation for success at the college level. The course emphasizes communication on a broad range of topics as well as the development of strategies for effective communication. Upon successful completion of the course, the student qualifies for placement in Developmental Writing and Reading Techniques.

(6/90/0/0/0/0)

Accounting

ACCT-1200
Principles of Accounting I

This course is designed to provide introductory knowledge of financial accounting principles, concepts, and practices. Included topics are the balance sheet, the income statement, the statement of equity, the statement of cash flows, worksheets, journals, ledgers, accruals, adjusting and closing entries, internal control, inventories, fixed and intangible assets, liabilities, equity, and financial statement analysis. This course provides a foundation for more advanced work in the fields of accounting and business.

(3/45/0/0/0/0)

ACCT-1210
Principles of Accounting II

Prerequisite: ACCT-1200

This course is a continuation of ACCT-1200. The course covers cost relationship, statement analysis, and other accounting techniques used for management purposes and decision making.

(3/45/0/0/0/0)

ACCT-2200
Cost/Managerial Accounting

Prerequisite: ACCT-1210 or ACCT-1250

This course covers accounting for manufacturing cost procedures and concerns including job-order and process cost systems; managerial and cost reports; budgeting and standard costing; planning and control; cost-volume-profit analysis; cost estimations; and product costing and pricing. Managerial emphasis is stressed throughout the course.

(3/45/0/0/0/0)

ACCT-2250
Individual Income Tax

Prerequisite: ACCT-1200

This course is designed to provide students with an introduction to the fundamentals of individual income tax and its calculation. Tax issues surrounding business entities, disposition of property, and tax basis are also discussed. Students are introduced to alternative minimum tax, passive activity rules, charitable contributions and tax minimization strategies. This course is a foundation for more advanced work in the area of federal and state taxes.

(3/45/0/0/0/0)

ACCT-2310
Accounting Applications (Quickbooks)

Prerequisite: ACCT-1200

This course is an introduction to computerized accounting using a commercial software package designed for small to mid-sized businesses. Applications include accounts receivables and sales, accounts payables and purchases, general ledger, payroll, inventories, financial reports, charts and graphs. Prior basic accounting knowledge of debits/credits, account classifications, and the accounting cycle for a service business and a merchandising business is required.

(3/45/0/0/0/0)

ACCT-2500
Accounting Internship

Prerequisite: ACCT 1200

Work experience is an important part of any educational program. This internship is intended to give students extended experience in solving real world problems while working under the supervision of an employer and instructor. Students may be compensated for the credits and will receive one (1) credit for each 60 credits worked up to three (3) credits.

(1-3/0/0/0/0/60-180)

ACCT-2800

National Certified Bookkeeper Prep

Prerequisite: ACCT-1200

This course is an in-depth study of accounting principles used by bookkeepers, preparing students to take the national examinations required to obtain a Certified Bookkeeper designation from the American Institute of Professional Bookkeepers. Topics include adjusting entries, correction of accounting errors, payroll, depreciation, inventory, and internal controls and fraud prevention.

(3/45/0/0/0/0)

Advanced Manufacturing Technology

AMDT-1000

OSHA 10 for General Industry

This course provides instruction on the rights of general industry workers, employer responsibilities, and how to file a complaint as well as how to identify, abate, avoid, and prevent job related hazards. The course curriculum is based upon OSHA 10 General Industry requirements. The course will introduce general industry OSHA standards relating to personal protective equipment, HAZMAT (hazardous materials) communication, tool safety, walking and working surfaces, electrical safety, emergency response, lockout/tagout, and others.

(1/15/0/0/0/0)

AMDT-1110

Introduction to Quality & Continuous Improvement

This course enables students to understand and interpret blueprints, machine shop symbols, and various drawings used in the industrial trades. The course focuses on determining dimensions and using shapes in understanding fabrication and assembly. This course will further provide students with the quality management principles, techniques, tools, and skills for on-the-job applications useful in a wide-range of business organizations such as the service industry and manufacturing. Students will apply basic measurement and system calibration skills and measurement system analysis. Students will also study manufacturing properties of materials, the behavior of materials, and the advantages and disadvantages of types of materials in an industrial setting.

(3/45/0/0/0/0)

AMDT-1120

Introduction to Manufacturing Technology

This course is designed to prepare students for the Manufacturing Skill Standards Council's (MSSC) Certification Assessment. The course curriculum is based upon national standards for production workers. This course introduces students to the history and purpose of manufacturing as well as basic manufacturing operations. In particular, manufacturing principles, theories, basic process overview, materials, production machine operations, and finished product logistics are discussed.

(3/45/0/0/0/0)

Anthropology

ANTH-2130

Mexican-American & Native-American Cultures

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a social science requirement for AA or AS degree

This course is designed to provide an understanding of Mexican-American and Native-American people through a study of their historic backgrounds, the patterning of family structure, health practices and folk medicine, religious concerns, value systems, contributions to American culture, bicultural outlook, and how all relate to contemporary cultural patterns.

(3/45/0/0/0/0)

Applied Agriculture Technology

AGRI-1005

Introduction to Technical & Applied Agriculture

This course introduces students to the field of technical and applied agriculture. The course covers career exploration and employability skills involved in the applied agriculture sector. Special consideration will be emphasized on basic knowledge of tools used in agriculture and how to utilize them properly and safely.

(3/45/0/0/0/0)

AGRI-1010
Agriculture Regulations Overview

This course introduces students to several compliance regulations governing the agricultural industry, primarily at the operational level. Students will be exposed to Codes of Federal Regulations (CFR), including regulations of the Department of Agriculture, Environmental Protection Agency, Occupational Safety and Health Administration, Food and Drug Administration, and Department of Transportation. Additional state regulatory considerations will be discussed as well.

(3/45/0/0/0/0)

AGRI-1020
Weed & Pest Control

This course introduces students to the field of weed and pest control in agriculture. The focus is on gathering actionable information to reduce and eliminate weeds and pests in production agriculture. This class assists in preparing the student to sit for the Private Applicators License Exam through the University of Nebraska-Lincoln.

(3/45/0/0/0/0)

AGRI-1100
Agriculture Machinery

This course introduces students to different machines used past and present in agriculture. Students will be exposed to different agricultural machines through observation as well as simulations.

(3/30/0/45/0/0)

AGRI-1370
Water System Management

This course introduces students to different aspects of water systems management. Students will be exposed to different cropping and irrigation practices as well as municipal and confined animal feeding operation procedures in managing water and runoff.

(3/30/0/45/0/0)

AGRI-1400
Agricultural Commercial Vehicle Operation

This course introduces students to the field of agricultural vehicle operation. The course will provide hands on training with commercial motor vehicles and also train students in the skills necessary to obtain a Class A commercial driver's license.

(3/15/0/90/0/0)

AGRI-2000
Emerging Agricultural Issues

This course introduces students to the many different issues facing agriculture including but not limited to animals, crops, technology, water and water usage, and urbanization. These issues will be discussed in how they relate to agriculture and ultimately the global food supply.

(3/45/0/0/0/0)

AGRI-2500
Applied Agriculture Internship

Prerequisite: GPA requirement of 2.0 in AGRI courses

Work experience is an important part of any educational program. This practicum is intended to give students experience in solving real world problems while working under the supervision of an employer and instructor. Students may be compensated for the hours worked and will receive one (1) credit for each 60 hours worked up to three (3) credits.

(1-3/0/0/0//0/60-180)

Art

ARTS-1010
Introduction to Visual Arts

This course provides an introduction into the nature of art - its subject matter, form, and content - and an historical survey of the world of painting, sculpture, and architecture utilizing the elements studied for stylistic analysis and interpretations. The aim of the course is appreciation through understanding.

(3/45/0/0/0/0)

ARTS-1050
Introduction to Art History & Criticism I

Satisfies a humanities requirement for AA or AS degree

This course is a survey of major works of art in all media from prehistory through the end of the Late Gothic period. Artistic styles will be discussed in relation to contemporary history, society, and culture. Individual works of art will be explored as well as the role of art and architecture in a cultural context.

(3/45/0/0/0/0)

ARTS-1060
Introduction to Art History & Criticism II

Satisfies a humanities requirement for AA or AS degree

This course provides a survey of major works of art in all media from the Renaissance through Post-Modernism.

Artistic styles will be discussed in relation to contemporary history, society, and culture. Individual works of art will be explored as well as the role of art and architecture in a cultural context.

(3/45/0/0/0/0)

ARTS-1200
Clay Animation

Claymation is a project-based course that will cover the basics of beginning clay animation video production. This course will take the student through various aspects of stop motion animation using a variety of materials and techniques. Emphasis will be on conceptualization, creativity, and visual aesthetics. Developing characters, concepts, storyboarding, and production of several stop animations will be accomplished. This course will offer beginning skill development in the use of software and equipment to develop storyboards and stop motion animation including creating, importing, and sequencing media elements to create multimedia presentations.

(3/30/30/0/0/0)

ARTS-1550
Drawing I

This is a foundation course for anyone who wishes to learn to draw. The course, using a creative approach, includes visual training, technical procedure, and essentials in perspective using a variety of subject matter and drawing media. Additional studio hours may be necessary to complete assignments.

(3/30/30/0/0/0)

ARTS-1580
Drawing II

This course is a continuation of ARTS-1550 with emphasis on implementing the knowledge and experience acquired previously in order to create works that demonstrate expertise in drawing. It will help develop and refine drawing techniques and concepts, as well as enhance the understanding of human anatomy for the purpose of artistic expression. Linear perspective, compositional structure, figure/ground integration, spatial perception, critical thinking, and analytical skills will all be emphasized. Additional studio hours may be necessary to complete assignments.

(3/30/30/0/0/0)

ARTS-1650
Design Fundamentals I

This is a lecture-laboratory course studying the basic elements of design and their qualities, theories, and psychology. Application is by problem-solving and exploration of the elements and principles in two dimensional means and in a contemporary mode of expression. Additional studio hours may be necessary to complete assignments.

(3/30/30/0/0/0)

ARTS-1680
Beginning Watercolor Painting

Prerequisite: ARTS-1550 or instructor consent

This course is a study of the watercolor medium in painting to include color, form, and texture. Though emphasis is on acquiring skill in the basic techniques, transparent and opaque, the course approach includes both disciplined realism and experimental creative expressionism. The student will work from objective reality and subjective imagination. Additional studio hours may be necessary to complete assignments.

(3/30/30/0/0/0)

ARTS-2400
Painting I

Prerequisite: ARTS-1550

This is a foundation course in which problems are assigned as a means of allowing the student to come to terms with the technical and aesthetic aspects of oil painting. Emphasis is on handling the medium through actual involvement with the mergence of form, both objective description and subjective expression. Additional studio hours may be necessary to complete assignments.

(3/30/30/0/0/0)

ARTS-2430
Painting II

Prerequisite: ARTS-2400

This course is a continuation of ARTS-2400 in which the student is expected to attempt more challenging work. Focus is on problems of composition and improving technical skill. Additional studio hours may be necessary to complete assignments.

(3/30/30/0/0/0)

ARTS-2450
Figure Drawing

Prerequisite: ARTS-1550 and ARTS-1580 or instructor consent

This course is a continuation of ARTS-1550 and ARTS-1580 with emphasis on the human figure, both as a means of personal expression and objective reality. A series of visual assignments will be completed with live models as

the subject. A variety of media will be used. Additional studio hours may be necessary to complete assignments.

(3/30/30/0/0/0)

ARTS-2460
Sculpture I

Prerequisite: ARTS-1580 or instructor consent

This course provides an introduction to 3-D design principles and technical aspects as applied to sculpture-making processes. Students are introduced to the process of creating 3-D sculptures, from conceptual drawing to the technical aspects of production. The sculptural 3-D form and its expression in clay, plaster, stone, wood, and metal will be the focus of study. Additional studio hours may be necessary to complete assignments.

(3/30/30/0/0/0)

ARTS-2600
Portfolio

Prerequisite: ARTS-1580 and ARTS-2430

This course will focus on preparing a cohesive body of work in a chosen medium or across media for a professional presentation. The course will emphasize individual investigation and discovery, as well as developing a personal style. Combining conceptual, critical, and creative thinking; strong technical and communication skills; and experimentation is strongly encouraged. Students will experience portfolio development as a process of continuous enhancement of self-awareness, learning and development. Additional studio hours may be necessary to complete assignments.

(3/30/30/0/0/0)

Automotive Technology

AUTO-1000
Intro to Automotive Technology

This class is an introduction to basic automotive technology for those individuals exploring the opportunity to become automotive mechanics or work in a related field. Students are exposed to a broad sampling of the various aspects of automotive technology in a hands-on environment.

(3/15/0/90/0/0)

AUTO-1100
Engine Repair I

This course covers types, designs, and theories of today's automobile, agricultural, and commercial gas and diesel engines. Engine components, their function, and relationship to each other; shop safety; hand tools; precision instruments; engine principles; and engine restoration are included. This class addresses the bottom part of the engine, including the engine block and rotating assembly.

(3/20/0/75/0/0)

AUTO-1110
Engine Repair II

Prerequisite: AUTO-1100

This course covers types, designs, and theories of today's automobile, agricultural, and commercial gas and diesel engines. Engine components, their function, and relationship to each other; shop safety; hand tools; precision instruments; engine principles; and engine restoration are included. This class addresses the top part of the engine, including cylinder heads and valve train.

(3/20/0/75/0/0)

AUTO-1120
Engine Removal & Reinstallation

This is an advanced-level course that provides the student with the necessary skills to perform engine removal and reinstallation in today's automobile. This class will incorporate use of specialized equipment and proper safety procedures will be followed.

(2/15/0/45/0/0)

AUTO-1150
Automotive Internet & Computer Skills

This course covers all phases of computer (PC) use including, but not limited to, the Internet as related to the automotive industry, use of ALLDATA On Demand systems, S/P2 online safety training, and other automotive-related programs as needed.

(2/30/0/0/0/0)

AUTO-1210
Auto Parts Specialist

This course covers auto parts distribution, salesmanship and merchandising, inventory control, catalog indexing and use, price levels, communications with the public and suppliers, and solving customer/employee relations.

(2/30/0/0/0/0)

AUTO-1215
Service Advisor Specialist

This course introduces the student to the day-to-day job responsibilities of a service advisor. There is a focus on communicating with the public and solving customer/employee relations. The course will also address

the management principles of human relations, employee motivation, and effective leadership practices.

(2/30/0/0/0/0)

AUTO-1235
Automotive Brake Systems

This course covers braking systems used in automotive, commercial, and agriculture vehicles. Emphasis is placed on braking system principles; wheel bearing service; and ABS components, operation, diagnosis, and service.

(4/30/0/90/0/0)

AUTO-1240
Suspension, Steering, & Alignment

This course covers suspension, steering, and wheel alignment used in automotive, commercial, and agriculture vehicles. Emphasis is placed on front and rear suspension, wheel balancing, spring and shock absorbers, steering systems (manual and power assist), and wheel alignment.

(3/30/0/45/0/0)

AUTO-1275
Automatic Transmission Fundamentals & Servicing

Co-requisite: AUTO-1300

This course will enable the student to understand the basic operation, maintenance, and in car servicing of an automatic transmission/transaxle. The class will cover the basic components and major sections of an automatic transmission/transaxle and methods of transmitting power through the use of fluid, clutches, bands, and planetary gear sets. Maintenance and in-vehicle repairs/service will also be covered. Student may supply shop work, but it is not mandatory.

(3/30/0/45/0/0)

AUTO-1290
Manual Transmissions & Differential Axles

This course emphasizes power trains, including the theory and shop practice of automotive, commercial, and agriculture vehicles. Manual transmission units and differential axles used in automobile, commercial, and agricultural vehicles are explained. Students may supply shop work, but it is not mandatory.

(3/30/0/45/0/0)

AUTO-1300
Advanced Automatic Transmissions

Co-requisite: AUTO-1275

This course is designed to enable the student to understand electronic automatic transmission and electronic torque converter operations. Automatic transmission removal and installation procedures and out-of-vehicle repairs are also covered.

(3/30/0/45/0/0)

AUTO-1330
Chassis Electrical Systems

This course covers the fundamentals of electricity, theory of electricity, and the proper use of electrical test equipment used for diagnosing electrical problems in the automotive field. The class will enable the student to test and diagnose electrical problems related to chassis electrical issues including the battery and starting system, charging system, cooling fans, and chassis related electrical wiring.

(3/30/0/45/0/0)

AUTO-1340
Automotive Body Electrical Systems

This course covers all types of electrical circuits and systems used in the automotive industry. The class will enable the student to understand the reading of electrical wiring diagrams, the proper repair procedures for both standard electrical circuits and CAN circuits, lighting (interior and exterior), circuit protection devices, horn operation, instrumentation, windshield wiper/washer operation, and supplemental restraint systems.

(3/30/0/45/0/0)

AUTO-1350
Automotive Heating & Air Conditioning

This is a course covering all phases of heating and air conditioning systems used in the automobile, commercial, and agriculture vehicle industry. Students may supply shop work, but it is not mandatory.

(4/45/0/50/0/0)

AUTO-1360
Automotive Air Conditioning R134-A

This course is designed to cover R-134A air conditioning systems used in the automobile, commercial, and agricultural vehicle industries. Upon successful completion of this course students will receive their Section 609 Refrigeration Certificate.

(1/15/0/0/0/0)

AUTO-1370
Ignition Systems

This course covers the different types of ignition systems used in the automotive industry. The class will enable the student to understand the operation and repair of the ignition system. This includes setting spark plug gap; oscilloscope usage; theory and fundamentals of electronic and PCM ignition systems, including DI, DIS, and COP. Also covered are basic engine mechanical testing, both compression and cylinder leakage. Special service tools will be introduced to the student for use in diagnosing ignition system related problems.

(3/30/0/45/0/0)

AUTO-1375
Fuel Systems

This course covers the types of fuel systems used in the automotive industry, excluding diesel-powered vehicles. The class will enable the student to understand the operation and repair of modern fuel systems, including the operation of the six circuits of the carburetor and types of fuel pumps, tanks and lines, rails, injectors, filters, and pressure regulators. Special service tools will be introduced to the student for the use in troubleshooting modern fuel systems related problems.

(3/30/0/45/0/0)

AUTO-1390
Computerized Engine Management Systems

Prerequisite: AUTO-1370

This course will enable the student to understand how computerized engine management systems are used to control fuel and ignition and maintain emissions of the automobile. This class will allow the student to use modern scan tools to diagnose problems within these different systems.

(3/30/0/45/0/0)

AUTO-1410
Emission Control Systems & Drivability

Prerequisite: AUTO-1375

This course will enable the student to understand all types of emission control systems used on the present-day automobile. The class will cover how automotive emission systems are used to reduce harmful environmental pollutants produced by the internal combustion engine. Special tools needed to test modern systems will be used.

(3/30/0/45/0/0)

AUTO-2500
Automotive Technology Internship

Prerequisite: Successful completion of 12 automotive technology credits and a 2.5 GPA in automotive technology coursework

Work experience is an important part of any educational program. This internship is intended to give students extended experience in solving real world problems while working under the supervision of an employer and instructor. All work is to be performed in accordance with industry standards and guidelines. Students may be compensated for the credits worked and will receive one (1) credit for each 60 credits worked up to three (3) credits.

(1-3/0/0/0/0/60-180)

AUTO-2600
High Performance Vehicle Construction I

Prerequisite: Due to the technical nature of the work in this course, the following criteria are required for enrollment:

- ***An AAS degree in Auto Body Technology or***
- ***The completion of the first two semesters of an Auto Body Technology AAS program and concurrent enrollment in the 3rd semester as outlined in the catalog is required.***
- ***A GPA of 3.0 in the related technical coursework.***
- ***Or consent of the instructor.***

This course is designed to allow the student the opportunity to bring together all of the skills learned during the first year of Automotive coursework. The student will have the chance to see how all the competencies relate and work together while constructing a high performance vehicle. This course will include the organization and management of a vehicle build and the construction of sub-assemblies.

Credit cannot be earned for both AUTB-2600 and AUTO-2600.

(3/15/0/90/0/0)

AUTO-2700
High Performance Vehicle Construction II

Prerequisite:

- ***AUTO-2600 or consent of the instructor***

This course builds upon the skills used in AUTO-2600 as the project enters the final stages of completion, to include engine, drivetrain final assembly, and inspection. The student will be able to see, in a practical way, the application of the skills learned during the first year of automotive coursework. The student will continue to see

how all the competencies relate and work together while completing the construction of a high performance vehicle. This course will continue to include the organization and management of a vehicle build to completion.

Credit cannot be earned in both AUTB-2700 and AUTO-2700.

(3/15/0/90/0/0)

Aviation Maintenance

AVIA-1030
Ground School for Pilots

This course prepares the student for both the private and commercial pilot written tests. Topics such as aerodynamics, aircraft operation, aircraft weight and balance, meteorology, navigation and computation, and FAA regulations are covered in sufficient depth that the successful student can pursue an aviation career or flying goal.

(3/45/0/0/0/0)

AVIA-1101
Ground Operations & Regulations

This course will introduce the student to the different fuels, procedures in refueling, ground handling, and safety precautions for towing and taxiing aircraft. Methods of tie down, removing ice, starting engines, and fire protection will also be covered. Students will be introduced to Title 14 of the Federal Code of Regulations and instructed in the use of forms, record keeping, airworthiness directives, certificates, and the identification and use of manufacturer's maintenance manual.

(3.5/37.5/0/45/0/0)

AVIA-1102
Applied Mathematics for Aviation

The student will be introduced to basic math; use negative and positive numbers; apply formulas to determine area and volume; solve ratio, proportion, and percentage problems; extract roots; and raise numbers to a given power. Includes an introduction to basic physics covering matter, fluids, work, power, energies, kinetic theory of gases, Bernoulli's Theory, and simple machines.

(3.5/45/0/22.5/0/0)

AVIA-1105
Aircraft Drawing, Fluid Lines, & Nav-Comm Systems

The student will be introduced to reading blue prints, graphs, and charts; interpret drawings and schematics as well as draft a simple sketch; identify rigid and flexible lines and the procedures to fabricate both types; and aircraft navigation and communication systems including types of antennas. The effects of static electricity and methods of protection will be included in this study.

(3/30/0/45/0/0)

AVIA-1106
Materials, Processes, & Corrosion

This course will introduce the materials that are used in the construction of an aircraft and identification of select aircraft hardware. Included are a review of basic heat treat processes, methods to inspect aircraft structures, and precision measurements to determine the air worthiness of the aircraft. Discussed are different types of corrosion, as well as their causes and preventions. Provides an overview of cleaning agents and their use with various materials and how to apply protective coatings.

(3.5/37.5/0/45/0/0)

AVIA-1109
Applied Electrical Science for Aviation Maintenance

This course will introduce the student to sources of electrical energy, electron theory, and Ohm's Law. Electrical circuit diagrams will be studied along with multimeter use and battery servicing and testing.

(4.5/52.5/0/45/0/0)

AVIA-1140
Airframe Phase IV

This course includes a study of several typical landing gear systems. Topics include shock absorbing systems, wheel alignment, brakes, anti-skid systems, wheels, bearings, tires, and tire balance. Safe jacking procedures are taught along with retraction checks. Emphasis is on safe work habits and procedures.

(3/30/0/45/0/0)

AVIA-1150
Airframe Phase V

In this course, students learn procedures for the assembly and rigging of an aircraft using the manufacturer's maintenance data and Type Certificate Data Sheets. Fixed and rotor wing is emphasized on flight characteristics and

stability. Flight control operation and movement, as well as helicopter operation and rigging, are covered in this course. Aircraft fuels, fuel system inspection, maintenance repair, and safety are also included.

(3/30/0/45/0/0)

AVIA-1160
Airframe Phase VI

This course provides a study of the vapor-cycle and air recycling and cooling in conjunction with cabin pressurization systems used in aircraft. Aircraft heating and oxygen system operations, maintenance, and repair complete the study of the environmental systems. Inspection of the airframe, in order to maintain an airworthy aircraft, meeting requirements of the Federal Aviation Administration, and the airframe manufacturer complete this course of study.

(3/40/0/55/0/0)

AVIA-1202
Airframe Structures I

The student will be introduced to aircraft structures, including riveting, and special fasteners for metallic, bonded, and composite structures. Also included in this course are how to inspect, check, service, and repair windows, doors, and interior furnishings.

(2.5/15/0/67.5/0/0)

AVIA-1203
Airframe Structures II

The student will continue exploring aircraft structures. This includes metal alloys used, development of sheet metal skills and metal forming and repairs. This class allows the opportunity to develop skills through the completion of numerous hands-on projects.

(2/7.5/0/67.5/0/0)

AVIA-1204
Airframe Structures III

This course introduces the student to the wood structures used in aircraft construction. A review of the inspection of wood to determine airworthiness is included. This course also introduces the students to sheet metal used in the fabrication of aircraft. Repair of sheet metal to ensure airworthiness is stressed. Materials used in composite construction and the health and safety concerns related to them are also covered.

(3/30/0/45/0/0)

AVIA-1205
Airframe Structures IV

This course introduces the student to the different fabrics, paints, and finishes included in the aircraft construction. This includes application of these products as well as inspection to ensure airworthiness. Also included is technical information related to welding of aluminum, stainless steel, magnesium, titanium, and steel. Soldering, brazing, gas, and arc welding will also be studied.

(2.5/26.25/0/33.75/0/0)

AVIA-1210
Powerplant Phase I

In this course, the student is introduced to the principles of heat engines, energy transformation, volumetric efficiency, and the 4-stroke 5-event engine. Factors affecting power, requirements, and configurations of piston engine construction methods, materials, and nomenclature are covered. The student is able to explain piston engine theory, energy transformation, as well as calculate horse power, valve timing, and compression ratios. The student is also able to explain factors affecting volumetric efficiency and identify all reciprocating engine parts.

(3/30/0/45/0/0)

AVIA-1220
Powerplant Phase II

This course is designed to develop the competence necessary to maintain, troubleshoot, and repair both reciprocating/turbine engine ignition and starting systems. Students study low and high tension ignition systems, repair magnetos and ignition harnesses, test spark plugs, use the appropriate manuals, and test equipment to perform these functions. The ignition system is properly installed on an operational engine, which the student starts and operates. Correct troubleshooting procedures are observed.

(3/30/0/45/0/0)

AVIA-1230
Powerplant Phase III

This course introduces the theory and operation of fuel metering used in aviation powerplants, as well as the fuel systems that deliver the fuel to the metering device. A comprehensive study of aviation fuels is also covered. Fire protection systems are included in this course of study. Inspection, check, service troubleshooting and repair of these systems concludes the course.

(3/30/0/70/0/0)

AVIA-1240
Powerplant Phase IV

This course is dedicated to the inspection, repair, and development of overhaul skills, assembly, and return to service procedures. The use of overhaul data and inspection techniques, including non-destructive inspections, are emphasized. Items covered include principles and characteristics of lubricants, their importance to engine life, and how maintenance procedures may increase the life of a piston engine. The correct lubricant for an engine and accessories is discussed, and engine data is researched to locate information related to using the correct products.

(6/60/0/90/0/0)

AVIA-1250
Powerplant Phase V

In this course, the student is introduced to the procedures used in the inspection of turbine and reciprocating engines. The use of applicable regulations and manufacturer's guidelines are covered. Other topics covered include the principles of engine electrical systems; the components, types, controls, and wiring systems; wiring diagrams; and using instrumentation to diagnose system or component failure. Instruction on propeller theory, governing systems, ice protection, and maintenance and repair are included in this course.

(6/60/0/90/0/0)

AVIA-1260
Powerplant Phase VI

This course reviews the history and development of the jet engine and it's operating principles. The Brayton cycle is compared to the four-stroke engine in thermodynamics and components. A study of an engine compressor and turbine section design and efficiency provide the student with a comprehensive understanding of the engine. Variations of the turbine engine are reviewed as auxiliary power units, unducted fans, turboprop, turbo shaft, and high bypass fans. Reciprocating and turbine engine induction, exhaust, and instrumentation complete this course.

(6/70/0/120/0/0)

AVIA-1301
Airframe Systems I

This course will introduce aircraft instrument construction and standby systems. Engine instruments and maintenance of these systems will be included in this course of study. Includes exposure to the warning systems of the aircraft, anti-skid brake controls, and anti-collision systems. Maintenance procedures will be included in this phase of study.

(1.5/15/0/22.5/0/0)

AVIA-1302
Airframe Systems II

This course provides an introduction to aircraft electrical systems and their components. This includes electrical schematics, batteries and test equipment, inspections, troubleshooting, and maintenance. This course outlines the different classes of fires, types of detection systems, and numerous extinguishing agents. It also includes a discussion of repair techniques related to fires.

(3.5/37.5/0/45/0/0)

AVIA-1303
Airframe Systems III

This course covers the principles of the hydraulic systems used in aircraft. Mechanical advantages and the types of fluids and seals used are covered. The course Includes a study of all pneumatic systems in large and small aircraft. Inspection of the airframe ice and rain control systems are also covered.

(3.5/37.5/0/45/0/0)

AVIA-2302
Airframe Systems IV

This course covers aircraft wheels, tires, brake assemblies, and landing gear. Maintenance manuals and service bulletins will be used as reference for inspections and maintenance of landing gear and related systems.

(3/30/0/45/0/0)

AVIA-2305
Airframe Systems V

This course introduces the assembly of aircraft and offers a review of aerodynamics, control surface functions, structure alignment, control cables, and hardware identification. Also covered are the principles of fuel systems operations, inspection and operational checks, and the servicing and troubleshooting of the aircraft fuel system.

(3/30/0/45/0/0)

AVIA-2307
Airframe Systems VI

This course covers the 100-hour, annual, and progressive inspection procedures. A review of how to research and use written data to ensure aircraft airworthiness is included. This course introduces cabin heating, cooling, and ventilation systems, and includes the air-cycle, vapor-

cycle, air conditioning, cabin pressurization, and oxygen systems.

(4/48.75/0/33.75/0/0)

AVIA-2401
Engine Cooling & Reciprocating Theory

This course covers the principles of heat engines, energy transformation, and the four-stroke engine. Factors affecting power, volumetric efficiencies, construction methods, materials, and nomenclature will also be covered. Methods of cooling in piston and turbine engines will be taught along with troubleshooting and maintenance of the cooling system for aircraft engines.

(3/30/0/45/0/0)

AVIA-2402
Powerplant: Reciprocating Engine Maintenance

This course covers the techniques required to determine engine condition, disassemble, inspect, check and repair a reciprocating engine. Students are instructed in the use of manufacturers' data and precision tools to enable them to repair and replace parts and re-assemble the engine for block testing.

(4/37.5/0/67.5/0/0)

AVIA-2403
Powerplant: Turbine Engines

This course includes a presentation of internal combustion engine theory as it relates to an aviation turbine engine and other thrust engines. Discussion related to nomenclature, construction techniques, and gas flows are included in this course. Students are coached in the inspection of engine parts for damage and failures along with discussions related to factors impacting turbine engine life. Also covered are the construction techniques, general operations, testing methods, and uses of the auxiliary power units. The turbine-driven unducted fan or ultra-high bypass propeller fan are covered in this class. Information related to fuel efficiency and the fan's ability to power the medium-sized air carrier aircraft is included.

(4/45/0/45/0/0)

AVIA-2500
Aviation Internship

The internship is a cooperative agreement with Western Nebraska Community College and an industry partner. This internship program provides valuable hands-on learning experiences in aspects of the operations of the industry partner. The internship program provides students the opportunity to apply information from classes to real life experiences. Students are able to explore career opportunities that are available and gain valuable work experience.

(3/0/0/0/0/180)

AVIA-2501
Powerplant Systems I

This course covers several fire detection and protection systems, explaining the theory and operation of each. How to inspect, maintain, and service these systems is the focus. Emphasis is placed on safety precautions related to the systems. The course also includes information related to the maintenance, repair, and service of the fuel and fuel metering systems used in reciprocating and turbine engines.

(4/45/0/45/0/0)

AVIA-2502
Powerplant Systems II

This course covers how to use appropriate data to make a determination of airworthiness for an aircraft engine. It includes a review of the different types of inspections and methods of returning an engine to service. Also covered are how to properly record all the steps in the maintenance process for the permanent record, the operating principles of engine instrument systems, and an introduction to the various types of induction systems for piston and turbine engines, including subsonic and supersonic induction systems.

(4.5/45/0/67.5/0/0)

AVIA-2503
Powerplant: Electrical

This course is an in-depth study of engine electrical generators, motors, regulators, and electrical wiring. Included in this course is the interpretation of electrical diagrams, use of testing equipment, and troubleshooting of electrical systems. Demonstration of the inspection, maintenance, and repair of engine electrical systems are also included in this course.

(3/30/0/45/0/0)

AVIA-2504
Powerplant: Lubrication

This course introduces the theories of lubricants and engine lubrication and construction. The course covers the different types of lubricating oils, engine maintenance, and troubleshooting of the lubricating systems. The student is coached in the use of maintenance data to determine engine condition and airworthiness.

(1.5/15/0/22.5/0/0)

AVIA-2505
Engine Ignition

This course is a study of reciprocating and turbine engine ignition and starting systems. Inspection, maintenance, troubleshooting, and repair of these systems are covered.

(3.5/37.5/0/45/0/0)

AVIA-2511
Powerplant Propellers

The course is a complete presentation of piston and turbine powered propellers and their auxiliary systems. Nomenclature, theory of operation, inspection, maintenance, troubleshooting, and repair procedures are also covered.

(3/30/0/45/0/0)

Biological Sciences

BIOS-1000
Basic Nutrition

This course is intended for students who need to learn basic nutritional information. Included are the basic nutrients, their functions, food sources, and the effect of deficiencies.

(3/45/0/0/0/0)

BIOS-1010
General Biology

Co-requisite: BIOS-1010L

This course covers fundamental processes of cells and organisms, cell structure, genetics, biotechnology, evolution, classification, diversity, and interaction of organisms at the molecular, cellular, organismic, ecosystem, and biosphere level. It is designed as both a course for non-majors and as a foundation course for those planning additional work in biology. Includes a lab.

(4/45/30/0/0/0)

BIOS-1010L
General Biology Lab

Co-requisite: BIOS-1010

BIOS-1100
Environmental Science

Co-requisite: BIOS-1100L

This course presents a background on ecology as a basis for understanding the pollution problems in the environment. Topics covered include air, water, soil, solid waste, noise, and radiation pollution. Also included is a discussion of population growth, wildlife management, and controlling agencies involved in environmental protection.

(4/45/30/0/0/0)

BIOS-1100L
Environmental Science Lab

Co-requisite: BIOS-1100

BIOS-1160
Introduction to Human Anatomy & Physiology

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

Co-requisite: BIOS-1160L

This is an introductory course in human body structure and function. Emphasis is placed on anatomy, with attention also given to physiology, as related to the ten body systems.

Credit cannot be received for both BIOS-1160 and BIOS-2250.

(4/45/30/0/0/0)

BIOS-1160L
Introduction to Human Anatomy & Physiology Lab

Co-requisite: BIOS-1160

BIOS-1300
General Botany

Prerequisite: BIOS-1010

Co-requisite: BIOS-1300L

This course covers structure and taxonomical relationships among the major plant groups in addition to investigations of their physiological processes.

(4/45/30/0/0/0)

BIOS-1300L
General Botany Lab

Co-requisite: BIOS-1300

BIOS-1380
General Zoology

Prerequisite: BIOS-1010

Co-requisite: BIOS-1380L

Characteristics and relationships of the major animal groups from protozoa through the mammals are discussed.

(4/45/30/0/0/0)

BIOS-1380L
General Zoology Lab
Co-requisite: BIOS-1380

BIOS-2000
Introduction to Scientific Research
Prerequisite: BIOS-1010, CHEM-109, ENGL-1010, GEOL-1010, or PHYS-1300

This course prepares students for a career in scientific research. Students begin to identify their goals as scientists and discover pathways to meet these goals. Students also become more acquainted with the processes used in scientific discovery. Over the course of the semester, students identify centers of scientific research in areas of interest, prepare curriculum vitae, conduct a literature review, and communicate research plans in both written and oral form.

(1/15/0/0/0/0)

BIOS-2050
Nutrition & Diet Therapy
Prerequisite: BIOS-1010, BIOS-1160, BIOS-2250, or LPNR-1110

Co-requisite: BIOS-1160 or LPNR-1110

This course is intended for students who need to learn basic nutritional information for the medical field. Included are the basic nutrients and their functions, food sources, and the effect of deficiencies. There is an emphasis on correct information to combat food faddism. Planning for normal nutrition through the life cycle and special needs of the elderly, children, and pregnant women is discussed, as well as sanitation of food, legislation, and labeling as it affects the food supply.

(3/45/0/0/0/0)

BIOS-2051
Diet Therapy
The purpose of this course is to provide an additional hour of Nutrition/Diet Therapy to an incoming student who has completed a 2-hour nutrition class at another institution. The WNCC LPN prerequisite is a three (3) credit hour class that includes both nutrition and diet therapy.

(1/15/0/0/0/0)

BIOS-2120
Genetics
Prerequisite: BIOS-1010 or BIOS-2250

Co-requisite: BIOS-2120L

This course is a study of inheritance patterns, gene composition, variations, and action. Mechanisms of transmission, molecular genetics, and population genetics are covered. Practical applications in medicine, agriculture, and biotechnology and hands-on laboratory experience with plants, animals, microbes, and electrophoresis are provided.

(4/45/30/0/0/0)

BIOS-2120L
Genetics Lab
Co-requisite: BIOS-2120

BIOS-2250
Human Anatomy & Physiology I
Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

Co-requisite: BIOS-2250L

Topics covered in this course include an introduction to human anatomy and physiology, including the chemical basis of life; cells; cellular metabolism, tissues; skeletal, integumentary, joint, muscular, and nervous systems; and somatic and special senses.

Credit cannot be received for both BIOS-1160 and BIOS-2250.

(4/45/30/0/0/0)

BIOS-2250L
Human Anatomy & Physiology I Lab
Co-requisite: BIOS-2250

BIOS-2260
Human Anatomy & Physiology II
Prerequisite: BIOS-2250

Co-requisite: BIOS-2260L

This course is a continuation of BIOS-2250. Topics covered include the structure and function of the circulatory, respiratory, digestive, endocrine, reproductive, and excretory systems. Also included is a study of the fluid electrolyte and pH balances of the body.

(4/45/30/0/0/0)

BIOS-2260L
Human Anatomy & Physiology II Lab
Co-requisite: BIOS-2260

BIOS-2460
Microbiology

Prerequisite: BIOS-1010, BIOS-1160, BIOS-2250, or LPNR-1110

Co-requisite: BIOS-2460L

This course is a study of microbiology with emphasis on structure of microbial cells, their nutrition and growth, control of growth, genetics and genetic engineering, metabolic and biosynthesis activity, and host-parasite interactions. Accompanying laboratory study emphasizes microbiological techniques including microbial control and manipulation.

(4/45/30/0/0/0)

BIOS-2460L
Microbiology Lab

Co-requisite: BIOS-2460

BIOS-2500
Biological Sciences Internship

Prerequisites:

- Declared AS major
- 12 hours of science credit (BIOS, CHEM, or PHYS, with BIOS preferred)
- GPA of 2.5 in science courses

This internship is a cooperative agreement with WNCC and community partners and provides valuable hands on learning experience. The student is fulfilling academic requirements of an established program in the biological sciences, pre-veterinary medicine, horticulture, or related disciplines. The internship gives students the opportunity to apply information from classes to real life experiences and explore career opportunities, and gain valuable work experience, which can prove to be very valuable in the job market if the student intends to pursue a career in the biological sciences upon graduation.

Students may be compensated for the hours worked and will receive one (1) credit for each 60 hours worked up to three credits.

This course may be repeated for a total of 12 credits.

(1-3/0/0/0/0/60-180)

Business Administration

BSAD-1050
Introduction to Business

This course offers an introductory study and overview of the role of business in society as well as a discussion of the various disciplines of business including an overview of business organization, management, marketing, human resource management, and finance. There is also a study and discussion of various strategies for success of specific public and private firms as well as small business. Business vocabulary is used to understand, analyze, and interpret business news and information.

(3/45/0/0/0/0)

BSAD-1210
Business Communications

Prerequisite: ENGL-0050 or ACCUPLACER® (or other appropriate placement test)

The student is introduced to the foundations of written and verbal communication. Students practice the writing process in letters, memos, emails, reports, and proposals.

Presentation skills are introduced. The employment process is covered. Keyboarding skills are recommended.

(3/45/0/0/0/0)

BSAD-2070
Salesmanship

This course is designed to introduce the student to sales in the marketing world. Emphasis is placed on selling as a rewarding career, the role of the salesperson, types of selling jobs, and consumer relationships.

(3/45/0/0/0/0)

BSAD-2100
Managerial Finance

Co-requisite: ACCT-1210

This class is designed to provide the student with the basic knowledge of finance. It provides the principles and tools needed to make important decisions in finance, namely capital budgeting and financing decisions. The major topics include time value of money, stock and bond valuation, investment decision criteria, the capital asset pricing model (CAPM), and cost of capital. This class provides students with a broad overview of the field of finance.

(3/45/0/0/0/0)

BSAD-2110
Retailing

This course emphasizes the managerial study of retailing, plus the organization, structure, and distribution channels of retail agencies.

(3/45/0/0/0/0)

BSAD-2120
Advertising

This course is designed to introduce the student to major issues in modern advertising promotion.

(3/45/0/0/0/0)

BSAD-2220
Supervisory Management

This course provides students with an understanding of the management functions supervisors must perform. Students receive solid theory and practical application that reinforces the theme: the essence of supervisory management is working with and through people. Through comprehensive cases and illustrations, the student examines the interrelationship of key management concepts.

(3/45/0/0/0/0)

BSAD-2420
Career Development Capstone

This course teaches the student how to prepare a professional-looking resume, cover letter, and reference sheet as well as how to address necessary follow-up correspondence in the employment process. Interviewing, business etiquette and protocol, salary negotiation, effective telephone techniques, portfolio development and use, projecting a professional image, human relation skills, and personality-type indicators are additional topics featured. Keyboarding skills are recommended.

(3/45/0/0/0/0)

BSAD-2450
Business Ethics

This course is an analysis of how business and society interact through the study of consumerism, technology, and ethical and moral conviction. It is also an introduction to the concept of business ethics, an overview of major ethical issues that businesses face today, and a discussion of moral philosophy through an understanding of classical and contemporary ethical theories.

(3/45/0/0/0/0)

BSAD-2500
Business Law I

This is a course designed to be of practical value regardless of the subsequent occupation of the student. The course covers social forces and the law, classes and sources of law, agencies for enforcement, and court procedure. The entire area of contracts—offer, acceptance, consideration, illegality, interpretation, transfer of rights, discharge, and breach of contract—is discussed.

(3/45/0/0/0/0)

BSAD-2520
Principles of Marketing

This course is a study of the development of an effective marketing program including consumer behavior, product, pricing, distribution, and promotional strategies.

(3/45/0/0/0/0)

BSAD-2540
Principles of Management

This course provides an introduction to management theory and practice with emphasis on the primary functions of planning, organizing, leading, and controlling. Topics will include the ever-changing challenges and opportunities within the management field.

(3/45/0/0/0/0)

BSAD-2600
International Business

This course provides a broad overview of the field of international business and associated activity and theory. Students will be introduced to the essential factors that influence global commerce. These include the global economic and financial environment, international institutions, trade policy issues, major international environmental forces (e.g., financial, economic and socioeconomic, physical, socioeconomic, political, legal, etc.), and strategic management issues related to doing business in the international environment.

(3/45/0/0/0/0)

BSAD-2650
E-Commerce

This course is designed to study the application of technology to business basics. The course introduces students to the use of the internet to create an e-world where business decisions revolve around e-entrepreneurship, e-business economics, e-communications, e-marketing, e-commerce finance, e-retailing, e-business consumers, e-commerce promotion, and e-commerce distribution.

(3/45/0/0/0/0)

Business Technology

BSTC-1100
Personal Finance

This is a basic course in the management of personal finances with emphasis given to financial planning, budgets, credit management, savings, tax planning, insurance, home-ownership, and investments.

(3/45/0/0/0/0)

BSTC-1500
Business Mathematics

Prerequisite: ACCUPLACER® (or other appropriate placement exam)

This course consists of instruction in the fundamentals of mathematics as applied to business situations. The course includes the study of fundamental mathematics and calculations for finance and accounting.

(3/45/0/0/0/0)

BSTC-2330
Records Management

Each phase of the life of records is studied from record creation to disposal. Indexing systems, equipment, supplies, and physical conditions for various types of records are reviewed. This course stresses the importance of record control as an administrative function. A manual packet as well as a computerized database simulation is covered for a thorough study.

(3/45/0/0/0/0)

BSTC-2340
Office Management

In this course, the student learns how to plan and organize an office, how to control office operations, and how to work effectively with people. Students also learn the fundamentals of time, conflict, and stress management.

(3/45/0/0/0/0)

BSTC-2500
Office Internship I

Work experience is an important part of any educational program. This course offers a student, referred to as an "intern," the opportunity to gain valuable hands-on experience in an office environment by working in a supervised office position. Students are compensated for their credits worked and receive one (1) credit for each 60 credits worked up to three (3) credits.

(1-3/0/0/0/0/60-180)

BSTC-2540
Office Internship II

Work experience is an important part of any educational program. This course offers a student, referred to as an "intern," the opportunity to gain valuable hands-on experience in an office environment by working in a supervised office position. Students are compensated for their credits worked and receive one (1) credit for each 60 credits worked up to three (3) credits.

(1-3/0/0/0/0/60-180)

Chemistry

CHEM-1050
Introductory Chemistry

Prerequisite: MATH-0160 and ENGL-0070 or ACCUPLACER® (or other appropriate placement exam)

Co-requisite: CHEM-1050L

This is an introductory course stressing concepts and qualitative understanding of the principles of chemistry. This course is designed for students requiring only one (1) semester or one (1) year of chemistry and is recommended for students in agriculture, forestry, home economics, nursing, environmental technology, and other non-majors. It is not recommended for pre-engineering, pre-medicine, pre-dental, pre-pharmacy, or other majors requiring more than two (2) semesters of chemistry.

(4/45/30/0/0/0)

CHEM-1050L
Intro to Chemistry Lab

Co-requisite: CHEM-1050

CHEM-1090
General Chemistry I

Prerequisite: MATH-1010 or ACCUPLACER® (or other appropriate placement exam)

Co-requisite: CHEM-1090L

This course offers a study of basic chemical concepts including atomic structure, stoichiometry, reactions in aqueous solution, chemical periodicity, gases, and chemical bonding and molecular structure and thermochemistry. One (1) year of high school chemistry is recommended.

(4/45/30/0/0/0)

CHEM-1090L
General Chemistry I Lab

Co-requisite: CHEM-1090

CHEM-1100
General Chemistry II
Prerequisite: CHEM-1090
Co-requisite: CHEM-1100L
This course is a study of rates of reaction, chemical equilibria, environmental chemistry, thermodynamics, electrochemistry, and nuclear chemistry.
(4/45/30/0/0/0)

CHEM-1100L
General Chemistry II Lab
Co-requisite: CHEM-1100

CHEM-2510
Organic Chemistry I
Prerequisite: CHEM-1100
Co-requisite: CHEM-2510L
This course is a study of the fundamentals of organic chemistry with emphasis on nomenclature, structure, stereochemistry, physical properties, and reactions and reaction mechanisms for the various series of aliphatic and aromatic compounds.
(4/45/45/0/0/0)

CHEM-2510L
Organic Chemistry I Lab
Co-requisite: CHEM-2510

CHEM-2520
Organic Chemistry II
Prerequisite: CHEM-2510
Co-requisite: CHEM-2520L
This course is a continuation of CHEM-2510.
(4/45/45/0/0/0)

CHEM-2520L
Organic Chemistry II Lab
Co-requisite: CHEM-2520

Collision Repair & Refinish Technology

AUTB-1000
Collision Repair Tools & Safety
This is an entry-level class designed to provide the student with information on how to identify potential hazards in the auto body field and the procedures necessary to perform repairs in a safe and efficient manner. The course will also train the students in correct tool nomenclature, selection, and usage.
(1/15/0/0/0/0)

AUTB-1005
Refinish Equipment & Environmental Practices
This is an entry–level class designed to provide the student with knowledge related to identifying correct environmental practices in the use and disposal of auto refinish materials. The course will cover procedures necessary to perform refinish repairs in a safe and efficient manner. This course will also train the student in correct tool nomenclature, selection, and usage when refinishing a vehicle.
(1/15/0/0/0/0)

AUTB-1015
Basic Metal Repair
Co-requisite: AUTB-1100
This technical course covers the basic damage conditions resulting from impact, its classification, physical effect, analysis, and methods of repair. This course also covers the basic repair of sheet metal and introduces the use of the basic tools required in straightening operations.
(3/30/0/45/0/0)

AUTB-1100
Non-Structural Panel Alignment
Co-requisite: AUTB-1000
This is an entry-level class into the auto body field. The student will learn the different methods of auto construction used by auto manufacturer and how to align and replace bolts on body components.
(3/30/0/45/0/0)

AUTB-1200
Plastics & Adhesives
This course is designed to introduce the student to the various types of plastics used in the automotive industry. It will show how to identify the type of plastic/s and the methods employed to repair these plastics.
(3/30/0/45/0/0)

AUTB-1220
Electrical & Mechanical Components
This course covers the electrical and mechanical systems that might be damaged in a collision. It also covers the personal restraint systems that are currently used by automakers. This includes the supplemental inflatable restraints (air bags) in use on newer model cars and light

trucks. The student learns the proper methods of diagnosing and repairing the electrical and mechanical systems on vehicles.

(3/30/0/45/0/0)

AUTB-1240
Special Finishes

Prerequisite: AUTB-2170

This is a special course designed for the student who has already taken AUTB-1170 and AUTB-2170 and is interested in learning the skills required to produce custom paint finishes. The student learns about the methods of design, application of graphic designs, TRI-STAGE paint systems, and some basic airbrush techniques.

(3/30/0/45/0/0)

AUTB-1320
Refinish Preparation

Co-requisite: AUTB-1005

This is an entry-level course into automotive paint and refinishing. The student will learn how to evaluate the surface and choose the proper methods and materials to refinish cars and light trucks. This course will cover the methods used to prepare the different substrates used on modern vehicles.

(3/30/0/45/0/0)

AUTB-1330
Refinish Materials & Application

Co-requisite: AUTB-1320

This course will advance the student further into the area of automotive paint and refinishing. The student will learn how to identify, select and apply the proper top coats to refinish cars and light trucks. This course will cover the setup and use of refinish equipment to refinish the different substrates used on modern vehicles.

(3/30/0/45/0/0)

AUTB-2010
Advanced Metal Repair

Co-requisite: AUTB-1015

This technical course covers the basics of installing metal patch panels, pre-made or fabricated, to repair areas affected by impact and corrosion. This course also covers the different types of joining methods used to install these panels.

(3/30/0/45/0/0)

AUTB-2050
Collision Forces Theory & Damage Identification

Prerequisite: AUTB-2300 highly recommended

This is an advanced course that builds upon the knowledge gained in AUTB-2300 to identify and understand the forces that are involved in a collision, how they travel through the vehicle and relate to damage in unitized and body over frame vehicles.

(3/30/0/45/0/0)

AUTB-2300
Welded Panel Replacement & Corrosion Protection

Co-requisite: AUTB-2010

This course will cover the removal and installation of welded panels, such as quarter panels, roof skins, door skins and other non-structural weld-on panels. It will also provide information and installation methods needed to restore the corrosion protection applied by the vehicle manufacturer to insure a safe and lasting repair.

(3/30/0/45/0/0)

AUTB-2330
Color Theory & Finish Matching

Co-requisite: AUTB-1330

This course is designed to take the student one step further in the development of paint and refinish skills. The student will learn to match colors, as well as the finish texture of the final product to match the increasingly difficult colors used by auto manufacturers. This course will also begin to develop the skills necessary to meet the demands of customers.

(3/30/0/45/0/0)

AUTB-2340
Advanced Paint Application

Co-requisite: AUTB-2330

This course is designed to take the student one step further in the development of paint and refinish skills. The student will learn to use new spray techniques to match the increasingly difficult colors used by auto manufacturers. The course will also provide the skills needed to identify and correct paint defects already present on the vehicle or those that can occur during the paint application process.

(3/15/0/45/0/0)

AUTB-2350

Structural Analysis & Straightening Equipment

Co-requisite: AUTB-2050

This course builds upon the knowledge gained in AUTB-2050. It will cover the make-up of a vehicle chassis and methods used to locate and identify the different types of damage that can occur to the structure/frame. The student will be introduced to manual and computerized measuring systems as well as various types of frame straightening equipment.

(3/30/0/45/0/0)

AUTB-2420

Structural Repair Processes

Prerequisite: AUTB-2350

This course is designed to take the student to a more advanced, hands-on level of the procedures involved in repairing the structural components of full frame and unibody vehicles. Students will sharpen the skills learned in AUTB-2350, allowing them to be proficient in identifying and reversing the effects of a collision.

(3/30/0/45/0/0)

AUTB-2450

Structural Component Replacement

Co-requisite: AUTB-2420

This course will lead the student through the completion of a structural repair by introducing procedures needed to replace structural components after the frame has been straightened. It will demonstrate the importance of accurate measuring and straightening of the vehicle's structure to ensure proper fit and alignment of structural replacement components.

(3/30/0/45/0/0)

AUTB-2500

Auto Body Technology Internship

Prerequisite: Successful completion of 12 auto body technology credits and 2.5 GPA in auto body technology coursework

Work experience is an important part of any educational program. This internship is intended to give students extended experience in solving real world problems while working under the supervision of an employer and instructor. All work is to be performed in accordance with industry standards and guidelines. Students may be compensated for the credits worked and will receive one (1) credit for each 60 credits worked up to three (3) credits.

(1-3/0/0/0/0/60-180)

AUTB-2600

High Performance Vehicle Construction I

Prerequisite: Due to the technical nature of the work in this course, the following criteria are required for enrollment:

- ***An AAS degree in Auto Body Technology or***
- ***The completion of the first two semesters of an Auto Body Technology AAS program and concurrent enrollment in the 3rd semester as outlined in the catalog is required.***
- ***A GPA of 3.0 in the related technical coursework.***
- ***Or consent of the instructor.***

This course is designed to allow the student the opportunity to bring together all of the skills learned during the first year of Auto Body coursework. The student will have the chance to see how all the competencies relate and work together while constructing a high performance vehicle. This course will include the organization and management of a vehicle build and the construction of sub-assemblies.

Credit cannot be earned in both AUTB-2600 and AUTO-2600.

(3/15/0/90/0/0)

AUTB-2700

High Performance Vehicle Construction II

Prerequisite: AUTB-2600 or consent of the instructor

This course builds upon the skills used in AUTB-2600 as the project enters the final stages of completion, to include; body, paint, final assembly, and inspection. The student will be able to see, in a practical way, the application of the skills learned during the first year of Auto Body coursework. The student will continue to see how all the competencies relate and work together while completing the construction of a high performance vehicle. This course will continue to include the organization and management of a vehicle build to completion.

Credit cannot be earned in both AUTB-2700 and AUTO-2700.

(3/15/0/90/0/0)

Criminal Justice

CRIM-1010
Introduction to Criminal Justice

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course offers an overview of the history, development, and philosophies of crime control within a democratic society. It examines the criminal justice system with emphasis on the police, the prosecution and defense, the courts, and the correctional agencies.

(3/45/0/0/0/0)

CRIM-1015
Introduction to Jail Operations

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course is designed to help students develop a general understanding of the jail and its role in American society. Students explore problems and issues facing contemporary jail administrators and staff and have the opportunity to tour jails in the region and dialogue with jail administrators and staff about problems and challenges. This course is for current employees of or students who have an interest in the field of corrections.

(3/45/0/0/0/0)

CRIM-1020
Introduction to Corrections

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course outlines corrections in a systematic process showing the evolving changes within institutional and community-based corrections. Topics include, but are not limited to: the history of corrections; the influence of social thought and philosophy on the development of corrections; the rights of the incarcerated inmate; and the duties of the correctional officer.

(3/45/0/0/0/0)

CRIM-1030
Courts & the Judicial Process

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course offers a survey of the United States judicial system. Topics include, but are not limited to, legal and constitutional concepts, institutions, and processes. Coverage includes adult and civil courts.

(3/45/0/0/0/0)

CRIM-1140
Reporting Techniques for Criminal Justice

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

The student learns to observe and document the behavior of crime victims, witnesses, and suspects. The student also learns to accurately describe and record conditions and activities or crime scenes for courtroom presentations. In accordance with the legal guidelines of confidentiality, each student maintains a log of classroom and field experiences.

(3/45/0/0/0/0)

CRIM-1500
Assessment Prior Criminal Justice Learning

This course is designed to assist students in evaluating their police and/or correctional officer academy training in relation to courses offered by WNCC. For certified police officers and correctional officers only.

(1/15/0/0/0/0)

CRIM-2000
Criminal Law

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course outlines the purpose and function of criminal law. Topics include, but are not limited to: the rights and duties of citizens and police in relation to local, state, and federal law (i.e. arrest, search and seizure, confessions); and the development, application, and enforcement of laws, constitutional issues, and sentencing.

(3/45/0/0/0/0)

CRIM-2030
Police & Society

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course is intended to examine the role of the police in relationship between law enforcement and American society. Topics include, but are not limited to: the role and function of police; the nature of police organizations and police work; and patterns of police/community relations.

(3/45/0/0/0/0)

CRIM-2060
Criminal Justice Internship I

This course offers the student the opportunity to gain valuable hands-on experience in an actual criminal justice setting by working in a law enforcement department.

Students have the opportunity to rotate through the entire agency based on a protocol developed by the department head.

(1/0/0/0/0/60)

CRIM-2061

Criminal Justice Internship II

This course offers the student the opportunity to gain valuable hands-on experience in an actual criminal justice setting by working in a law enforcement department. Students have the opportunity to rotate through the entire agency based on a protocol developed by the department head.

(2/0/0/0/0/120)

CRIM-2062

Criminal Justice Internship III

This course offers the student the opportunity to gain valuable hands-on experience in an actual criminal justice setting by working in a law enforcement department. Students have the opportunity to rotate through the entire agency based on a protocol developed by the department head.

(3/0/0/0/0/180)

CRIM-2110

Juvenile Justice

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

An examination of the origins, philosophy, and objectives of the juvenile justice system. Topics include, but are not limited to: causation of crime (i.e. race/gender, socioeconomic relevance, and victimization); the juvenile court system; the law enforcement approach; corrections; and prevention.

(3/45/0/0/0/0)

CRIM-2150

Contemporary Issues in Criminal Justice

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course will expose students to current social issues affecting the field of criminal justice and its professionals, victims, and defendants. Possible topics include racism, sexism, homophobia, poverty, hate crimes, capital punishment, addiction, ethics, gangs, child abuse, terrorism, sexual assault, domestic violence, suicide, mental illness, pornography, prostitution, and other timely topics.

(3/45/0/0/0/0)

CRIM-2150T

Contemporary Issues in Criminal Justice: Terrorism

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course will expose students to current social issues impacting the field of criminal justice and its professionals, victims, and defendants. Possible topics include racism, sexism, homophobia, poverty, hate crimes, capital punishment, addiction, ethics, gangs, child abuse, terrorism, sexual assault, domestic violence, suicide, mental illness, pornography, prostitution, and other timely topics.

(3/45/0/0/0/0)

CRIM-2180

Criminal Justice Organizations, Administration, & Management

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course introduces the student to the broad set of concepts, research, and practices that form a sound foundation for the management and administration of criminal justice organizations. A system-wide focus prepares students to study or work in a diverse range of criminal justice settings.

(3/45/0/0/0/0)

CRIM-2200

Criminology

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course examines crime and criminology from a broad social perspective. Emphasizes the nature and causes of crimes, investigation and prosecution, and treatment and prevention.

(3/45/0/0/0/0)

CRIM-2250

Community-Based Corrections

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course is designed to introduce the correctional process as it is applied in a community setting. The course is designed specifically to focus on probation, parole, and other community-based strategies for dealing with the offender.

(3/45/0/0/0/0)

CRIM-2260
Criminal Investigation

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course is an introduction to criminal investigation procedures. It includes a review of the historical development of criminal investigation and how investigative processes relate to the law enforcement function. The course studies procedures including, but not limited to: properly collecting, organizing, and preserving evidence; using basic investigative tools; examining the primary sources of information; analyzing the importance of writing skills; and reviewing the constitutional (legal) limitations of the investigation.

(3/45/0/0/0/0)

CRIM-2310
Rules of Evidence

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course emphasizes the concept of evidence and the rules governing its admissibility. It includes theoretical and pragmatic considerations of constitutional requirements effecting evidence and procedure.

(3/45/0/0/0/0)

CRIM-2350
Security & Loss Prevention

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course focuses on the increasing role private security plays in the field of crime prevention, detection, and investigation. Forms of private security including armed protective services; retail loss prevention; industrial and institutional security; security surveys and risk analysis; and issues related to the manufacture, sale, installation, and the effectiveness of a variety of security system applications will be explored, as well as the impact of homeland security on the private security sector.

(3/45/0/0/0/0)

CRIM-2900
Special Topics in Criminal Justice

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

The content of this course varies by semester, and its content is designed to allow for instruction in special content areas outside of the courses being offered by the Social Science Division. A class offered under this listing has a criminal justice emphasis chosen by a Criminal Justice faculty member based on student/program demand, compatibility with the general nature of social science and related courses, and instructor interest/competence. This course is offered periodically to meet student special interests in the field and is designed to cover specialized topics not usually presented in depth in regular courses already listed in the *College Catalog*. The course may be repeated for credit as long as the topic presented is substantially different from a previously taken special topics class. In any given semester, the course content is an examination of current problems or issues, organized in a lecture-discussion basis intended to involve students. Course content may vary as changing conditions require new approaches to emerging problems.

(1-3/15-45/0/0/0/0)

CRIM-2900A
Special Topics in Criminal Justice: Ethics & Criminal Justice

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course is an intense examination of the ethical considerations facing the criminal justice practitioner. Topics include determining moral behavior; developing moral and ethical behavior; ethics and law enforcement; ethics and the courts; ethics and corrections; the ethics of punishment; policy and management issues; and professionalism, pride, and ethics for practitioners.

(3/45/0/0/0/0)

CRIM-2900G
Special Topics in Criminal Justice: Understanding Gangs

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course offers students a unique perspective on current gang issues in a comprehensive, interdisciplinary, understandable, and contemporary format. Discussions focus on contemporary studies and theories of gang behavior. Gender issues, race and ethnicity, gangs in prisons and schools, gang victimization, and prevention and intervention programs are also explored.

(3/45/0/0/0/0)

Drafting Technologies

DRAF-1250
Computer-Aided Drafting & Design (CADD)

The student is introduced to automated drafting processes. The speed and power of the computer enhance the

knowledge and creativity of the student and replace many tiresome tasks with CADD functions that automate much of the drafting process. These are invaluable skills in a field that is advancing at a blinding pace.

(3/30/45/0/0/0)

DRAF-1260
CAD/CAM: Introduction to Solid Modeling I

This course provides the student with an understanding of the parametric design philosophy through a hands-on, practice-intensive curriculum. The student will learn the key skills and knowledge needed to design models using CAD/CAM software, starting with conceptual sketching through to solid modeling, assembly design, and drawing production.

(3/30/45/0/0/0)

DRAF-1261
CAD/CAM: Introduction to Solid Modeling II

Prerequisite: DRAF-1260

This course provides the student with a continued understanding of the parametric design philosophy through a hands-on, practice-intensive curriculum. The student will learn the key skills and knowledge needed to design models using CAD/CAM software, starting with conceptual sketching through to solid modeling, assembly design, and drawing production.

(3/30/45/0/0/0)

DRAF-2450
Autodesk Revit Building

AutoDesk Revit teaches students how to use the Revit program for residential and light commercial construction. Students learn how to use the basic tools provided in Revit and how to customize Revit for specific architectural applications. Topics are covered in an easy to understand sequence and progress that allows students to become comfortable with the commands.

(3/45/0/0/0/0)

Early Childhood Education

ECED-1010
CDA Preparatory Seminar I

This course is an introduction to early childhood education including an overview of the profession. The focus is on the development of children, specifically focused on developmentally age appropriate needs in the basic areas of physical, social, emotional, and intellectual development and basic program management. Learning experiences and assignments are individualized based upon a training needs assessment and will focus on the student's specific interests as a childcare professional. In addition to the weekly WNCC classroom seminar, the student is expected to work in one or more local early childhood centers a minimum number of credits per week to satisfy practicum field placement requirements. For interested students, this course provides both 45-clock credits of formal child care education and 120 credits of experience working with children, which could be used towards CDA certification.

(3/45/0/0/0/0)

ECED-1050
Expressive Arts

Prerequisite: ENGL-0065, ENGL-0070 or ACCUPLACER® (or other appropriate placement test)

This course focuses on the development and application of materials, activities, and experiences that encourage the young child's (birth – 8 years) creativity and aesthetic appreciation through the visual arts, music, body movement, and dramatic play.

(3/45/0/0/0/0)

ECED-1060
Observation, Assessment, & Guidance

This course introduces a variety of observation, assessment, and guidance strategies used in early childhood education settings: birth through age eight.

(3/45/0/0/0/0)

ECED-1110
Infant/Toddler Development

This course focuses on typical/atypical development of children in the prenatal period of development through 36 months. Planning curriculum in the domains of physical growth and motor skills, cognition and language, and social/emotional development are examined.

(3/45/0/0/0/0)

ECED-1120
Preschool Child Development

This course focuses on typical/atypical development of the child ages three through five years, in the domains of physical growth and motor skills, cognition and language, and social/emotional development.

(2/30/0/0/0/0)

ECED-1150
Introduction to Early Childhood Education

Prerequisite: ENGL-0065, ENGL-0070 or ACCUPLACER® (or other appropriate placement test)

The course provides an overview of the history, trends, and the philosophies of early childhood education. Diversity, inclusion, licensing standards, current legislation, professionalism, and advocacy are examined.

(3/45/0/0/0/0)

ECED-1160
Early Language & Literacy

Prerequisite: ENGL-0065, ENGL-0070 or ACCUPLACER® (or other appropriate placement test)

This course focuses on the development of pre-literacy and language skills from birth to age eight leading to the emerging literacy skills of reading and writing. The planning, preparation, and implementation of language arts and literacy activities is demonstrated.

(3/45/0/0/0/0)

ECED-1220
Pre-Practicum

This course is designed to provide an orientation to practicum experiences in the early childhood education program. Students will review the process for setting up a practicum, forms used during practicum, understand childcare licensing requirements for their state, and have their names cleared through appropriate background checks. Students will understand practicum expectations and responsibilities, methods of evaluation, and the importance of professionalism in the work place.

(1/15/0/0/0/0)

ECED-1221
Infant Toddler Practicum

Prerequisite: ECED-1110, ECED-1150, ECED-1220, or instructor consent

This course is designed to provide an understanding of the developmental stages of children six weeks through thirty-six months-of-age by participating in hands-on learning experiences in selected childcare settings. Students develop an awareness of appropriate adult/child interactions while developing positive employee skills. Basic skills in planning and implementing a daily routine and curriculum activities for infants and toddlers are also presented. Students are required to complete a minimum of 90 clock credits of practical work experience. Attendance at discussion sessions is required. A passing grade of C or better is required for ECED majors.

(2/0/0/0/90/0)

ECED-1230
School Age Child Development

This course focuses on typical/atypical development of the child ages five through eight years. The course will examine program design in out of school care that addresses the domains of physical growth and motor skills, cognition and language, and social/emotional development.

(2/30/0/0/0/0)

ECED-1240
Preschool & School-Age Practicum

Prerequisite: ECED-1060, ECED-1120, ECED-1230, or instructor approval

This course is designed to provide an understanding of the developmental stages of children from three to eight years of age by participating in hands-on learning experiences in selected childcare settings. Students develop an awareness of appropriate adult/child interaction while developing positive employee skills. Basic skills in planning and implementing a daily routine and curriculum activities for children from three to eight years of age are also presented. Students are required to complete a minimum of 90 clock credits of practical work experience. Attendance at discussion sessions is required. A passing grade of C or better is required for all ECED majors.

(2/0/0/0/90/0)

ECED-1610
Infant Practicum

This course is designed to provide an understanding of the developmental stages of children from birth through 18 months of age through participation in hands-on learning experiences in selected early childhood care and education settings. Students will develop an awareness of appropriate adult/child interaction and positive employee skills. Basic skills in planning and implementing a daily routine and curriculum activities for infants are presented. Students are required to complete a minimum of 45 clock hours of practical work experience.

(1/15/0/0/45/0)

ECED-1620
Toddler Practicum

Prerequisites or co-requisites: ECED-1110 and ECED-1220

This course is designed to provide an understanding of the developmental stages of children 18 months through 36 months of age through participation in hands-on learning experiences in selected childcare settings. Students will develop an awareness of appropriate adult/child interactions and positive employee skills. Basic skills in planning and implementing a daily routine and curriculum activities for toddlers are also presented. Students are required to complete a minimum of 45 clock hours of practical work experience.

(1/15/0/0/45/0)

ECED-1630
Preschool Practicum

Prerequisite or co-requisite : ECED-1110 and ECED-1220

This course is designed to provide an understanding of the developmental stages of children three to five years of age through participation in hands-on learning experiences in selected early-care and education settings. Students will develop an awareness of appropriate adult/child interactions and positive employee skills. Basic skills in planning and implementing a daily routine and curriculum activities for children three to five years of age are also presented. Students are required to complete a minimum of 45 clock hours of practical work experience.

(1/15/0/0/45/0)

ECED-1640
School-Age Practicum

Prerequisites or co-requisites: ECED-1220 and ECED-1230

This course is designed to provide an understanding of the developmental stages of children five to eight years of age through participation in hands-on learning experiences in selected early-care and educational settings. Students will develop an awareness of appropriate adult/child interactions and positive employee skills. Basic skills in planning and implementing a daily routine and curriculum activities for school-age children are also presented. Students are required to complete a minimum of 45 clock hours of practical work experience.

(1/15/0/0/45/0)

ECED-2050
Children with Exceptionalities

Prerequisite: ENGL-0065, ENGL-0070 or ACCUPLACER® (or other appropriate placement exam)

This course focuses on the theory, development, and philosophy of early childhood education programs serving children with exceptionalities. Topics include working with families, legislation, the role of the interventionist, interdisciplinary teams, and the inclusion of children with special needs in natural environments. A prior knowledge of child growth and development is strongly recommended.

(3/45/0/0/0/0)

ECED-2060
Early Childhood Education Curriculum

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

Co-requisite: ECED-1150

This course prepares students to plan, prepare, and implement developmentally appropriate lesson plans through a curriculum web. Theme-based units, the Project Approach, High Scope, Reggio Emilia, and other interest-based curricula are examined.

(3/45/0/0/0/0)

ECED-2070
Family & Community Relationships

This course focuses on the development of skills, techniques, and attitudes needed to form successful collaboration with diverse family systems and communities. Ten hours of volunteer service learning required.

(3/45/0/0/0/10)

Economics

ECON-1230
General Economics

Satisfies a social science requirement for AA or AS degree

This course is a survey of the major economic issues of today for students not majoring in law, economics, or business administration. Economic policy, problems, and institutions are stressed. This course should not be taken as a prerequisite to, or in lieu of, ECON-2110 or ECON-2120. This class meets the three-hour economics requirement for Nebraska state teacher certification.

(3/45/0/0/0/0)

ECON-2110

Principles of Macroeconomics

Prerequisite: ENGL-0065, ENGL-0070 or ACCUPLACER® (or other appropriate placement exam)

Satisfies a social science requirement for AA or AS degree

This course is a study of the "big ideas" of macroeconomics including GDP, CPI, inflation, unemployment, and international trade. A look at public-policy decision making using macro theories including monetary policy, fiscal policy, and other economic-stabilization theories. This course will also examine the economic challenges facing the global economy.

(3/45/0/0/0/0)

ECON-2120

Principles of Microeconomics

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

Satisfies a social science requirement for AA or AS degree

This course provides an analysis of perfect and imperfect markets, including the behavior of producers and consumers. Topics covered include price and income elasticity, public and private goods, income distribution, market structures, production costs, resource allocation, comparative advantage, and current economic problems.

(3/45/0/0/0/0)

Education

EDUC-1110

Introduction to Professional Education

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course provides an overview of education in the United States viewed in terms of history, philosophy, finance, and governance. This course encourages critical thought regarding the role of education in an ever-changing diverse society, the role of the teacher, and educational practices in schools. The course is designed to help students explore education as a prospective career.

(3/30/45/0/0/0)

EDUC-1700

Professional Practicum

Prerequisite or Co-requisite: EDUC-1110

This course is designed to acquaint the student with the classroom situation and atmosphere by participating in the teaching-learning process. It includes observation and assistance in classroom-related activities under the supervision of an experienced teacher.

(1/0/30/0/0/0)

EDUC-2000

Educational Psychology

Prerequisite: PSYC-1810

This course is a study of the three focal areas in education: the learner, the learning process, and the learning environment. It is a survey of the principles of psychology as applied to classroom teaching; development, learning, motivation, evaluation, and adjustment; and educational techniques and innovations.

(3/45/0/0/0/0)

EDUC-2110

Children's Literature

Prerequisite: ENGL-1010

Cross-listed as EDUC-2110/ENGL-2110 Children's Literature

Satisfies humanities requirement for an AA degree

This is a survey course designed to familiarize the student with a range of material available in the areas of children's literature. It covers material from the traditional to the contemporary, for a variety of ages in a variety of types, including picture books, folk tales, modern fantasy, poetry, realistic and historical fiction, biographies, and informational literature. The course familiarizes the student with children's literature so that he/she learns to select and evaluate appropriate materials for individual and group needs and interests.

(3/45/0/0/0/0)

EDUC-2300

Introduction to the Exceptional Learner

Prerequisites: EDUC-1110 and EDUC-2000

This course is a study of the characteristics of students with disabilities or exceptionalities. Emphasis is on the psychosocial implications, identification, differences, learning characteristics, and manifest behaviors. The effects of educational practices and attitudes and the nature of, and forces for social change, will be explored.

(3/45/0/0/0/0)

EDUC-2590

Instructional Technology

Prerequisite: EDUC-1110

This course is an introduction to a variety of technologies and strategies used in the instructional process to accommodate all learners. There is also a focus on the

social, ethical, legal, and human issues surrounding the use of technology.

(3/45/0/0/0/0)

EDUC-2860

Music Education for Elementary Teachers

Prerequisite: ECED-1150 or EDUC-1110

This course gives prospective elementary teachers the knowledge necessary to teach music. The student will learn the elements of music, the role of music in child development, specific applications for lessons, and contemporary teaching techniques.

(3/45/0/0/0/0)

EDUC-2890

Art Education for Elementary Teachers

Prerequisite: EDUC-1110 or ECED-1150

This is a methods course in teaching art at the elementary school level, including organization of units of work at various grade levels and practical experiences in a variety of projects and media. Requirements include out-of-class studio assignments.

(3/45/0/0/0/0)

Electrical & Computer Engineering

ECEN-2110

Introduction to Circuits and Electronics

Prerequisites: MATH-2150 and PHYS-2400

This course provides students with an understanding of basic circuit analysis including direct and alternating currents, AC power, frequency response, and electric machines. The course includes the study of basic electronic circuit elements; resistance, capacitance, and inductance; series/parallel circuit analysis; operational amplifiers; and digital logic and basic diode concepts.

(3/45/0/0/0/0)

Emergency Medical Services

EMSP-1100

Emergency Medical Responder

This course is designed to prepare students for the basic life support knowledge and skills necessary for entry into the Emergency Medical Services (EMS) profession. The Emergency Medical Responder (EMR) is the entry-level of EMS. Instruction occurs through classroom and hands-on lab experiences. Upon successful completion of the course, the student will be eligible to take the National Registry of Emergency Medical Technicians EMR written and psychomotor skills examination.

(4/52.5/0/22.5/0/0)

EMSP-1500

Emergency Medical Technician

Prerequisite: Current Nebraska State Board of EMS approved CPR Card

This course is designed to prepare students for basic pre-hospital emergency care and transport through classroom, hands-on labs, and clinical experiences. Upon successful completion of the course, the student will be eligible to take the National Registry examination for Emergency Medical Technicians EMT written and psychomotor skills examination.

(8/90/0/40/50/0)

EMSP-2000

Introduction to Paramedicine

Prerequisites:

- ***Current National Registry or state Emergency Medical Technician, Advanced Emergency Medical Technician or Intermediate licensure in good standing.***
- ***Current state approved cardiopulmonary resuscitation (CPR) card maintained throughout the entire course. (AHA recommended)***

Co-requisites: EMSP-2050, EMSP-2100, and EMSP-2400

This course provides the classroom education necessary to develop the knowledge, critical thinking skills, and professionalism expected of the entry-level paramedic. Course content focuses on an introduction to paramedicine, roles and responsibilities of the paramedic, public health, ethics in paramedicine, and human life span development.

(3/45/0/0/0/0)

EMSP-2050

Pathophysiology, Pharmacology, & Airway Management

Prerequisite: Successful completion of EMTL-2000 with a grade of 80% or higher.

Co-requisite: EMSP-2400

This is the second of eight lecture courses in the Paramedic Program designed for students with an Emergency Medical Technician license desiring to progress to the paramedic level of practice. The course provides classroom learning experiences to develop the

knowledge, critical thinking skills, and professionalism expected of the entry-level paramedic. The content of this course will focus on pathophysiology, emergency pharmacology, intravenous access and medication administration, and airway management and ventilation. Students must complete all requirements in this course to advance to EMSP-2100. Additionally, all students must satisfactorily demonstrate proficiency in the areas of IV access, medication administration, and airway management to fully participate in any field internship/clinical rotation hours. It is expected that all students will have all ALS and BLS skills of EMSP-2400 completed by the end of this semester.

(4/60/0/0/0/0)

EMSP-2100
Patient Assessments

Prerequisite: EMSP-2000, EMSP-2050, and EMSP-2400

This course provides classroom experiences necessary to develop the knowledge, critical thinking skills, and professionalism expected of the entry-level paramedic. The content of this course will focus on the components of patient assessment and will include the American Heart Association's Advanced Cardiac Life Support training.

(3/45/0/0/0/0)

EMSP-2150
Pulmonology and Cardiology

Prerequisite: EMSP-2100

Co-requisites: EMSP-2200, EMSP-2250, and EMSP-2500

This course provides classroom learning experiences to develop the knowledge, critical thinking skills, and professionalism expected of the entry-level paramedic. The content of this course will focus on cardiac emergencies, pulmonary medical emergencies, EKG rhythm interpretation, and 12-lead EKG interpretation.

(4/60/0/0/0/0)

EMSP-2200
Medical Emergencies

Co-requisite: EMSP-2150, EMSP-2250, and EMSP-2500

This course provides classroom learning experiences to develop the knowledge, critical thinking skills, and professionalism expected of the entry-level paramedic. The content of this course will focus on medical emergencies paramedics will encounter.

(4/60/0/0/0/0)

EMSP-2250
Trauma Emergencies

Co-requisite: EMSP-2150, EMSP-2250, and EMSP-2500

This course provides classroom learning experiences to develop the knowledge, critical thinking skills, and professionalism expected of the entry-level paramedic. The content of this course will focus on trauma emergencies.

(3/45/0/0/0/0)

EMSP-2300
Trauma and Special Considerations

Prerequisite: EMSP-2250

Co-requisites: EMSP-2300 and EMSP-2600

This course provides learning experiences to develop the knowledge, critical thinking and psychomotor skills, and professionalism expected of the entry-level paramedic. The content of this course will focus conclude trauma emergencies then shift focus over to special considerations in paramedicine.

(3/45/0/0/0/0)

EMSP-2350
EMS Operations

Co-requisites: EMSP-2300 and EMSP-2600

This course provides learning experiences to develop the knowledge, critical thinking and psychomotor skills, and professionalism expected of the entry-level paramedic. The content of this course will conclude special considerations then shift focus over to EMS operations. Students must complete all requirements in this course to complete the paramedic program.

(3/45/0/0/0/0)

EMSP-2400
Paramedic Clinical I

Co-requisite: EMSP-2000, EMSP-2050, EMSP-2100

During this lab/clinical rotation, students must demonstrate competency in all Basic Life Support (BLS) skills along with all Advanced Life Support (ALS) skills. The purpose of this clinical is to provide hands-on, psychomotor skills training in the laboratory, hospital, and pre-hospital settings to begin the process of developing entry-level clinical competency.

(5/0/0/0/225/0)

EMSP-2500
Paramedic Clinical II

Prerequisite: EMSP-2400

Co-requisite: EMSP-2150, EMSP-2200, and EMSP-2250

This is the second of a three-clinical series in the Paramedic Program. The objective of the clinical is to provide the hands-on, psychomotor skills training in the laboratory, hospital, and Emergency Medical Services to advance competency in the affective, cognitive, and psychomotor learning domains.

(5/0/0/0/225/0)

EMSP-2600
Paramedic Clinical III

Prerequisite: EMSP-2500

Co-requisite: EMSP-2300 and EMSP-2350

The objective of the clinical is to provide the hands-on, psychomotor skills training in the laboratory, hospital, and EMS. This clinical will consist of 225 ambulance hours with a minimum of 40 patient contacts. This course represents the capstone component of the Paramedic training. The timing and sequencing of the team-leads occur as a capstone experience and is relative to the didactic and clinical phases of the program resulting in an appropriate experience to develop and demonstrate competence. The student must function as the team-lead on a minimum of 20 EMS calls.

(5/0/0/0/225/0)

Engineering

ENGR-1010
Introduction to Engineering Design

Introduction to the engineering profession, engineering problem solving, and engineering design with an emphasis on current topics. Course material is presented using projects and group learning activities.

(3/45/0/0/0/0)

ENGR-1020
Programming & Problem Solving

This freshman-engineering course introduces students to the engineering problem solving process in the context of high-level structured computer programming. The course consists of a sequence of programming assignments that require students to write computer programs to solve engineering problems. All of the computer assignments are written in MATLAB.

(3/45/0/0/0/0)

ENGR-1070
Graphics for Engineers

The engineering student learns to read and communicate technical information by means of technical drawing. The use of standard drawing equipment, the computer (CAD) as the principal tool of the drafter's workstation, and the basic principles of descriptive geometry and graphical representation of technical data are covered. Freehand sketching is also included in this course.

(3/30/30/0/0/0)

ENGR-2020
Statics

Prerequisite: MATH-2150

This course is a rigorous presentation and discussion based on deductive reasoning of the fundamental principles of the mechanics of rigid bodies, statics, and their application to the solution of engineering problems. Vector methods are used. Software applications are also part of this course.

(3/45/0/0/0/0)

English

ENGL-0010
Basic Reading

Prerequisite: ACCUPLACER® (or other appropriate placement exam)

This course develops effective reading skills and promotes clear thinking. Through practice, students improve comprehension and develop as critical readers. The course incorporates an emphasis on vocabulary development and improving individual reading ability.

(3/45/0/0/0/0)

ENGL-0030
Basic Writing

Prerequisite: ACCUPLACER® (or other appropriate placement exam)

This course improves writing skills, teaching students techniques like using the writing process to compose short narrative and expository pieces, as well as structuring writing to create effective written communication. Students learn to use well-chosen words and create precise phrases, clauses, and sentences within the context of their own writing. Students learn to incorporate correct usage and grammar into their compositions.

(3/45/0/0/0/0)

ENGL-0050
Developmental Writing

Prerequisite: ENGL-0030, ESLX-0035, or ACCUPLACER® or Second Screen Writing (or other appropriate placement exam)

Co-requisite: ENGL-0050L

This course prepares students for college-level writing. Using the writing process, students produce writing at the paragraph and essay-levels. Students learn to organize effective pieces of writing, improve diction, focus tone, and produce writing that evidences proper mechanics and usage. Successful completion of this course qualifies a student for enrollment into ENGL-1010, as well as other WNCC classes with writing-level prerequisites.

(3/45/0/0/0/0)

ENGL-0050L
Writing Lab

Co-requisite: ENGL-0030, ENGL-0050, or ENGL-0065

ENGL-0065
Integrated Reading & Writing

Prerequisite: ENGL-0050 or ACCUPLACER® (or other appropriate placement exam)

Co-requisite: ENGL-0050L

This course prepares students for college-level writing. The course is open to students scoring just below the level necessary for ENGL-1010 on their placement exam but at a level that indicates they could benefit from integrated and accelerated instruction in both reading and writing. Students will learn to use the writing process to complete writing assignments and increase reading comprehension. Successful completion of this course qualifies a student for enrollment in ENGL-1010, as well as other WNCC classes with writing-level prerequisites.

(3/45/0/0/0/0)

ENGL-0070
Reading Techniques

Prerequisite: ENGL-0010 or ACCUPLACER® (or other appropriate placement exam)

This course is designed to give students the necessary reading skills to manage a college-level reading load. Students receive instruction in effective reading strategies, and increased vocabulary and practice comprehension skills. Individual reading ability is identified and targeted for improvement.

(3/45/0/0/0/0)

ENGL-1000
Workplace Writing

Prerequisite: ENGL-0010, ENGL-0030, ESLX-0035, or ACCUPLACER® of Second Screen Writing (or other appropriate placement exam)

This course familiarizes students with writing strategies most often employed in vocational and technical fields and prepares them for entry-level workforce communication demands. Writing instruction and practice are given in areas such as the development and writing of abstracts or summaries, correspondence, memoranda, job applications, and various short incident, progress, travel, or analytical reports. Evaluative emphasis is placed upon tone, content, format, grammar, and mechanics.

(3/45/0/0/0/0)

ENGL-1010
English Composition I

Prerequisite: ENGL-0050 and ENGL-0065 or ENGL-0070 or ACCUPLACER® (or other appropriate placement exam)

English Composition I offers instructional practice in the techniques of effective writing. The process of planning, writing, revising, and editing essays for particular audiences and purposes and research-related skills are also emphasized.

(3/45/0/0/0/0)

ENGL-1020
English Composition II

Prerequisite: ENGL-1010

In this course, students will read and analyze various texts and respond with research-based, argumentative essays that demonstrate information literacy, critical-reading, and source integration. A significant argument-based research project is required.

(3/45/0/0/0/0)

ENGL-2050
American Literature, 1620-1865

Prerequisite: ENGL-1010

Satisfies a humanities requirement for AA or AS degree

This survey course examines the chronological development of American literature from utilitarian writings to belles-lettres, as well as its social, political, religious, and philosophical backgrounds using the

selected works of representative authors from colonial times through the Civil War.

(3/45/0/0/0/0)

ENGL-2070
American Literature, 1865-Present

Prerequisite: ENGL-1010

Satisfies a humanities requirement for AA or AS degree

This survey course deals with the rise of realism, naturalism, and other significant literary trends as represented in selected works from the post-Civil War period to the present.

(3/45/0/0/0/0)

ENGL-2110
Children's Literature

Prerequisite: ENGL-1010

Cross-listed as EDUC-2110/ENGL-2110 Children's Literature

Satisfies a humanities requirement for AA or AS degree

This survey course is designed to familiarize the student with a range of material available in the areas of children's literature. It covers material from the traditional to the contemporary, for a variety of ages in a variety of types, including picture books, folk tales, modern fantasy, poetry, realistic and historical fiction, biographies, and informational literature. The course familiarizes the student with children's literature so that he/she learns to select and evaluate appropriate materials for individual and group needs and interests.

(3/45/0/0/0/0)

ENGL-2130
Survey of English Literature I

Prerequisite: ENGL-1010

Satisfies a humanities requirement for AA or AS degree

This is a study of literary works and the times in which they occurred beginning with the earliest Anglo-Saxon literature and extending to the 18th century. Emphasis is placed upon the philosophical background of each period so that individual literary works can be better understood and placed in perspective.

(3/45/0/0/0/0)

ENGL-2190
The Novel

Prerequisite: ENGL-1010

Satisfies a humanities requirement for AA or AS degree

This course is designed to acquaint the student with the novel genre, so that the student can better see the contemporary world through past and present works while also learning the technical aspects of such literature. Along with the appreciation of the works themselves, the history of the novel is considered to enhance the understanding of each selection.

(3/45/0/0/0/0)

ENGL-2200
Creative Writing

Prerequisite: ENGL-1010

This course offers a study in the guided creation and refinement of original works, normally conducted with an instructor-determined focus with specific genres such as poetry, fiction, magazine writing, or creative non-fiction.

(3/45/0/0/0/0)

ENGL-2900
Special Topics in Literature

Prerequisite: ENGL-1010

This course allows for a deep analysis of connected examples of literature, as defined by geography, author, theme, culture, and/or other select areas.

(3/45/0/0/0/0)

ENGL-2900A
Special Topics in Literature: Nebraska Literature

Prerequisite: ENGL-1010

This course involves a concentrated study of select Nebraska authors and/or authors writing about the state of Nebraska. It provides a deep analysis of literature with an emphasis on geography, theme, and culture.

(3/45/0/0/0/0)

Finance

FINA-2500
Finance Internship

Prerequisite or Co-requisite: BSAD-2100

Work experience is an important part of any educational program. This internship is intended to give students experience in solving real world problems while working under the supervision of an employer and instructor. Students are compensated for their credits and receive college credit.

(1-3/0/0/0/0/60-180)

Geology

GEOL-1010
Physical Geology
Co-requisite: GEOL-1010L

This course is an exploration of the origin of Earth materials, structures, and land forms. An emphasis is placed on the scientific methods important to understanding the Earth and its processes.

(4/45/30/0/0/0)

GEOL-1010L
Physical Geology Lab
Co-requisite: GEOL-1010

Global Studies

GBST-1000
Language Study Abroad

Students participate in a minimum two-week stay in a foreign country to study the country's native language. During the two weeks, students will live with a native family, study the language at a language school/center, and participate in a variety of field trips to learn more about the culture, history, and environment of the country. A valid passport is necessary for this course, and the cost for this course is set outside the regular WNCC fee schedule and varies based on study location.

(3/40/10/0/0/0)

Health Information Technology

HIMS-1250
Introduction to Health Information Management
Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

This course explores a career in health information, the American Health Information Management Association (AHIMA), and the benefits and responsibilities of achieving credentialed status as a Registered Health Information Technician (RHIT). Content and structure of patient records; quantitative and qualitative analyses of the documentation of patient care; storage methods; and retrieving patient data elements will be explored. Students will be introduced to the various functions performed in a health record department with emphasis on maintaining confidentiality of patient data.

(3/45/0/0/0/0)

HIMS-1350
Health Care Delivery Systems
Prerequisite: HIMS-1250

This course serves as an orientation to the organization of the health care industry and current trends in health care delivery systems. Issues related to accreditation standards, licensing, and government regulations are included.

(2/30/0/0/0/0)

HIMS-1410
Disease Process
Prerequisite: BIOS-1160 or LPNR 1110 and HLTH-1060 or instructor consent

Co-requisites: HIMS-1250 and HIMS-2150

This course explores the pathology and pharmacologic treatments of diseases of the integumentary, skeletal, musculoskeletal, endocrine, cardiovascular, respiratory, digestive, urinary, endocrine, nervous, and reproductive systems. Concepts and treatment modalities of infectious blood and immune diseases, and neoplasia are also explored. Procedures and laboratory radiological testing performed on patients with specific diseases will be introduced.

(4/60/0/0/0/0)

HIMS-1500
Legal & Ethical Aspects of HIMS
Prerequisite: ENGL-0070 or ACCUPLACER® (or other appropriate placement exam)

This course introduces the student to the study of legal principles related to patient care and health information, legal terminology and procedures, court systems, and liability of health care providers. The course will also provide students with an understanding of the legal requirements governing policies designed to safeguard health information and how to appropriately respond to requests for patient specific information.

(3/45/0/0/0/0)

HIMS-2100
Coding ICD

Prerequisite: BIOS-1160 or LPNR-1110, HLTH-1060, and HIMS-1250

Co-requisites: HIMS-1410, HIMS-2100L, or instructor consent

This course begins exploration of the ICD-10-CM and ICD-10-PCS coding systems and their use in various data collection schemes. Students apply ICD-10-CM coding principles to various exercises and practice health records in a lab setting.

(4/30/60/0/0/0)

HIMS-2100L
Coding ICD Lab

Prerequisite: BIOS-1160 or LPNR-1110, HLTH-1060, and HIMS-1250

Co-requisites: HIMS-1410, HIMS-2100, or instructor consent

HIMS-2150
Coding CPT

Prerequisite: BIOS 1160, LPNR 1110, or HLTH 1060

Co-requisite: HIMS-1410 and HIMS-2150L

This course will explore the CPT coding system and its use in various reimbursement and data collection schemes. Students will apply CPT coding principles to various exercises and practice health records in a lab/discussion board setting.

(4/30/60/0/0/0)

HIMS-2150L
Coding CPT Lab

Prerequisite: BIOS 1160, LPNR 1110, or HLTH 1060

Co-requisite: HIMS-1410 and HIMS-2150

HIMS-2180
Reimbursement Methodologies

Prerequisite: HIMS-2100 and HIMS-2150 or instructor consent.

Co-requisite: HIMS-2180L

This course introduces the student to methods of healthcare reimbursement. An initiation to the language of healthcare reimbursement is also included. The student will explore principles of reimbursement as they apply to various types of healthcare settings.

(4/30/60/0/0/0)

HIMS-2180L
Reimbursement Methodologies Lab

Prerequisite: HIMS-2100 and HIMS-2150 or instructor consent.

Co-requisite: HIMS-2180

HIMS-2200
Information Systems in Health Care

Prerequisite: ACCUPLACER® (or other appropriate placement exam)

Co-requisite: HIMS 1250

This course is designed to explore the uses and applications of information systems in healthcare. The fundamentals of information systems, including electronic health records, will be explored. Students will become familiar with information systems used for managerial and clinical support. Information security will be discussed.

(2/30/0/0/0/0)

HIMS-2250
Healthcare Statistics

Prerequisite: HIMS-1350 and MATH-1010 or ACCUPLACER® (or other appropriate placement exam)

This course instructs the student on terminology used in the collection and integration of data. Computation of various formulas are used in analyzing and converting this data to useful information. Students learn appropriate methods of disseminating and distributing information and ways to manage statistical information effectively and efficiently.

(2/30/0/0/0/0)

HIMS-2330
Health Information Management Applications I

Prerequisite: HIMS-1350

Co-requisite: HIMS-2330L and HIMS-2730

This course examines through literature review and hands-on lab experiences the foundations of the health information technology used in the collection and management of clinical information. Topics covered include the function and the content and structure of the health record, primary and secondary data sets, healthcare information requirements and standards, the transition from paper-based records to electronic health records, and the functions of a health information management department.

(2/15/30/0/0/0)

HIMS-2330L
Health Information Management Applications I Lab

Prerequisite: HIMS-1350

Co-requisite: HIMS-2330 and HIMS-2730

HIMS-2340
Health Information Management Applications II

Prerequisite: HIMS-2250, HIMS-2330, and HIMS-2730

Co-requisite: HIMS-2340L and HIMS-2760

This course examines issues related to the administration of a health information management department. Students explore technologies used in more advanced activities through review of literature and hands-on experience in a lab setting. Topics include: fundamentals of healthcare information systems; emerging technologies in healthcare; security of information; issues surrounding the implementation of the electronic health record; supervision of departmental activities; and human resource issues.

(2/33.75/15/0/0/0)

HIMS-2340L
Health Information Management Applications II Lab

Prerequisite: HIMS-2250, HIMS-2330, and HIMS-2730

Co-requisites: HIMS-2340 and HIMS-2760

HIMS-2360
Coding Professional Practical Experience

Prerequisite: HIMS-2550 or concurrent enrollment

This course prepares the student to perform the basic functions and tasks of a coding specialist. The student codes actual medical records in a variety of healthcare settings. The HIMS program director and the health care facility staff guide the student in accomplishing the objectives set forth in the *Professional Practice Experience* handbook.

(3/15/60/0/0/0)

HIMS-2390
Coding & Reimbursement Applications

Prerequisite: HIMS-2100 and HIMS-2150

Co-requisite: HIMS-2180 and HIMS-2390L

This course is the fourth coding and reimbursement class utilizing ICD-10 and CPT Coding Systems and their uses in various reimbursement settings. Emphasis will be on the application of coding principles in various health records. Coding from a reimbursement perspective and monitoring and compliance will be included.

(3/15/30/0/0/0)

HIMS-2390L
Coding & Reimbursement Applications Lab

Prerequisite: HIMS-2100 and HIMS-2150,

Co-requisite: HIMS-2180 and HIMS-2390

HIMS-2630
Quality Assessment and Performance Improvement

Prerequisite: HIMS-1500 and HIMS-2250

This course introduces the student to the peer review process and the role health information plays in evaluating patient care. The course investigates the components of quality improvement programs in health care facilities, including quality assessment, performance improvement, continuous quality improvement, utilization management, risk management and critical/clinical pathways. In addition, this course will discuss health information's role in corporate compliance programs.

(3/45/0/0/0/0)

HIMS-2730
Professional Practice Experience I

Prerequisite: HIMS-1250, HIMS-1350, HIMS-1500, HIMS-2250, or instructor consent

Co-requisite: HIMS-2330

The course is designed to help the student gain the entry-level competencies as set forth by the American Health Information Management Association (AHIMA). Student performs the basic functions and tasks of a health information management department. The student uses actual health records in a health care facility and the virtual lab to perform these functions and tasks. The HIMS faculty and the health care facility staff guides the student in accomplishing the objectives set forth in the *Professional Practice Experience* handbook.

(2/0/0/0/90/0)

HIMS-2760
Professional Practice Experience II

Prerequisite: HIMS-2730

Co-requisites: HIMS-2340 and HIMS-2340L

The course is designed to help the student gain the entry-level competencies set forth by the American Health Information Management Association (AHIMA). This course is a continuation of HIMS-2730. The student is given more advanced health information management

experiences both in an acute care facility and alternate health care settings, such as nursing homes, ambulatory clinics, physician offices, and hospice agencies. The HIMS faculty and the health care facility staff guide the students in accomplishing the objectives set forth in the *Professional Practice Experience* handbook.

(2/0/0/0/90/0)

Health Occupations

HLTH-1060
Comprehensive Medical Terminology

This course establishes a solid foundation of prefixes, suffixes, word roots, abbreviations, medical terms, and symbols. It emphasizes understanding the medical vocabulary as it applies to the anatomy, physiology, pathology, and diagnostic and therapeutic procedures of all the human body systems.

(3/45/0/0/0/0)

HLTH-1090
CPR-Healthcare Provider

This course is designed for healthcare providers and other interested individuals. Students learn two-person and one-person rescue. Individuals learn signs and symptoms of heart attacks, strokes, and choking. The course prepares individuals to perform CPR and the Heimlich maneuver on infants, children, and adults. The American Heart Association standards are followed.

(.5/8/0/0/0/0)

HLTH-1100
First Aid

This course is designed for the community at large. The student is given an introduction to first aid; how to assess an injury/victim; how to perform basic first aid for various types of injuries, medical, and environmental emergencies; and stabilization and transfer techniques.

(.5/8/0/0/0/0)

HLTH-2190
Medication Aide

Prerequisite: NURA-1190

This course is designed to instruct the experienced nursing assistant to assume the role of care staff member with a beginning knowledge of medication administration and pharmacology. Upon completion of the course, the student is eligible to sit for an exam administered by the Department of Health. Successful completion of this exam approves the student as a care staff member. This course runs for six (6) weeks.

(3/45/0/0/0/0)

History

HIST-2010
American History I

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a social science requirement for AA or AS degree

This course is a survey of American history from the Age of Discovery through the Civil War and Reconstruction. Emphasis is on the political, economic, cultural, social, and technological issues that arise in the development of the American nation.

(3/45/0/0/0/0)

HIST-2020
American History II

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a social science requirement for AA or AS degree

This course is a survey of American history from the end of the Civil War era to the present. Emphasis is on the political, economic, cultural, social, and technological issues that arise in America's development as a global power.

(3/45/0/0/0/0)

HIST-2025
The Sixties

This course is a survey of the 1960s, covering the political, social, and economic history of the United States during that time. This course will begin with a survey of the major trends of the 1950s that influenced the 1960s. From there, the decade of the 1960s is covered in depth. At every juncture, the arts are infused into the course with relevant discussions of what was happening in art, literature, music, movies, and culture making the class almost as much of a humanities class as a history class.

(3/45/0/0/0/0)

HIST-2050
Special Topics in History

This course allows for instruction in special content areas outside of the courses being offered by the Division of Social Science and Human Performance.

(3/45/0/0/0/0)

HIST-2060
History of Nebraska

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

Satisfies a social science requirement for AA or AS degree

This course is a survey of the political, economic, and social history of Nebraska, beginning with an examination of the indigenous peoples inhabiting North America at the time of the first European exploration of the Great Plains and ending with more recent historical developments.

(3/45/0/0/0/0)

HIST-2100
World Civilization (4000 BC - 1500 AC)

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

Satisfies a humanities requirement for AA or AS degree

The social, economic, political, philosophical, and aesthetic advancement of humankind from ancient times through the medieval period is examined in this course.

(3/45/0/0/0/0)

HIST-2110
World Civilization (1500 AD - Present)

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

Satisfies a humanities requirement for AA or AS degree

The social, economic, political, philosophical, and aesthetic advancement of humankind from the medieval period to the present is examined in this course.

(3/45/0/0/0/0)

HIST-2500
History Internship I

This internship is a cooperative agreement between WNCC and community partners. These internship programs provide students valuable hands-on learning experiences in aspects of the operations of assigned partners. Through this internship, students receive academic credit that may be applied toward a history degree or a related discipline.

This internship program offers students the opportunity to apply information from classes to real-life experiences. Students are able to explore career opportunities and gain practical work experience that can be valuable in the job market or in pursuing an advanced degree, especially if the student intends to pursue a career or advanced degree in history upon graduation from WNCC.

The credits awarded are dependent upon guidelines established by WNCC. Students can receive up to six (6) credits through the history internships.

(1-3/0/0/0/0/0/60-180)

HIST-2510
History Internship II

This internship is a cooperative agreement between WNCC and community partners. These internship programs provide students valuable hands-on learning experiences in aspects of the operations of assigned partners. Through this internship, students receive academic credit that may be applied toward a history degree or a related discipline.

This internship program offers students the opportunity to apply information from classes to real-life experiences. Students are able to explore career opportunities and gain practical work experience that can be valuable in the job market or in pursuing an advanced degree, especially if the student intends to pursue a career or advanced degree in history upon graduation from WNCC.

The credits awarded are dependent upon guidelines established by WNCC. Students can receive up to six (6) credits through the history internships.

(1-3/0/0/0/0/0/60-180)

HIST-2580
History of the American West

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement exam)

Satisfies a social science requirement for AA or AS degree

This course examines historical issues and events involving America west of the Mississippi River including the concepts of the "west" and "frontier." Central themes in the course include an examination of who migrated to the west and why, the results of that migration, and the impact of migration and the events surrounding it on the United States as a whole. Examples of topics covered in the course include: the history and influence of the Spanish and French; cultural interaction and conflict between Europeans explorers/settlers and indigenous peoples; early explorers and emigrants (including the fur trade); cowboys, outlaws, and violence; children, marriage, and families; farming, settlement, and homesteading; and the West of the imagination (myth and reality of the West in American culture and popular culture).

(3/45/0/0/0/0)

Human Services

HUSR-1620
Introduction to Human Service Work

This course provides a general introduction to the field known as human services. The history of the field and how historical and current legislation impact human services will be discussed. The roles of human service workers in various agencies in the community and surrounding areas will be explored. In addition, students are exposed to general skills and values that are important in human service work.

(3/45/0/0/0/0)

HUSR-1800
Case Assessment, Planning, & Management

This course provides students with a process for collecting data and assessing client information for the purpose of treatment planning. It includes intake and screening, clinical assessment, treatment planning, documentation, case management, and discharge and continuing care for client care related to both addiction treatment and generalist service provision.

(3/45/0/0/0/0)

HUSR-2000
Introduction to Counseling Skills: Theories & Techniques

Pre- or co-requisite: HUSR-1620

This course is an introduction to the interviewing, listening, and report writing skills required of human service workers, including substance abuse providers. Students are introduced to counseling theory and schools of thought, combined with a brief presentation of the techniques used by some of the theorists.

(3/45/0/0/0/0)

HUSR-2300
Group Counseling

Prerequisite: HUSR-2000

This course is an introduction to group counseling. Students will study and practice group theories, processes, dynamics, techniques, methods, counseling, and facilitation. A focus will be on practical knowledge and techniques for effective group leadership for both generalists and alcohol and drug counselors.

(3/45/0/0/0/0)

HUSR-2380
Professional Ethics & Issues

This course provides a comprehensive review of ethical issues present in human services including informed consent, non-discrimination, confidentiality, client welfare, patient records, client relationships and boundaries, and relationships with other professionals. Moral standards as a human services worker are discussed including scope of practice, consultation, supervision, and societal obligations. Legal implications of failure to follow ethical codes will also be discussed.

(3/45/0/0/0/0)

HUSR-2450
Multicultural Counseling

This course includes an education on cultural, social, lifestyle, spiritual, and economic factors relevant to the provision of competent and relevant counseling to varied populations. Specific populations to be discussed include those of differing race and ethnicity, ages, genders, sexual orientation, social class, religions, and abilities. Adaptations needed in the helping process to meet the needs of these varied populations is also discussed.

(3/45/0/0/0/0)

HUSR-2500
Human Service Work Internship

Prerequisite: HUSR-2800; cumulative GPA of 2.0

Work experience is an important part of any educational program. This internship is intended to give students extended experience in solving real world problems while working under the supervision of an employer and instructor. Students may be compensated for the hours worked and will receive one (1) credit for each 60 hours worked to earn three (3) credits.

(3/0/0/0/0/180)

HUSR-2530
Clinical Treatment Issues

Students in this course will receive an education in the treatment issues specific to substance use disorders including the role of denial, resistance, minimization, family dynamics, relapse, cross-addiction, co-occurring disorders, spirituality, and the influence of self-help groups. There is a review of the drugs of misuse and their effects. The unique treatment needs of individuals based on gender, culture, lifestyle, and past history including trauma will also be discussed.

(3/45/0/0/0/0)

HUSR-2800

Human Service Worker Practicum

Prerequisite: HUSR-1620 and HUSR-2000; cumulative GPA of 2.0

Work experience is an important part of any educational program. This practicum is intended to give students extended experience in solving real world problems while working under the supervision of an employer and 2500instructor. Students will not be compensated for the credits worked and will receive one (1) credit for 15 credits of in class time and one (1) credit for each 45 credits of out of class work completed for a total of four (4) credits.

(4/15/0/0/135/0)

Humanities

(Additional humanities include Art History and Criticism, Literature, Music Appreciation, Philosophy, Spanish, and Theatre)

HUMS-1100

Introduction to the Humanities

Prerequisite: ENGL-0050, ENGL-0070, ENGL-0065 or ACCUPLACER® (or other appropriate placement test)

Satisfies a humanities requirement for AA or AS degree

This survey course focuses on art, music, theatre, film, dance, architecture, and philosophy. It examines the unfolding of global humanistic traditions in order to reawaken our sense of wonder and curiosity about the meaning of life. The course gives students criteria from which to evaluate current times and situations and to enrich their historical perspectives. It shows how the various arts intersect and influence and are influenced by their times.

(3/45/0/0/0/0)

HUMS-2980

Global Study Experience

Prerequisite: Completion of required, pre-global study orientation course

This course provides a structured cross-cultural experience, including pre-departure cultural orientation, in-country immersion experience, and culminating project. Includes a review of history, religion, geography, philosophy, literature, anthropology, culture, fine arts, food, language and other relevant topics. The course involves a short-term global study experience with additional fees for travel.

(1-3/7.5-22.5/22.5-67.5/0/45-135/0)

Information Technology

INFO-1030

Spreadsheets (Excel)

This course focuses on the features and usage of electronic spreadsheet applications. Students will be introduced to worksheet design, formulas, functions, charts, data manipulation, data consolidation, and financial forecasting. The Microsoft Office Specialist Excel Expert exam can be accepted as equivalent to this class. Contact the instructor for details.

(3/45/0/0/0/0)

INFO-1040

Database (Access)

This course introduces systems design by emphasizing the relational database model. Curriculum content focuses on table and form design, queries and reports, sub forms, multiple table queries, and the integration of Access with the Web and other programs. Keyboarding skills are recommended.

(3/45/0/0/0/0)

INFO-1094

Intro to Database (Access)

This course is an entry-level database course designed to enable the student to create a simple table, query, form, and report. This course provides a foundation for more advanced courses in database concepts. Keyboarding skills are recommended.

(1/15/0/0/0/0)

INFO-1097

Electronic Communications (Outlook)

This course focuses on effectively utilizing various components of electronic communications using Microsoft Outlook: e-mail, calendar, contacts, tasks, and interaction among users.

(1/15/0/0/0/0)

INFO-1100

Microcomputer Applications

This course focuses on the fundamentals of word processing, spreadsheets, and presentation graphics in a Windows-based environment and includes the integration of these applications. Use of technology in communication is also covered. Keyboarding skills are recommended.

(3/45/0/0/0/0)

INFO-1194

Records Management

Pre- or co-requisite: INFO-1094

Records management is examined from records creation to disposal. Indexing systems, equipment, supplies, and physical conditions for various types of records are reviewed. This course stresses the importance of record control as an administrative function. A manual packet as well as a computerized database simulation are utilized.

(3/34/0/0/0/0)

INFO-1220

Introduction to Information Technology

This is an introductory course designed to impart an understanding of electronic information processing to the student. No previous experience is required. The course attempts to clarify the concepts, mechanics, new developments, social evolution, and future implications of electronic information processing. Keyboarding skills are recommended.

(3/45/0/0/0/0)

INFO-1241

IT Technical Support

This course is an introduction to computer, mobile device, and other information technology (IT) operating systems with an emphasis on the skills necessary to pass the Computing Technology Industry Association (CompTIA) A+ software certification exam. Additional topics covered are communication skills, security, installation, troubleshooting, optimization, support, networking, and maintenance of IT environment software. The student is encouraged to take the CompTIA A+ software certification exam. The CompTIA A+ software and hardware exam are both required for A+ certification. A current CompTIA A+ certification is accepted as equivalent to this class. Contact the instructor for details.

(3/45/0/0/0/0)

INFO-1242

IT Hardware Support

This course is an introduction to computer, mobile device, and other information technology hardware with an emphasis on the skills necessary to pass the Computing Technology Industry Association (CompTIA) A+ hardware certification exam. Additional topics covered are communication skills, security, installation, troubleshooting, optimization, support, networking, and maintenance of IT environment hardware. The student is encouraged to take the CompTIA A+ hardware certification exam. The CompTIA A+ software and hardware exam are both required for A+ certification. A current CompTIA A+ certification is accepted as equivalent to this class. Contact the instructor for details.

(3/45/0/0/0/0)

INFO-1255

Python

This course is an introductory study of computer programming, problem solving methods, and accepted software development practices using Python, an interpreted programming language. Topics include the fundamentals of Python procedural and object-oriented programming and an introduction of advanced features of Python.

(3/45/0/0/0/0)

INFO-1360

Visual C#

This course introduces fundamental programming concepts, designs, and best practices using Microsoft's Visual C#. Visual C# is easy to learn, making it an ideal language for students with no prior programming experience to understand fundamental programming concepts. Programming projects include Windows graphical forms, web, and database. This introductory course provides a firm foundation for further work in programming.

(3/45/0/0/0/0)

INFO-1400

Networking Essentials

Prerequisite or Co-requisite: INFO-1241

This course is a study of the fundamentals of current networking technology. Students learn to design, plan, implement, and support computer networks. The course introduces the full-range of computer networking from local-area networks to wide-area networks. The student is encouraged to take the Computing Technology Industry Association (CompTIA) Network+ certification exam. A current CompTIA Network+ certification is accepted as equivalent to this class. Contact the instructor for details.

(3/45/0/0/0/0)

INFO-1510

Introduction to Robotics

This course helps students utilize off the shelf robotic kits to design, build, and program robots to interact with the real world. The course teaches the student how mechanical, electronic, and software components interact within a mechatronic system. No previous experience is

required, though INFO-1210, INFO-1360, or previous programming experience is recommended.

(3/45/0/0/0/0)

INFO-2000
Advanced Microcomputer Applications

Prerequisite: INFO-1100

This course expands upon the basic knowledge of software applications by exploring and using advanced features of word processing, spreadsheets, and presentation graphics. Database tables, forms, queries, and reports are introduced. Additional topics include the integration of software applications. The student is encouraged to take the Microsoft Office Specialist exam for Word, Word Expert, Excel, Excel Expert, and PowerPoint.

(3/45/0/0/0/0)

INFO-2040
SQL Database Design & Management

Prerequisite: INFO-1040

This course introduces fundamental Relational Database Management Systems (RDMS) design, implementation, and management. Included topics are E-R diagrams, Structured Query Language (SQL), queries, tables, schema, and normalization. Students will create a real world application using a RDMS. This course provides a foundation for advanced work in managed database systems.

(3/45/0/0/0/0)

INFO-2275
Project Management

Prerequisite: INFO-1100

Project management is the discipline of defining and managing the vision, tasks, and resources required to complete a project. This course presents an integrated view of the different concept skills, tools, and techniques involved in project management. The student learns to work with the project management constraints of time, resources, scope, and quality.

(3/45/0/0/0/0)

INFO-2350
Introduction to Computer Science

Prerequisite: MATH-1010 or ACCUPLACER® (or other appropriate placement test)

This course is a study of computer programming, problem solving methods, and accepted software development practices using Java, a high level programming language. Topics include the fundamentals of Java procedural programming, object oriented programming, and introduction of some advanced features of Java. This course prepares the student for further study in computer science.

(3/45/0/0/0/0)

INFO-2355
Computer Science I

Prerequisite: INFO-2350

This course is an extension of INFO-2350 including the study of object oriented programming, problem solving, and accepted programming practices. Topics include class and object development, object oriented design, GUI, and data abstraction. This class prepares the student for further study in computer science.

(3/45/0/0/0/0)

INFO-2426
Linux

Prerequisite: INFO-1241

This course is designed to provide the student with an in-depth study of the Linux operating system. Topics include Linux distributions, installation, administration, X-Windows, networking, and security. There are extensive hands-on projects, exercises, and reinforcement of concepts. The student learns about Linux terminology and features of the operating system, gains a solid understanding of core Linux concepts, and develops the practical skills necessary to successfully install and manage Linux. The student is encouraged to take the CompTIA Linux+ certification exam. The CompTIA Linux+ certification can be accepted as equivalent for this class. Contact the instructor for details.

(3/45/0/0/0/0)

INFO-2450
Windows Server

Pre- or co-requisites: INFO-1241 and INFO-1400

In this course, students learn, through lectures, discussions, demonstrations, textbook exercises, and classroom labs, the skills and knowledge necessary to help prepare them to design, implement, secure, administer, and troubleshoot a Windows-based server network.

(3/45/0/0/0/0)

INFO-2500
Information Technology Internship

Prerequisite: INFO-1241

Work experience is an important part of any educational program. This internship is intended to give students

experience in solving real world problems while working under the supervision of an employer and instructor. Students are compensated for their credits and earn one (1) credit for each 60 credits worked up to three (3) credits. Students must develop two (2) learning objectives per credit hour.

(1-3/0/0/0/0/60-180)

INFO-2600
Cybersecurity Essentials

Pre- or co-requisites: INFO-1241 and INFO-1400

This course provides an introduction to the fundamentals of network security including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. This course covers new topics in network security as well including psychological approaches to social engineering attacks, web application attacks, penetration testing, data loss prevention, cloud computing security, and application security programming development. The student is encouraged to take the CompTIA Security+ certification exam, which can also be accepted as equivalent for this class.

(3/45/0/0/0/0)

Management

MNGT-2500
Management Internship

Prerequisite: Enrollment in business curriculum with emphasis in management or business administration and instructor consent.

Work experience is required in an approved training site in cooperation with business operators. Students are supervised by the business management or supervisor and a WNCC program instructor. Students are compensated for their services and receive college credit.

(3/0/0/0/0/180)

Marketing

MRKT-2310
Marketing Internship I

Work experience is required in an approved training station in cooperation with operators of business enterprises. The coordinator of WNCC marketing and management courses and the employer supervise students. Students are compensated for their services and receive college credit.

(3/0/0/0/0/180)

MRKT-2320
Marketing Internship II

Work experience is required in an approved training station in cooperation with operators of business enterprises. The coordinator of WNCC marketing and management courses and the employer supervise students. Students are compensated for their services and receive college credit.

(3/0/0/0/0/180)

Mathematics

MATH-0070
Basic Mathematics

Prerequisite: ACCUPLACER (or other appropriate placement test)

This is a developmental mathematics course with attention given to a review of fractions and decimals; ratios, proportions, and percent; measurement; geometry; and statistics and an introduction to the use of signed numbers and algebra.

(4/60/0/0/0/0)

MATH-M0070A
Modular Mathematics Level 1A

Prerequisite: ACCUPLACER (or other appropriate placement test)

This course is taught in modules, which students complete in a self-paced online course. The course has an instructor that assists students in the mastery of topics and accessing the computer lab and the Math Center. Module 1 (A, B, C) student learning outcomes are equivalent to Basic Mathematics (MATH-0070). Students may move through the modules as quickly as they can.

(1/15/0/0/0/0)

MATH-M0070B
Modular Mathematics Level 1B

Prerequisite: Successful completion of MATH-M0070A

This course is taught in modules, which students complete in a self-paced online course. The course has an instructor that assists students in the mastery of topics and accessing the computer lab and the Math Center. Module 1 (A, B, C) student learning outcomes are equivalent to Basic

Mathematics (MATH-0070). Students may move through the modules as quickly as they can.

(1/15/0/0/0/0)

MATH-M0070C
Modular Mathematics Level 1C

Prerequisite: Successful completion of MATH-M0070B

This course is taught in modules, which students complete in a self-paced online course. The course has an instructor that assists students in the mastery of topics and accessing the computer lab and the Math Center. Module 1 (A, B, C) student learning outcomes are equivalent to Basic Mathematics (MATH-0070). Students may move through the modules as quickly as they can.

(1/15/0/0/0/0)

MATH-0160
Introductory Algebra

Prerequisite: MATH-0070 or ACCUPLACER (or other appropriate placement test)

This course is designed for students who have not taken a full year of algebra in high school or who wish to review algebra. Topics include operations on real numbers, equations and inequalities, introduction to graphing, polynomial expressions and factoring, and rational expressions and rational equations.

(4/60/0/0/0/0)

MATH-M0160A
Modular Mathematics Level 2A

Prerequisite: MATH-0070 or successful completion of MATH-M0070C

This course is taught in modules, which students complete in a self-paced online course. The course has an instructor that assists students in the mastery of topics and accessing the computer lab and the Math Center. Module 1 (A, B, C) student learning outcomes are equivalent to Introductory Algebra (MATH-0160). Students may move through the modules as quickly as they can.

(1/15/0/0/0/0)

MATH-M0160B
Modular Mathematics Level 2B

Prerequisite: Successful completion of MATH-M0160A

This course is taught in modules, which students complete in a self-paced online course. The course has an instructor that assists students in the mastery of topics and accessing the computer lab and the Math Center. Module 1 (A, B, C) student learning outcomes are equivalent to Introductory Algebra (MATH-0160). Students may move through the modules as quickly as they can.

(1/15/0/0/0/0)

MATH-M0160C
Modular Mathematics Level 2C

Prerequisite: Successful completion of MATH-M0160B

This course is taught in modules, which students complete in a self-paced online course. The course has an instructor that assists students in the mastery of topics and accessing the computer lab and the Math Center. Module 1 (A, B, C) student learning outcomes are equivalent to Introductory Algebra (MATH-0160). Students may move through the modules as quickly as they can.

(1/15/0/0/0/0)

MATH-1010
Intermediate Algebra

Prerequisite: MATH-0160 or ACCUPLACER®(or other appropriate placement test)

This course is for students who have completed only one year of high school algebra or MATH-0160. Topics include functions, graphing, systems of equations, inequalities, polynomials and polynomial functions, rational expressions and rational equations, exponents and radicals, and quadratic functions.

(4/60/0/0/0/0)

MATH-M1010A
Modular Mathematics Level 3A

Prerequisite: MATH-0160 or successful completion of MATH-M0160C

This course is taught in modules, which students complete in a self-paced online course. The course has an instructor that assists students in the mastery of topics and accessing the computer lab and the Math Center. Module 1 (A, B, C) student learning outcomes are equivalent to Intermediate Algebra (MATH-1010). Students may move through the modules as quickly as they can.

(1/15/0/0/0/0)

MATH-M1010B
Modular Mathematics Level 3B

Prerequisite: Successful completion of MATH-M1010A

This course is taught in modules, which students complete in a self-paced online course. The course has an instructor that assists students in the mastery of topics and accessing the computer lab and the Math Center. Module 1 (A, B, C) student learning outcomes are equivalent to

Intermediate Algebra (MATH-1010). Students may move through the modules as quickly as they can.

(1/15/0/0/0/0)

MATH-M1010C
Modular Mathematics Level 3C

Prerequisite: Successful completion of MATH-M1010B

This course is taught in modules, which students complete in a self-paced online course. The course has an instructor that assists students in the mastery of topics and accessing the computer lab and the Math Center. Module 1 (A, B, C) student learning outcomes are equivalent to Intermediate Algebra (MATH-1010). Students may move through the modules as quickly as they can.

(1/15/0/0/0/0)

MATH-1020
Technical Mathematics

Prerequisite: MATH-0070 or ACCUPLACER (or other appropriate placement test)

This course is for students pursuing an Associate of Applied Science degree in a career/technical area. The course provides a review of arithmetic operations, exponents, algebraic operations, and right triangle trigonometry with emphasis placed on application.

(3/45/0/0/0/0)

MATH-1125
Integrated Algebra

Prerequisite: ACCUPLACER (or other appropriate placement test)

This course is an accelerated version of MATH-0160 and MATH-1010. Topics include operations on real numbers; equations and inequalities; graphing, polynomial expressions, and factoring; functions; systems of equations; polynomials and polynomial functions; rational expressions and rational equations; exponents and radicals; and quadratic functions. Students who successfully complete this course will fulfill the requirements for both MATH-0160 and MATH-1010.

(5/75/0/0/0/0)

MATH-1150
College Algebra

Prerequisite: MATH-1010 or ACCUPLACER (or other appropriate placement test)

This course is the study of relations, functions, and their graphs; equations and inequalities; polynomial and rational functions; exponential and logarithmic functions; and systems of equations and inequalities.

(4/60/0/0/0/0)

MATH-1170
Mathematical Applications

Prerequisite: MATH-1010 or ACCUPLACER (or other appropriate placement test)

This course covers a variety of mathematical topics such as set theory, numeration systems, counting methods, logic, problem solving strategies, consumer math, and probability and statistics. Students learn college-level techniques in a variety of mathematical areas, including an analysis of how to best use each technique in certain situations. The algebra prerequisite for the course reflects the need for students to have an understanding of the conceptual aspects of mathematics rather than a need for them to remember the details of how to solve all the types of algebra problems encountered in high school algebra.

(3/45/0/0/0/0)

MATH-1180
Math for Elementary Teachers

Prerequisite: MATH-1010 or ACCUPLACER (or other appropriate placement test)

Designed primarily for prospective elementary teachers, this course covers an introduction to problem solving, sets, whole numbers, integers, rational numbers/fractions, real numbers, decimals, functions, numeration systems, algebraic thinking, and number theory.

(3/45/0/0/0/0)

MATH-1210
Trigonometry

Prerequisite: MATH-1150 or ACCUPLACER (or other appropriate placement test)

This course is a study of trigonometry and its applications. Topics include trigonometric functions, analytic trigonometry, and applications of trigonometry from engineering and the physical sciences.

(3/45/0/0/0/0)

MATH-1600
Analytic Geometry & Calculus I

Prerequisite: MATH-1210 or ACCUPLACER (or other appropriate placement test)

This course is a study of analytical geometry and single variable calculus. Topics include limits, continuity,

derivatives, applications of derivatives, integrals, and applications of integrals.

(5/75/0/0/0/0)

MATH-2150
Calculus II

Prerequisite: MATH-1600

This course is a continuation of MATH-1600 including applications of the integral, calculus of transcendental functions, techniques of integration, improper integrals, and infinite series.

(5/75/0/0/0/0)

MATH-2170
Applied Statistics

Prerequisite: MATH-1010 or ACCUPLACER (or other appropriate placement test)

This course is an introduction to basic probability and statistical methods that are used in a wide variety of disciplines. Topics include descriptive statistics, probability foundations, probability distributions, sampling distributions, methods of statistical inference, and bivariate relationships.

(3/45/0/0/0/0)

MATH-2200
Calculus III

Prerequisite: MATH-2150

This course is a continuation of MATH-2150 and includes a study of plane and solid analytic geometry, vectors, partial differentiation, and multiple integration.

(5/75/0/0/0/0)

MATH-2210
Applied Differential Equations

Prerequisite: MATH-2150

This course is an introduction to ordinary differential equations and their applications in the fields of engineering and the physical sciences. Topics address the formulation, analysis, and solution of first-, second-, and higher-order linear differential equations using a variety of methods including direction fields, integrating factors, variation of parameters, method of undetermined coefficients, Laplace transforms, numerical methods, and selected applications.

(3/45/0/0/0/0)

Medical Laboratory Technician

MEDT-1000
Introduction to Clinical Laboratory

Co-requisite: HLTH-1060 and/or admission to the Phlebotomy Program

This course will provide an overview of the clinical laboratory testing process. Emphasis will be placed on clinical laboratory safety issues, regulatory agencies, infection control policies, and professional responsibilities relative to other departments of healthcare.

(2/30/0/0/0/0)

MEDT-1005
Clinical Laboratory Operations

Prerequisite: Admission to the Medical Laboratory Technology (MLT) program or permission of instructor

This course will provide an overview of the clinical laboratory testing process, basic laboratory mathematics, testing methods, and quality control. Emphasis is placed on clinical laboratory safety issues, regulatory agencies, infection control policies, and professional responsibilities relative to other departments of healthcare.

(3/45/0/0/0/0)

MEDT-1010
Fundamentals of Phlebotomy

Co-requisite: Admission into the Phlebotomy (PBT), and/or Medical Laboratory Technician (MLT) program or permission of instructor

This course provides basic and advanced instruction on techniques, procedures, equipment, and issues pertaining to the proper collection of blood specimens for routine clinical laboratory testing. Emphasis is placed on infection prevention, universal precautions, proper patient identification, specimen processing, patient complications, arterial draw, unusual tests, non-blood specimens, quality assurance, and legal issues. MLT students who possess an active Phlebotomy Technician, PBT (ASCP) certificate through the American Society for Clinical Pathology Board of Certification (ASCP-BOC) may waive this course. Laboratory is concurrent with lecture.

(4/45/30/0/0/0)

MEDT-1210
Practicum: Phlebotomy

Co-requisite: MEDT-1010

This practicum will introduce the student to the profession and the practice of phlebotomy. Students will observe and practice phlebotomy skills and job tasks. Emphasis is placed on the application of phlebotomy knowledge and skills necessary to perform a variety of blood collection methods using proper techniques and precautions. The course will begin with a supervised clinical experience in a hospital or phlebotomy setting followed by an in-depth online review for the examination leading to certification as a phlebotomy technician.

(2.5/0/0/0/112.5/0)

MEDT-2100
Clinical Microbiology I

Prerequisite: Admission to the Medical Laboratory Technology (MLT) program or permission of instructor

This course examines the essential principles of bacteriology relative to human disease with emphasis on the characteristics of clinically significant microorganisms and their biomedical profile, media for isolation, and identification methods for selected pathogens. Emphasis is on competence in general procedures, such as cultivation, isolation and identification of organisms, and evaluation and interpretation of laboratory data. Laboratory is integrated with lecture.

(3/30/30/0/0/0)

MEDT-2110
Urinalysis & Body Fluids

Prerequisite: Admission to the Medical Laboratory Technician (MLT) program or permission of instructor

This course introduces the study of urine formation and the methodology in determining the physical, chemical, and microscopic properties of urine in normal and abnormal states. Properties of body fluids will be discussed. Emphasis will be placed on examination, interpretation, and handling of urine and body fluid specimens, safety, and quality control. Laboratory is integrated with the lecture.

(3/30/30/0/0/0)

MEDT-2120
Clinical Immunology

Prerequisite: Admission to the Medical Laboratory Technology (MLT) program or permission of instructor

This course introduces the science of immunology and serology through the study of theories and processes related to natural body defenses. Emphasis will be placed on the immune response and principles of antigen-antibody reactions. Laboratory is integrated with lecture.

(3/30/30/0/0/0)

MEDT-2130
Clinical Chemistry

Prerequisite: MATH-1010

This course provides theoretical, fundamental, and basic instrumentation methodologies and includes practical concepts associated with testing procedures used in the clinical chemistry laboratory. Primary focus will be on student performance of diagnostic testing with emphasis in liver, kidney, and pancreatic function and vitamin assays and their clinical correlation to disease states. Advanced topics in quality assurance, endocrine system, tumor markers, therapeutic drugs, and toxicology will be discussed. Laboratory is integrated with lecture.

(4/45/30/0/0/0)

MEDT-2140
Clinical Hematology & Hemostasis

Prerequisite: Admission to the Medical Laboratory Technician (MLT) program or permission of instructor

This course will provide theories and procedures of hematology and hemostasis. It includes human hematological disorders and classification based on clinical laboratory findings. Emphasis will be placed on formed elements of the blood and components of the coagulation cascade and their correlation with pathophysiology. Laboratory is integrated with lecture.

(4/45/30/0/0/0)

MEDT-2150
Clinical Immunohematology

Prerequisite: MEDT-2120

This is an introductory course to the theoretical principles and procedures in immunohematology and their application in the medical laboratory. It introduces basic genetics, blood collection and preservation, blood group antigens, and routine blood bank procedures. Transfusion safety and federal regulatory requirements are also included. Compatibility testing and antibody identification are emphasized. Laboratory is integrated with lecture.

(4/45/30/0/0/0)

MEDT-2160
Clinical Microbiology II

Prerequisite: MEDT-2100

This course examines the essential principles of bacteriology relative to human disease with emphasis on

the characteristics of clinically significant microorganisms and their biomedical profile, media for isolation, and identification methods for selected pathogens. Emphasis is on competence in general procedures, such as cultivation, isolation, and identification of organisms and evaluation and interpretation of laboratory data. Laboratory is integrated with lecture.

(4/45/30/0/0/0)

MEDT-2200
Practicum: Microbiology

Prerequisite: MEDT-2100 and MEDT-2160

This practicum provides the student with the opportunity to practice skills in a supervised clinical experience within a hospital or clinic laboratory. These experiences will focus on the principles and procedures of clinical microbiology. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices, and medical laboratory technician professionalism.

(3/0/0/0/135/0)

MEDT-2210
Practicum: Urinalysis

Prerequisite: MEDT-2110

This practicum provides the student with the opportunity to practice skills in a supervised clinical experience within a hospital or clinic laboratory. These experiences will focus on the principles and procedures of urinalysis and body fluids analysis. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices, and medical laboratory technician professionalism.

(2/0/0/0/90/0)

MEDT-2220
Practicum: Immunology

Prerequisite: MEDT-2120

This practicum provides the student with the opportunity to practice skills in a supervised clinical experience within a hospital or clinic laboratory. These experiences will focus on principles and procedures of immunology and serology. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices, and medical laboratory technician professionalism.

(2/0/0/0/90/0)

MEDT-2230
Practicum: Chemistry

Prerequisite: MEDT-2130

This practicum provides the student with the opportunity to practice skills in a supervised clinical experience within a hospital or clinic laboratory. These experiences will focus on principles and procedures of clinical chemistry. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices, and medical laboratory technician professionalism.

(3/0/0/0/135/0)

MEDT-2240
Practicum: Hematology

Prerequisite: MEDT-2140

This practicum provides the student with the opportunity to practice skills in a supervised clinical experience within a hospital or clinic laboratory. These experiences will focus on principles and procedures of hematology and hemostasis. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices, and medical laboratory technician professionalism.

(3/0/0/0/135/0)

MEDT-2250
Practicum: Immunohematology

Prerequisite: MEDT-2150

This practicum provides the student with the opportunity to practice skills in a supervised clinical experience within a hospital or clinic laboratory. These experiences will focus on principles and procedures of immunohematology. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices, and medical laboratory technician professionalism.

(3/0/0/0/135/0)

MEDT-2300
MLT Certification Exam Preparation Review

Prerequisite: MEDT-2200, MEDT-2230, MEDT-2240, and MEDT-2250

This course will provide students with concepts and techniques necessary to pass the Medical Laboratory Technician certification examination. Emphasis will be

placed on the application of critical thinking and theory of laboratory concepts.

(3/45/0/0/0/0)

Music

MUSC-1000
Music Convocation

Co-requisite: Enrollment in respective applied lesson course

This course requires attendance at weekly Music Convocation, performance in Music Convocation by the student, attendance at approved music performances, and supplemental instruction related to private music lessons. Registration is required each semester for all students enrolled in applied music courses. Pass/fail grade only; successful completion of four semesters required for all music degrees.

(0/15/0/0/0/0)

MUSC-1010
Music Appreciation

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a humanities requirement for AA or AS degree

This course is an introduction and overview of the history of Western art music, from the Middle Ages to modern times. Includes the elements of music, historical style periods, and major composers and selected works.

(3/45/0/0/0/0)

MUSC-1015I
Introduction to Woodwind Instruments

This course is designed for students who are beginning to play a woodwind instrument or a beginning, intermediate, or advanced non-degree seeking student. It is also for those interested in learning woodwind fundamentals before moving on to MUSC-1015. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. A student may take this course indefinitely; however, only four (4) credits may be used towards graduation requirements. This course may be audited or taken for credit.

(1/15/0/0/0/0)

MUSC-1015
Applied Music: Woodwind Instruments I

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. It is also for non-music majors that meet proficiency standards in a woodwind instrument. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1015P
Applied Music: Woodwind Instruments Performance I

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1020
Applied Music: Woodwind Instruments II

Prerequisite: MUSC-1015 and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Program or the AA Music Education program. It is also for non-music majors that meet proficiency standards in a woodwind instrument. Students will build on the skills learned in previous level(s) and must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1020P
Applied Music: Woodwind Instruments Performance II

Prerequisite: MUSC-1015P and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students will build on the skills learned in previous level(s) and must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1040I
Introduction to Brass Instruments

This course is designed for students who are beginning to play a brass instrument or a beginning, intermediate, or advanced non-degree seeking student. This course is for those interested in learning brass fundamentals before moving on to MUSC-1040. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. A student may take this course indefinitely; however, only four (4) credits may be used towards graduation requirements. This course may be audited or taken for credit.

(1/15/0/0/0/0)

MUSC-1040
Applied Music: Brass Instruments I

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in a brass instrument. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1040P
Applied Music: Brass Instruments Performance I

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1050
Applied Music: Brass Instruments II

Prerequisite: MUSC-1040

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1050P
Applied Music: Brass Instruments Performance II

Prerequisite: MUSC-1040P and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1060I
Introduction to String Instruments

This course is designed for students who are beginning to play a string instrument or a beginning, intermediate, or advanced non-degree seeking student. It is also for those interested in learning string fundamentals before moving on to MUSC-1060. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. A student may take this course indefinitely; however, only four (4) credits may be used towards graduation requirements. This course may be audited or taken for credit.

(1/15/0/0/0/0)

MUSC-1060
Applied Music: String Instruments I

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. It is also for non-music majors that meet proficiency standards in a string instrument. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1060P
Applied Music: String Instruments Performance I

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1070
Applied Music: String Instruments II

Prerequisite: MUSC-1060 and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. It is also for non-music majors that meet proficiency standards in a string instrument. Students will build on the skills learned in previous level(s), and must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1070P
Applied Music: String Instruments Performance II

Prerequisite: MUSC-1060P and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students will build on the skills leaned in previous level(s), and must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1090I
Introduction to Percussion Instruments

This course is designed for students who are beginning to play a percussion instrument or a beginning, intermediate, or advanced non-degree seeking student. This course is for those interested in learning percussion instruments fundamentals before moving on to MUSC-1090. The focus is on learning the basics of percussion and drum set. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. A student may take this course indefinitely; however, only four (4) credits may be used towards graduation requirements. This course may be audited or taken for credit.

(1/15/0/0/0/0)

MUSC-1090

Applied Music: Percussion Instruments I

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in percussion instruments. The focus is on snare drum, two mallet keyboards, multiple percussion, and drum set. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1090P

Applied Music: Percussion Instruments Performance I

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. The focus is on snare drum, two- and four-mallet keyboards, multiple percussion, timpani, and drum set. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1100

Applied Music: Percussion II

Prerequisite: MUSC-1090

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in percussion instruments. The focus is on snare drum, two mallet keyboards, multiple percussion, timpani, and drum set. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1100P

Applied Music: Percussion Instruments Performance II

Prerequisite: MUSC-1090P

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. The focus is on snare drum, two- and four-mallet keyboards, multiple percussion, timpani, and drum set. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1110

Keyboarding Skills I

Prerequisite: Instructor Consent

This is the first semester of a four-semester sequence for the beginning piano student and provides an introduction to playing the piano. Students develop skills in finger control, hand independence, and pedal technique, and . develop and demonstrate skills in note reading, interpreting meter signatures and corresponding rhythms found in that meter, simple harmonization of melodies, and sight reading.

(1/15/0/0/0/0)

MUSC-1111

Keyboarding Skills II

Prerequisite: MUSC-1110

This course is the second semester of a four-semester sequence for the beginning piano student and provides an introduction to playing the piano. Students continue to develop skills in finger control, hand independence, and pedal technique. Students continue to acquire and demonstrate skills in sight reading, interpreting meter and rhythm, simple harmonization of melodies using basic chords and proscribed chord progressions, and all major scales.

(1/15/0/0/0/0)

MUSC-1112
Keyboarding Skills III

Prerequisite: MUSC-1111

This is 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 and to acquire and demonstrate skills in sight reading (homophonic pieces, score part-reading, and hymnal reading), harmonization of melodies using all diatonic chord or prescribed chord progressions, and all harmonic minor scales. Students also demonstrate skills in transposition, basic accompanying technique, and singing and playing together.

(1/15/0/0/0/0)

MUSC-1113
Keyboarding Skills IV

Prerequisite: MUSC-1112

This is the final semester of a four-semester sequence for the beginning piano student. Students continue to develop skills in finger control, hand independence, and pedal technique and to acquire and demonstrate skills in sight reading (homophonic pieces, score part-reading, and hymnal reading), harmonization of melodies using all diatonic chord or prescribed chord progressions, and all harmonic major and minor scales. Students will also demonstrate skills in transposition, basic accompanying technique, and singing and playing together.

(1/15/0/0/0/0)

MUSC-1115
Piano Proficiency Exam

This exam is to prove piano proficiency for music majors seeking an AFA degree. The student is required to receive a satisfactory grade on the Piano Proficiency Exam to meet graduation requirements. This exam is transcripted and may be taken at any time.

(0/0/0/0/0/0)

MUSC-1120I
Introduction to Keyboard

This course is designed for students who are beginning to play keyboard or a beginning, intermediate, or advanced non-degree seeking student. This course is for those interested in learning keyboard fundamentals before moving on to MUSC-1120. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. A student may take this course indefinitely; however, only four (4) credits may be used towards graduation requirements. This course may be audited or taken for credit.

(1/15/0/0/0/0)

MUSC-1120
Applied Music: Keyboard I

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in keyboard. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. Students will study piano technique, including the following: posturing, fingering, hand position, scales, chords, arpeggios, and treble and bass clefs. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1120P
Applied Music: Keyboard Performance I

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Students will study piano technique, including the following: posturing, fingering, hand position, scales, chords, arpeggios, and treble and bass clefs. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1130
Applied Music: Keyboard II

Prerequisite: MUSC-1120

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in keyboard. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and

instructor's schedules. Students will study piano technique, including the following: posturing, fingering, hand position, scales, chords, arpeggios, and treble and bass clefs. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1130P
Applied Music: Keyboard Performance II

Prerequisite: MUSC-1120P

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Students will study piano technique, including the following: posturing, fingering, hand position, scales, chords, arpeggios, and treble and bass clefs. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1140I
Introduction to Voice

This course is designed for students who are either beginning to sing, students not enrolled in a course of study at WNCC, or students preparing to audition for MUSC-1140. Instruction on singing technique with an emphasis on range, diction, and tone is given. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. A student may take this course indefinitely; however, only four (4) credits may be use towards graduation requirements. This course may be audited or taken for credit.

(1/15/0/0/0/0)

MUSC-1140
Applied Music: Voice I

Prerequisite: Instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in voice. Students must meet all course proficiencies before moving on to the next level. The student studies vocal pedagogy and suitable solo materials. Emphasis is upon range, diction, and clarity of sound. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1141
Applied Music: Voice Performance I

Co-requisite: MUSC-1000

The course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. The student studies vocal pedagogy and suitable solo materials. Emphasis is upon range, diction, and clarity of sound. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and singing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1150
Applied Music: Voice II

Prerequisite: MUSC-1140 and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in voice. Students must meet all course proficiencies before moving on to the next level. The student studies vocal pedagogy and suitable solo materials. Emphasis is upon range, diction, and clarity of sound. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1151
Applied Music: Voice Performance II

Prerequisite: MUSC-1141

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. The student studies vocal pedagogy and suitable solo

materials. Emphasis is upon range, diction, and clarity of sound. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and singing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedules. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1160
Western Nebraska Winds

Prerequisite: High school band experience (or equivalent)

Western Nebraska Winds is a traditional concert band open to all students with suitable instrumental background. An audition/interview is required for all new band members. The band presents one to two concert programs each semester and provides suitable music for various College functions.

(1/0/45/0/0/0)

MUSC-1200
Collegiate Chorale

Prerequisite: ENGL-0065 or ACCUPLACER (or other appropriate placement exam)

Collegiate Chorale, a traditional mixed chorus of men and women's voices, is the primary ensemble of the vocal music program. Collegiate Chorale performs the very finest vocal literature by master composers in two to four concerts per year, and focuses on the development of proper vocal technique, the performance of quality repertoire, and the practice of proper concert etiquette. This course may be taken for a total of (4) four semesters for credit.

(1/45/0/0/0/0)

MUSC-1230
Fire in The Pan Swingers

Prerequisite: Audition Required

Fire in the Pan Swingers is a traditional big band. While much of its repertoire is based in the Swing Era, it also pulls freely from more modern jazz, Latin jazz, show tunes, and rock. The Swingers typically perform two concert programs per semester. An audition is required for all new band members.

(1/0/45/0/0/0)

MUSC-1240
Varsity Vocalise

Prerequisite: Audition Required

Co-requisite: MUSC-1200

This select small ensemble sings the very best of pop, jazz, and Broadway favorites. Development of stage presence and poise, stage movement, vocal technique, and public relations skills are a primary goal. Varsity Vocalise performs often during the school day, evenings, and weekends and is a showcase for both the music program and the school within the community and the entire region. Audition is required. This course may be taken a total of four (4) semesters of credit.

(1/45/0/0/0/0)

MUSC-1260
Cougar Rock Band

Prerequisite: Audition Required

The Cougar Rock Band is a traditional rock band with a horn line. Its repertoire varies widely from year to year, based on student interests and abilities, as well as concert themes for the larger performances. Repertoire includes music from the 1950's through today, and styles include rock, funk, rap, country, R&B, and pop. The Cougar Rock Band typically performs 1-2 concert programs per semester. It also tours each semester. An audition is required for all new band members.

(1/0/45/0/0/0)

MUSC-1370I
Introduction to Guitar

This course is designed for students who are beginning to play guitar or a beginning, intermediate, or advanced non-degree seeking student. This course is for those interested in learning guitar fundamentals before moving on to MUSC-1370. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedules. A student may take this course indefinitely; however, only four (4) credits may be used towards graduation requirements. This course may be audited or taken for credit.

(1/15/0/0/0/0)

MUSC-1370
Applied Music: Guitar 1

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in guitar. Students must meet all course

proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1370P
Applied Music: Guitar Performance I

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies in guitar before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1380
Applied Music: Guitar II

Prerequisite: MUSC-1370

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors but meet proficiency standards in guitar or who have successfully passed MUSC-1370. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-1380P
Applied Music: Guitar Performance II

Prerequisite: MUSC-1370P

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies in MUSC-1370P before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-1410
Music Fundamentals

This course is designed for music theatre majors, though it can also be used by music majors as a precursor to the two-year music theory curriculum. A beginning course in the study of music reading, the curriculum centers on the performance of written music. Though both keyboard and vocal application are strongly emphasized, technique is not evaluated.

(3/45/0/0/0/0)

MUSC-1420
American Popular Music

Prerequisite: ENGL-0050 or ACCUPLACER (or other appropriate placement exam)

Satisfies a humanities requirement for AA or AS degree

This course provides a survey of the various styles of American popular music from 1840 to the present including folk music, ragtime, blues, jazz, and rock.

(3/45/0/0/0/0)

MUSC-1455
Music Theory I

Co-requisite: MUSC-1455L

This course is designed for music majors and minors. A beginning course in the study of the language of music, it covers the four fundamentals of music theory: keys, scales, intervals, and triads. Keyboard application, sight singing, and dictation are not included in this class, but are included in the accompanying lab.

(3/45/0/0/0/0)

MUSC-1455L
Music Theory I Lab

Co-requisite: MUSC-1455

This lab is designed for music majors and minors enrolled in MUSC-1455. This course will provide students with the opportunity to reflect upon and practice concepts from the lecture portion of MUSC-1455. It will emphasize keyboard application, sight singing, and rhythmic performance.

(1/0/30/0/0/0)

MUSC-1475
Music Theory II

Prerequisite: MUSC-1455 and MUSC-1455L

Co-requisite: MUSC-1475L

This course is a continuation of MUSC-1455, providing an advanced study of the harmonic materials in tonal music. It completes the study of non-harmonic tones and begins the study of altered chords. Diatonic harmony, diatonic modulation, basic form, and basic composition are taught. Keyboard application, sight singing, and dictation are not included in this class but are included in the accompanying lab.

(3/45/0/0/0/0)

MUSC-1475L
Music Theory II Lab

Prerequisite: MUSC-1455 and MUSC-1455L

Co-requisite: MUSC-1475

This lab is a continuation of MUSC-1455L and is designed for music majors and minors enrolled in MUSC-1475. This course will provide students with the opportunity to reflect upon and practice concepts from the lecture portion of MSUC-1475. It will emphasize keyboard application, sight singing, and rhythmic performance.

(1/0/30/0/0/0)

MUSC-2010
Applied Music: Woodwind Instruments III

Prerequisite: MUSC-1020 and Instructor Consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. It is also for non-music majors that meet proficiency standards in a woodwind instrument. Students will build on the skills learned in previous level(s), and must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2010P
Applied Music: Woodwind Instruments Performance III

Prerequisite: MUSC-1020P and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students will build on the skills learned in previous level(s) and must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2020
Applied Music: Woodwind Instruments IV

Prerequisite: MUSC-2010 and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. It is also for non-music majors that meet proficiency standards in a woodwind instrument. Students will build on the skills learned in previous level(s). Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2020P
Applied Music: Woodwind Instruments Performance IV

Prerequisite: MUSC-2010P and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students will build on the skills learned in previous level(s). Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2040
Applied Music: Brass Instruments III

Prerequisite: MUSC-1050

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in a brass instrument after successfully completing MUSC-1050. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2040P
Applied Music: Brass Instruments Performance III

Prerequisite: MUSC-1050P

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2050
Applied Music: Brass Instruments IV

Prerequisite: MUSC-2040

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in a brass instrument after successfully completing MUSC-2040. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2050P
Applied Music: Brass Instruments Performance IV

Prerequisite: MUSC-2040P

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2060
Applied Music: String Instruments III

Prerequisite: MUSC-1070 and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. It is also for non-music majors that meet proficiency standards in a string instrument. Students will build on the skills learned in previous level(s), and must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2060P
Applied Music: String Instruments Performance III

Prerequisite: MUSC-1070P and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students will build on the skills learned in previous level(s), and must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-

requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2070

Applied Music: String Instruments IV

Prerequisite: MUSC-2060 and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. It is also for non-music majors that meet proficiency standards in a string instrument. Students will build on the skills learned in previous level(s). Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2070P

Applied Music: String Instruments Performance IV

Prerequisite: MUSC-2060P and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students will build on the skills learned in previous level(s). Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2090

Applied Music: Percussion Instruments III

Prerequisite: MUSC-1100

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in percussion instruments. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. The focus is on snare drum, two and four mallet keyboards, multiple percussion, timpani and drum set. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2090P

Applied Music: Percussion Instruments Performance III

Prerequisite: MUSC-1100P

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. The focus is on snare drum, two- and four-mallet keyboards, multiple percussion, timpani, and drum set. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2100

Applied Music: Percussion Instruments IV

Prerequisite: MUSC-2090

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in percussion instruments. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. The focus is on snare drum, two and four mallet keyboards, multiple percussion, timpani and drum set. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2100P

Applied Music: Percussion Instruments Performance IV

Prerequisite: MUSC-2090P

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private

lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. The focus is on snare drum, two- and four-mallet keyboards, multiple percussion, timpani, and drum set. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2120
Applied Music: Keyboard III

Prerequisite: MUSC-1130

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors but meet proficiency standards in keyboard. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. Students will study piano technique, including the following: posturing, fingering, hand position, scales, chords, arpeggios, and treble and bass clefs. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2120P
Applied Music: Keyboard Performance III

Prerequisite: MUSC-1130P

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Students will study piano technique, including the following: posturing, fingering, hand position, scales, chords, arpeggios, and treble and bass clefs. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2130
Applied Music: Keyboard IV

Prerequisite: MUSC-2120

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in keyboard. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. Students will study piano technique, including the following: posturing, fingering, hand position, scales, chords, arpeggios, and treble and bass clefs. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2130P
Applied Music: Keyboard Performance IV

Prerequisite: MUSC-2120P

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Students will study piano technique, including the following: posturing, fingering, hand position, scales, chords, arpeggios, and treble and bass clefs. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2140
Applied Music: Voice III

Prerequisite: MUSC-1150 and instructor consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors but meet proficiency standards in voice. Students must meet all course proficiencies before moving on to the next level. The student studies vocal pedagogy and suitable solo materials. Emphasis is upon range, diction, and clarity of sound. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the

student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2141
Applied Music: Voice Performance III

Prerequisite: MUSC-1151

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and singing skills required in the professional music industry. The student studies vocal pedagogy and suitable solo materials. Emphasis is upon range, diction, and clarity of sound. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons

(2/30/0/0/0/0)

MUSC-2150
Applied Music: Voice IV

Prerequisite: MUSC-2140 and Instructor Consent

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors but meet proficiency standards in voice. Students must meet all course proficiencies before moving on to the next level. The student studies vocal pedagogy and suitable solo materials. Emphasis is upon range, diction, and clarity of sound Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule.. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2151
Applied Music: Voice Performance IV

Prerequisite: MUSC-2141

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and singing skills required in the professional music industry. The student studies vocal pedagogy and suitable solo materials. Emphasis is upon range, diction, and clarity of sound. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2160
Applied Music: Diction for Singers I

Prerequisite: MUSC-1151

In this course, the student studies, writes, and performs the phonetics and pronunciation of the International Phonetic Alphabet (IPA) as it applies to singing in English, Latin, and Italian. Meeting times will be arranged individually between instructor and student.

(2/30/0/0/0/0)

MUSC-2170
Applied Music: Diction for Singers II

Prerequisite: MUSC-2160

In this course, the student studies, writes, and performs the phonetics and pronunciation of the International Phonetic Alphabet (IPA) as it applies to singing in German, French, and Spanish. Meeting times will be arranged individually between instructor and student.

(2/30/0/0/0/0)

MUSC-2180
Applied Music: Guitar III

Prerequisite: MUSC-1380

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors that meet proficiency standards in guitar or who have successfully passed MUSC-1380. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2180P
Applied Music: Guitar Performance III

Prerequisite: MUSC-1380P

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all

course proficiencies in MUSC-1380P before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2190
Applied Music: Guitar IV

Prerequisite: MUSC-2180

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music program or the AA Music Education program. This course is also for non-music majors but meet proficiency standards in guitar or who have successfully passed MUSC-2180. Students must meet all course proficiencies before moving on to the next level. Instruction is delivered weekly in a 30-minute private lesson. Meeting times are arranged to fit the student's and instructor' schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(1/15/0/0/0/0)

MUSC-2190P
Applied Music: Guitar Performance IV

Prerequisite: MUSC-2180P

Co-requisite: MUSC-1000

This course is designed for students who are in the AFA Music Performance program. Students must meet all course proficiencies in MUSC-2180P before moving on to the next level. Instruction is delivered weekly in a one-hour private lesson designed to help students gain comprehensive teaching and playing skills required in the professional music industry. Meeting times are arranged to fit the student's and instructor's schedule. Students must pass co-requisite MUSC-1000 in order to receive a passing grade in applied lessons.

(2/30/0/0/0/0)

MUSC-2455
Music Theory III

Prerequisite: MUSC-1475 and MUSC-1475L

Co-requisite: MUSC-2455L

This course is a continuation of MUSC-1475. Altered chords, chromatic modulation, and techniques for suspension of tonality are taught. The study of forms (both large and small) is continued. Keyboard application, sight singing, and dictation are not included in this class, but are included in the accompanying lab.

(3/45/0/0/0/0)

MUSC-2455L
Music Theory III Lab

Prerequisite: MUSC-1475 and MUSC-1475L

Co-requisite: MUSC-2455

This lab is a continuation of MUSC-1475L and is designed for music majors and minors enrolled in MUSC-2455. This course will provide students with the opportunity to reflect upon and practice concepts from the lecture portion of MUSC-2455. It will emphasize keyboard application, sight singing, and rhythmic performance.

(1/0/30/0/0/0)

MUSC-2475
Music Theory IV

Prerequisite: MUSC-2455 and MUSC-2455L

Co-requisite: MUSC-2475L

This course is a continuation of MUSC-2455 and provides an overview of many of the "isms" of twentieth-century classical music (impressionism, serialism, etc.). The course includes a large composition component. The use of music-publishing software will be included. Keyboard application, sight singing, and dictation are not included in this class, but are included in the accompanying lab.

(3/45/0/0/0/0)

MUSC-2475L
Music Theory IV Lab

Prerequisite: MUSC-2455 and MUSC-2455L

Co-requisite: MUSC-2475

This lab is a continuation of MUSC-2455L and is designed for music majors and minors enrolled in MUSC-2475. This course will provide students with the opportunity to reflect upon and practice concepts from the lecture portion of MUSC-2475. It will emphasize keyboard application, sight singing, and rhythmic performance.

(1/0/30/0/0/0)

Nursing

NURS-1410
Pharmacology I

Prerequisite: Admission to the Practical Nursing program

Co-requisites: LPNR-1250 and LPNR-1270

This course provides students with a working knowledge of the concepts of pharmacology, including classification,

indication of use, mechanism of action, adverse effects, contraindications, drug interactions, and nursing responsibilities of safe medication administration. The nursing process, dosage calculations, client and family education, and age-appropriate techniques are incorporated as they apply safe administration of medications to clients of all ages. Selected content and drug classes examined in the course include basic math concepts, introduction to pharmacology, intravenous therapy, and drugs affecting the endocrine, immune, urinary, and gastrointestinal systems.

(2/22.5/15/0/0/0)

NURS-1480

Pharmacology II

Prerequisite: Completion of first semester of the Practical Nursing program

Co-requisites: LPNR-2280, LPNR-2290, and LPNR-2720

This theory course is a continuation of NURS-1410. The course explains drug effects on body systems not previously covered in NURS-1410 and focuses on classification, indication of use, mechanism of action, adverse effects, contraindications, drug interactions, and nursing responsibilities for safe medication administration. Students continue to use math computation skills for drug calculations. The course reinforces the nursing process and age-appropriate techniques as they apply to safe administration of medication to clients of all ages. Selected content and drug classes examined in this course include drugs affecting the cardiovascular, peripheral nervous, respiratory, neuromuscular, and central nervous systems, and drugs used to manage pain.

(2/30/0/0/0/0)

NURS-2000

National Council Licensure Exam-Registered Nurse (NCLEX-RN) Review

Prerequisite: Successful completion of any registered nurse curriculum or anticipated successful completion within the next six months of any registered nurse curriculum.

This course provides the student with a review of the categories and content included in the NCLEX-RN (National Council Licensure Examination - Registered Nurse), emphasizing an assessment-based, individualized plan of review.

(2/30/0/0/0/0)

Nursing (Assistant/Aide)

NURA-1195

Basic Nursing Assistant

Prerequisites:

- ***Be at least 16 years of age.***
- ***Be able to speak and understand English.***
- ***Cannot be convicted of a crime involving moral turpitude.***
- ***Successfully complete 80 clock credits of training and state testing approved by the Nebraska Department of Health and Human Services.***

This course is designed to provide students with the essential knowledge and skills to deliver basic care to resident/clients of healthcare facilities. Topics include: resident rights, communications, safety, observations, reporting and assisting residents/clients in maintaining basic comfort and safety. Upon completion of the course, the student will arrange to take a written or oral examination and will demonstrate skill competency. The course is designed to meet the training requirements of the federal and Nebraska state law for nursing assistants working in licensed facilities.

(4.5/45/35/0/0/0)

Nursing (AD-N)

ADNR-1000

Associate Degree Nursing (AD-N) Traditional Program Review for Readmission

Prerequisites:

- ***Successful completion of ATI critical thinking entrance exam with a minimum score of 60.***
- ***Successful completion of TEAS exam with a score at Proficiency Level or higher.***
- ***Entrance exam scores must be within past two years.***
- ***Letter of desire to reenter the Associate Degree Nursing (AD-N) program must be sent to the Nursing Program Director by procedure deadline***.

The student will be registered for the appropriate ADNR-1000 course when these criteria have been met.

Notes:

- The student is only eligible to apply for readmission into the program for the academic year following withdrawal.
- The student can re-enter the program **one time only.**

- Completion of this course does not guarantee readmission into the program. There must be an opening in the current cohort for the student to be readmitted. The cohort group can hold a maximum of 16 students in the first year of the program and 24 students in the second year of the program.
- Upon successful completion of the re-entry course, the student must meet the physical, immunization, background check, CPR, liability insurance, and clinical orientation requirements of the program.
- This re-entry course must be completed at least two (2) weeks prior to the beginning date of the ADNR course to be entered.

This pass/no pass course provides the student with an opportunity to demonstrate competence in the application of nursing theory and skills attained in successfully completed associate degree nursing courses (ADNR prefix courses) prior to reentry into the AD-N Program. Prior to demonstrating competence in skills, the student will review and update his/her knowledge of asepsis, sterile technique, positioning, range of motion exercises, safety measures, documentation, dosage calculation, medication administration principles and techniques, intravenous therapy, assessment, the nursing process, and nursing theoretical knowledge associated with previously successfully completed AD-N courses. The student will have access to videos and the nursing lab to practice the skills individually to refresh his/her knowledge prior to the class. Competence in the application of nursing theory and skills will be demonstrated through 100% accuracy on Nursing Program math exam, Level I score or greater proficiency on required ATI Content Mastery exams, clinical evaluation, clinical simulations, and return demonstrations.

(0.5/0/22.5/0/0/0)

ADNR-1005

Associate Degree Nursing (AD-N) Advanced Placement Review for Readmission

Prerequisites:

- ***Successful completion of HESI LPN-ADM entrance exam with a minimum score of 850.***
- ***Successful completion of ATI critical thinking entrance exam with a minimum score of 60.***
- ***Entrance exam scores must be within past two years.***
- ***Current unencumbered LPN license.***
- ***Letter of desire to reenter the Advanced Placement Associate Degree - Nursing (AD-N) program must be sent to the Nursing Program Director by procedure deadline.***

The student will be registered for the appropriate ADNR-2000 course when these criteria have been met.

Notes:

- The student is only eligible to apply for readmission into the program for the academic year following withdrawal.
- The student can re-enter the program **one time only.**
- Completion of this course does not guarantee readmission into the program. There must be an opening in the current cohort for the student to be readmitted. The cohort group can hold a maximum of 16 students in the first year of the program and 24 students in the second year of the program.
- Upon successful completion of the re-entry course, the student must meet the physical, immunization, background check, CPR, liability insurance, and clinical orientation requirements of the program.
- This re-entry course must be completed at least two (2) weeks prior to the beginning date of the ADN course to be entered.

This pass/no pass course provides the student currently holding an unencumbered LPN license with an opportunity to demonstrate competence in application of nursing theory and skills attained in successfully completed Advanced Placement associate degree nursing courses (ADNR prefix courses) prior to reentry into the AD-N Program. Prior to demonstrating competence in skills, the students will review and update their knowledge of asepsis, sterile technique, positioning, range of motion exercises, safety measures, documentation, dosage calculation, medication administration principles and techniques, intravenous therapy, assessment, the nursing process, and nursing theoretical knowledge associated with previously successfully completed AD-N courses. The student will have access to videos and the nursing lab to practice the skills individually to refresh his/her knowledge prior to the class. Competence in application of nursing theory and skills will be demonstrated through 100% accuracy on Nursing Department math exam and Level I score or greater on required ATI Content Mastery Exams, clinical evaluation, clinical simulations, and return demonstrations.

(0.5/0/22.5/0/0/0)

ADNR-1112
Fundamentals of Nursing Practice

Prerequisite: Admission to the AD-N Program

Co-requisites: ADNR-1112L, ADNR-1132, ADNR-1160, and ADNR-1160L

This five (5) credit hour theory/lab/clinical course is an introduction to basic nursing concepts and skills. Utilizing the nursing process, evidence-based practice, and Maslow's Hierarchy, students learn the specific concepts needed for planning nursing care to address the client's physiologic, psychosocial, and developmental needs. Topics include, but are not limited to, activities of daily living, asepsis, and safety. Content in the course is presented in three (3) theory credits and in two (2) lab/clinical credits.

(5/45/0/0/90/0)

ADNR-1112L
Fundamentals of Nursing Practice

Prerequisite: Admission to the AD-N Program

Co-requisite: ADNR-1112, ADNR-1132, ADNR-1160, and ADNR-1160L

ADNR-1122
Principles of Pharmacology I

Prerequisite: Admission to the AD-N Program

Co-requisites: ADNR-1134, ADNR-1141, ADNR-1141L, ADNR-1151, and ADNR-115L or permission of the instructor

This theory course provides an overview of basic concepts of pharmacotherapeutics, pharmacokinetics, and pharmacodynamics and safe medication administration. Selected drug classes examined in this course include:

- drugs affecting the gastrointestinal system;
- antibiotic agents;
- drugs for pain management;
- drugs affecting the peripheral and central nervous systems;
- drugs affecting the cardiovascular system;
- drugs affecting the respiratory system;
- drugs affecting the renal system; and
- drugs affecting the endocrine systems (excluding pituitary and adrenal agents).

Prototype agents for each class are examined, including indications, mechanism of action, precautions, contraindications, adverse effects, routes of administration and nursing implications, including client/family teaching.

(2/30/0/0/0/0)

ADNR-1132
Pathophysiology I

Prerequisite: BIOS-2250, BIOS-2260, and admission into the AD-N Program or permission of the instructor

This is the first part of a two-part theory course in pathophysiology. This course focuses on the pathophysiologic basis for alterations in adult health. Concepts covered include selected alterations in protection, homeostasis, function, and regulation (i.e. cell and tissue biology, biology of cancer and tumor spread, integument, immunity, stress, and comfort).

(2/30/0/0/0/0)

ADNR-1134
Pathophysiology II

Prerequisite: ADNR-1132 or permission of the instructor

This is the second partof a two-part theory course in pathophysiology. This course focuses on the pathophysiologic basis for alterations in adult health. Concepts covered include alterations in selected regulatory and homeostatic mechanisms and selected body systems (i.e. hormones, neurologic function, musculoskeletal, digestive, pulmonary, cardiovascular and lymphatic systems).

(2/30/0/0/0/0)

ADNR-1141
Adult Health & Illness I

Prerequisite: ADNR-1112, ADNR-1112L, ADNR-1132, ADNR-1160, ADNR-1160L, and BIOS-2050

Co-requisites: ADNR-1122, ADNR-1134, and ADNR-1141L

This four (4) credit hour theory/lab/clinical course is the first of four courses presented to develop an understanding of health promotion and illness in the adult client. Emphasis is placed on the role of the registered nurse in providing client care as a member of an interdisciplinary healthcare team. The nursing process, evidence-based practice, and Maslow's Hierarchy are utilized as the conceptual bases for presentation of this material. Topics include the introduction to nursing care of the adult client; fluid, electrolyte and acid/base balance; perioperative care; skin integrity; musculoskeletal system; and upper gastrointestinal system. Content in the course is presented in two (2) theory credit hours and two (2) lab/clinical credit hours Clinical and simulated activities provide students with experience in client care.

(4/30/0/0/90/0)

ADNR-1141L

Adult Health & Illness I Lab/Clinical

Prerequisite: ADNR-1112, ADNR-1112L, ADNR-1132, ADNR-1160, ADNR-1160L,and BIOS-2050

Co-requisites: ADNR-1122, ADNR-1134, and ADNR-1141

ADNR-1151

Adult Health & Illness II

Prerequisite: ADNR-1112, ADNR-1112L,ADNR-1132, ADNR-1141, ADNR-1141L, ADNR-1160, ADNR-1160L, and BIOS-2050

Co-requisites: ADNR-1122 ADNR-1134, and ADNR-1151L

This four (4) credit hour theory/lab/clinical course is the second of four courses presented to develop an understanding of health promotion and illness in the adult client. Emphasis is placed on the role of the registered nurse in providing client care as a member of an interdisciplinary healthcare team. The nursing process, evidence-based practice, and Maslow's Hierarchy are utilized as the conceptual bases for presentation of this material. Topics include intestinal, respiratory and cardiovascular systems as well as care of the client with diabetes mellitus. Content in the course is presented in two (2) theory credit hours and two (2) lab/clinical credit hours. Clinical and simulated activities provide students with experience in client care.

(4/30/0/0/90/0)

ADNR-1151L

Adult Health & Illness II Lab/Clinical

Prerequisite: ADNR-1112, ADNR-1112L,ADNR-1132, ADNR-1141, ADNR-1141L, ADNR-1160, ADNR-1160L, and BIOS-2050

Co-requisites: ADNR-1122 ADNR-1134, and ADNR-1151

ADNR-1160

Health Assessment

Prerequisite: Admission to the AD-N program or instructor consent

Co-requisite: ADNR-1160L

This two (2) credit hour theory/lab course addresses health assessment of adult clients and facilitates development of competencies in assessment techniques. Health assessment includes analysis and interpretation of data from multiple sources including, but not limited to, laboratory and radiological reports; growth and development milestones; and health appraisal of physical, mental, nutritional, psychosocial, and cultural information. Critical thinking is emphasized. Domestic violence assessment is also addressed.

(2/22.5/15/0/0/0)

ADNR-1160L

Health Assessment Lab/Clinical

Prerequisite: Admission to the AD-N program or instructor consent

Co-requisite(s): ADNR-1160

ADNR-2112

Care of the Older Adult

Prerequisite: Successful completion of the first three (3) semesters for the traditional AD-N program or admission into the Advanced Placement (AP) program

Co-requisites: ADNR-1160 and ADNR-1160L (if not completed before admission), ADNR-2112L, ADNR-2122, ADNR-2122L, ADNR-2126, ADNR-2126L, ADNR-2141, and ADNR-2141L

This theory/lab/clinical course is presented to develop an understanding of health promotion, individualized aging, complexity of care, and vulnerabilities common to the older adult patient. Emphasis is placed on the role of the registered nurse as a member of an interdisciplinary healthcare team. The nursing process, evidence-based practice, and Maslow's Hierarchy are utilized as the conceptual bases for presentation of this material. Topics include theories and concepts of aging, communication, assessment and technical skills, illness and disease management, ethical competencies, and coordination of care as they apply to the older adult patient. Content in the course is presented in theory credit hours (2) and one half (0.5) lab/clinical credit hour. Clinical and simulated activities provide students with experience in patient care.

(2.5/30/0/0/22.5/0)

ADNR-2112L

Care of The Older Adult Lab/Clinical

Prerequisite: Successful completion of the first two (2) semesters for the traditional AD-N program or admission into the Advanced Placement (AP) program

Co-requisites: ADNR-1160 and ADNR-1160L (if not completed before admission), ADNR-2112, ADNR-2122, ADNR-2122L, ADNR-2126, ADNR-2126L, ADNR-2141, and ADNR-2141L

ANDR-2122

Principles of Pharmacology II

Prerequisite: Successful completion of the first two (2) semesters of the traditional AD-N program or admission into the Advanced Placement (AP) program

Co-requisites: ADNR-1160 and ADNR-1160L (if not completed before admission), ADNR-2112, ADNR-2112L, ADNR-2122L, ADNR-2126, ADNR-2126L, ADNR-2141, and ADNR-2141L

This theory/lab course examines the pharmacotherapeutics, pharmacokinetics, and pharmacodynamics of selected drug classifications, and safe intravenous therapy. Drug classes and therapeutic products explored in this course include:

- antiseptic and disinfecting agents;
- vitamins, minerals, and nutritional supplements;
- enteral and parenteral nutrition;
- fluid and electrolytes;
- blood and blood products;
- coagulation modifiers;
- drugs affecting the endocrine system (pituitary and adrenal agents);
- selected cardiovascular drugs (positive inotropic, antianginal); and
- anti-infectives (antivirals, TB, anti-fungals, anti-malarials, minoglycosides).

Selected prototype agents for each drug classification are examined including indications, mechanism of action, cautions, contraindications, adverse effects, routes of administration, and nursing implications including client/family teaching. Pharmacologic principles, standards and research evidence for intravenous therapy is also explored.

(2/22.5/15/0/0/0)

ADNR-2122L

Principles of Pharmacology II Lab/Clinical

Prerequisite: Successful completion of the first two (2) semesters of the traditional AD-N program or admission into the Advanced Placement (AP) program

Co-requisites: ADNR-1160 and ADNR-1160L (if not completed before admission), ADNR-2112, ADNR-2112L, ADNR-2122, ADNR-2126, ADNR-2126L, ADNR-2141, and ADNR-2141L

ADNR-2124

Principles of Pharmacology III

Prerequisite: Successful completion of the first three (3) semesters of the traditional AD-N program or successful completion of the first semester of the Advanced Placement (AP) program

Co-requisites: ADNR-2112, ADNR-2112L, ADNR-2126, ADNR-2126L, ADNR-2141, and ADNR-2141L

This theory course expands on the concepts of pharmacotherapeutics, pharmacokinetics, and pharmacodynamics explored in Pharmacology I and II. Drug classifications and prototypes examined in this course include those commonly used in patients with complex health problems. The drug classifications included are:

- cardiovascular agents (antidysrhythmics);
- immune and biologic modifiers;
- chemotherapeutic and anti-rheumatoid agents;
- selected antihypertensive agents (vasopressin, nitroprusside);
- blood forming agents;
- selected blood coagulation modifiers (e.g. thrombolytics); and
- osmotic diuretics.

(1/15/0/0/0/0)

ADNR-2126

Psychiatric/Mental Health Nursing

Prerequisite: Successful completion of the first three (3) semesters of the traditional AD-N program or admission into the Advanced Placement (AP) program

Co-requisites: ADNR-1160 and ADNR-1160L (if not completed before admission), ADNR-2112, ADNR-2112L, ADNR-2122, ADNR-2122L, ADNR-2126L, ADNR-2151, and ADNR-2151L

In this theory/lab/clinical course, the student is introduced to the concepts of psychiatric/mental health. The course emphasizes neurobiological theory, assessment, therapeutic communication, patient and family teaching, community resources, and pharmacology. The course includes concepts of care for the adolescent, adult, and older adult with psychiatric/mental health disorders. Continuing themes of growth and development across the life span, socio-cultural dimensions, patient advocacy, and ethical standards are also explored. Traditional psychotherapeutic and integrative health therapies are addressed. Clinical and simulated activities provide students with experience in patient care.

(3/37.5/0/0/22.5/0)

ADNR-2126L
Psychiatric/Mental Health Nursing Lab/Clinical

Prerequisite: Successful completion of the first two (2) semesters of the traditional AD-N program or admission into the Advanced Placement (AP) program

Co-requisites: ADNR-1160 and ADNR-1160L (if not completed before admission), ADNR-2112, ADNR-2112L, ADNR-2122, ADNR-2122L, ADNR-2126, ADNR-2141, and ADNR-2141L

ADNR-2134
Maternal Child Nursing

Prerequisite: Successful completion of the first three (3) semesters of the traditional AD-N program or admission to the Advanced Placement (AP) program

Co-requisites: ADNR-2124 , ADNR-2124L, ANDR-2134L, ADNR-2151, ADNR-2151L, ADNR-2175, and ADNR-2175L

This theory/lab/clinical course focuses on the childbearing and childrearing family. Utilizing the nursing process and evidence-based practice, the holistic needs of the childbearing and childrearing family are discussed. These concepts also will be used when planning care and patient teaching in the clinical area for these families. Theories of growth and development, cognitive development, and adaptation will be explored. Clinical and simulated activities provide students with experience in patient care.

(3.5/37.5/0/0/45/0)

ADNR-2134L
Maternal Child Nursing Lab/Clinical

Prerequisite: Successful completion of the first three (3) semesters of the traditional AD-N program or successful completion of the first semester of the Advanced Placement (AP) program.

Co-requisites: ADNR-2124 , ADNR-2124L, ADNR-2134, ADNR-2151, ADNR-2151L, ADNR-2175, and ADNR-2175L

ADNR-2141
Adult Health & Illness III

Prerequisite: Successful completion of the first two (2) semesters of the traditional AD-N program or admission into the Advanced Placement (AP) program

Co-requisites: ADNR-2112, ADNR-2112L, ADNR-2122, ADNR-2122L, ADNR-2126, ADNR-2126L, and ADNR-2141L

This four (4) credit hour theory/lab/clinical course is the third of four courses presented to develop an understanding of health promotion and illness in the adult client. Emphasis is placed on the role of the registered nurse as a member of an interdisciplinary healthcare team in providing client care. The nursing process, evidence-based practice, and Maslow's Hierarchy are utilized as the conceptual bases for presentation of this material. Topics include an introduction to the immune, hematologic, and renal systems, as well as selected theories and concepts related to community-based nursing. Content in the course is presented in two (2) theory hours and two (2) lab/clinical hours. Clinical and simulated activities provide students with experience in client care.

(4/30/0/0/90/0)

ADNR-2141L
Adult Health & Illness III Lab/Clinical

Prerequisite: Successful completion of the first two (2) semesters of the traditional AD-N program or admission into the Advanced Placement (AP) program

Co-requisites: ADNR-2112, ADNR-2112L, ADNR-2122, ADNR-2122L, ADNR-2126, ADNR-2126L, and ADNR-2141

ADNR-2151
Adult Health & Illness IV

Prerequisite: Successful completion of the first three (3) semesters of the traditional AD-N program or admission to the Advanced Placement (AP) program

Co-requisite: ADNR-2124, ADNRR-2124L, ADNR-2134, ADNR-2134L, ADNR-2151L, ADNR-2175, and ANDR-2175L

This theory/lab/clinical course is the final of four courses presented to develop an understanding of health promotion and illness in the adult patient. Emphasis is placed on the role of the registered nurse as a collaborative member of a healthcare team in the provision of patient care. The nursing process, evidence-based practice, and Maslow's Hierarchy are utilized as the conceptual bases for presentation of this material. Topics include the examination of emergency care and disaster preparedness concepts as well as complex, multi-system, and high acuity health problems:

- cardiovascular (i.e. dysrhythmias, shock, acute coronary syndromes)
- respiratory (i.e. acute respiratory distress syndrome, respiratory failure)
- neurological (i.e. spinal cord injury, CVA, traumatic brain injury)
- endocrine (i.e. pituitary, adrenal, thyroid, and parathyroid)

Clinical and simulated activities provide students with experience in patient care.

(3.5/30/0/0/67.5/0)

ADNR-2151L
Adult Health & Illness IV Lab/Clinical

Prerequisite: Successful completion of the first three (3) semesters of the traditional AD-N program or successful completion of the first semester of the Advanced Placement (AP) program

Co-requisite: ADNR-2124, ADNR-2134, ADNR-2134L, ADNR-2151, ADNR-2175, and ANDR-2175L

ADNR-2175
Transition to Nursing Practice

Prerequisite: Successful completion of the first three (3) semesters of the traditional AD-N program or successful completion of the first semester of the Advanced Placement (AP) program

This theory and lab/clinical course focuses on advancing the student's understanding of the roles and responsibilities of the registered nurse as a member of society, the nursing profession, and the interdisciplinary team in complex healthcare environments. The course emphasizes integration of leadership, communication, collaboration, management, and teaching/learning principles with knowledge from prior coursework to enrich clinical reasoning skills. Topics include historical perspectives; legal, ethical, and bioethical issues; quality management; nursing informatics; evidence-based practice; transition from novice to expert; continuing education and career development as applied in clinical practice and personal plans for development; and National Council Licensure Examination (NCLEX-RN) preparation.

(3.5/22.5/0/0/90/0)

ADNR-2175L
Transition to Nursing Practice Lab/Clinical

Prerequisite: Successful completion of the first three (3) semesters of the traditional AND program or successful completion of the first semester of the Advanced Placement (AP) program.

Nursing (Practical)

LPNR-1110
Body Structure & Function

Prerequisite: ENGL-1010 or ACCUPLACER® (or other appropriate placement test)

This course is designed to give the student a working knowledge of body structure and function from to cell (simple to complex) to all systems of the body.

(4/60/0/0/0/0)

LPNR-1235
Practical Nursing (PN) Review for Readmission

Prerequisite:

Letter of desire to reenter the Practical Nursing (PN) program must be sent to the Nursing Program Director by procedure deadline

The student will be registered for the appropriate LPNR-1235 course when these criteria have been met.

NOTES:

- A student is only eligible to apply for readmission into the program for the academic year following withdrawal.
- A student can re-enter the program once.
- Completion of this course does not guarantee readmission into the program. There must be an opening in the current cohort for the student to be readmitted.
- Upon successful completion of the reentry course, the student must meet the physical, immunization, background check, CPR, liability insurance, and clinical orientation requirements of the program.
- This reentry course must be completed at least 2 (two) weeks prior to the beginning date of the PN course to be entered.

This pass/no pass course provides the student with an opportunity to demonstrate competence in application of nursing theory and skills attained in successfully completed practical nursing courses (LPNR prefix courses) prior to reentry into the PN program. Prior to demonstrating competence in skills, the students will review and update their knowledge of asepsis, sterile technique, positioning, range of motion exercises, safety measures, documentation, dosage calculation, medication administration principles and techniques, practical nursing intravenous therapy, data collection, the nursing process, and nursing theoretical knowledge associated with previously successfully completed PN courses. The

student will have access to videos and the nursing lab to practice the skills individually to refresh their knowledge prior to the class. Competence in application of nursing theory and skills will be demonstrated through 100% accuracy on math exam, Level I score or greater proficiency on required ATI Content Mastery Exams, clinical evaluation, clinical simulations, and return demonstrations.

(0.5/0/22.5/0/0/0)

LPNR-1250
Concepts of Nursing

Prerequisite: Admission to the Practical Nursing program

Co-requisite: LPNR-1250L and NURS-1480

This theory/lab course is an introduction to nursing which focuses on basic nursing concepts, utilization of the nursing process, communication skills, legal and ethical issues related to nursing practice, and inquiry-based practice and skills necessary to provide patient-centered care within the scope of the practical nurse. The nursing process and theories of basic human needs are utilized in organizing delivery of inquiry based practice. Students will practice basic nursing skills in a laboratory, and/or simulated experiences. This is a seven (7) credit hour course: three (3) credits for theory and four (4) credits for laboratory experiences.

(7/45/120/0/0/0)

LPNR-1250L
Concepts of Nursing Lab

Prerequisite: Admission to the Practical Nursing program or permission of the instructor

Co-requisite: LPNR-1250

LPNR-1270
Medical/Surgical Nursing I

Prerequisite: Admission to the Practical Nursing Program and successful completion of LPNR-1250

Co-requisite: LPNR-1270C

In the medical/surgical nursing courses, a holistic approach is utilized to present the adult patient's health-illness continuum through the life span. Topics covered in Medical/Surgical Nursing I are health-illness issues related to fluid and electrolytes; care of the surgical patient; oncology; and endocrine, immune, renal, integumentary, and gastrointestinal systems. Students are provided with clinical experiences to enrich their learning and abilities in the application of nursing interventions within the scope of the practical nurse. This is a 5.5 credit hour course: three (3) credits of theory and 2.5 credits for laboratory/clinical experiences.

(5.5/45/0/0/112.5/0)

LPNR-1270C
Medical/Surgical Nursing I: Clinical

Prerequisite: Admission to the Practical Nursing Program

Co-requisite: LPNR-1270

LPNR-2280
Medical/Surgical Nursing II

Prerequisite: Successful completion of the second semester of the Practical Nursing program

Co-requisites: LPNR-2280C, LPNR-2720, and NURS-1480

In the medical/surgical nursing courses, a holistic approach is utilized to present the adult patient's health-illness continuum through the life span. Topics covered in Medical/Surgical Nursing II are health-illness issues related to respiratory, hematology, cardiovascular, musculoskeletal, neurological/sensory, behavioral health, and integumentary part II. Students are provided with clinical experiences to enrich their learning and abilities in the application of nursing intentions within the scope of the practical nurse. This is a 5.5 credit hour course: 3 credits for theory and 2.5 credits for laboratory/clinical experiences.

(5.5/45/0/0/112.5/0)

LPNR-2280C
Medical/Surgical Nursing II Clinical

Prerequisite: Successful completion of the second semester of the Practical Nursing program.

Co-requisite: LPNR-2280

LPNR-2290
Care of the Family

Prerequisite: Successful completion of the second semester of the Practical Nursing program

Co-requisites: LPNR-2290C, LPNR-2720, and NURS-1480

Fundamental concepts of the childbearing and childrearing family are explored. Emphasis is placed on basic human needs, growth and development, communication, and appropriate caring behaviors in each phase. Students will be given patient experience in obstetrics and pediatrics in the acute care facility as available and in the community to apply the concepts learned in theory with the scope of the practical nurse.

This is a 5.5 credit hour course: 3 credits for theory and 2.5 credits for laboratory/clinical experiences.

(5.5/45/0/0/112.5/0)

LPNR-2290C
Care of The Family Clinical

Prerequisite: Successful completion of the second semester of the Practical Nursing program

Co-requisite: LPNR-2290

LPNR-2720
Strategies for the LPN in Practice

Prerequisite: Successful completion of the second semester of the Practical Nursing program

Co-requisites: LPNR-2260, LPNR-2260L, LPNR-2630, and NURS-1480

This theory course is designed to assist the graduate practical nurse transitioning into the new role as an integral member of the health care team. Topics to be addressed include: licensure, workplace communication, current legal/ethical issues, management/leadership roles, health care environment, informatics in nursing, and a perspective on the profession of nursing.

(2/30/0/0/0/0)

LPNR-2725
Intravenous Therapy for the Licensed Practical Nurse

Prerequisite: Current State of Nebraska LPN license or a current license in a compact state under the Nurse Licensure Compact Act

This course is designed to prepare the Licensed Practical Nurse with essential intravenous therapy knowledge to meet re-licensure requirements in the State of Nebraska.

(1/8/14/0/0/0)

Personal Development

PRDV-1010
Achieving College Success

This course is designed to help students create greater success in college and life. It will teach proven strategies for producing greater academic, professional, and personal success.

(3/45/0/0/0/0)

Philosophy

PHIL-1010
Introduction to Philosophy

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a humanities requirement for AA or AS degree

Students will explore the components of philosophy through readings from the history of philosophy (ancient, modern, and contemporary) combined with the examination of topics such as metaphysics, logic, ethics, epistemology, aesthetics, philosophy of religion, freedom, and self-identity.

(3/45/0/0/0/0)

PHIL-1060
Introduction to Ethics & Current Issues in Philosophy

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a humanities or social science requirement for AA or AS degree

This course surveys a variety of current issues in relation to attempts made by philosophers to examine and resolve them. Specific issues covered vary by semester, but typically include topics such as the death penalty, abortion, euthanasia, artificial intelligence/computers, pornography and sexual morality, human cloning, racial and sexual discrimination, church/state balance, animal rights, drug policy, war, and torture.

(3/45/0/0/0/0)

PHIL-1150
Critical & Creative Thinking

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

An introduction to the study of arguments and reasoning with an emphasis on the principles of formal reasoning and their application. This course will examine the objective analysis, evaluation of arguments, and ways of improving critical thinking skills. Students will gain proficiency with systems of formal reasoning and construct sound arguments based on relevant evidence.

(3/45/0/0/0/0)

PHIL-2250

Environmental Ethics

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test) PHIL-1010 or PHIL-1060 is recommended but not required

Satisfies a humanities requirement for AA or AS degree

This course examines ethical questions arising from the interaction of human beings with the environment, including questions such as: what is moral value and where does it come from? Do things in what is often called "nature," such as individual organisms, species, or ecosystems, have moral value beyond their usefulness to human beings? Do humans have a moral obligation to preserve natural environments and protect biodiversity? How should we respond to global environmental challenges such as resource depletion, population growth and climate change?

(3/45/0/0/0/0)

PHIL-2610/RELS-2610

Comparative Religions

Cross-listed as PHIL-2610/RELS-2610 Comparative Religions/Introduction to Comparative Religion

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a humanities or social science requirement for AA or AS degree

This course offers a cross-cultural introduction to the world's major religious/philosophical traditions or faith systems through a comparison of historical origins, rituals, beliefs, practices, worldviews, original religious texts, and other important sources. This course offers an interdisciplinary approach to the study of religion and various approaches to the study of religious systems.

(3/45/0/0/0/0)

Photography

PHOT-1900

Black/White Photography I

This course places emphasis on camera operation and black and white photography including all phases of darkroom operation. Accessories and their use are fully covered. Students learn camera use and practice theories with actual photo requirements assigned.

Students must have access to a camera to carry out assignments. A lab fee will be assessed for each photography class for film, paper, and chemicals. Additional hours may be necessary to complete assignments.

(3/45/0/0/0/0)

PHOT-1920

Black/White Photography II

Prerequisite: PHOT-1900

This course is a continuation of PHOT-1900 with additional instruction in camera operation and darkroom principles and techniques.

Students must have access to a camera to carry out the assignments. A lab fee will be assessed for each photography class for film, paper, and chemicals. Additional hours may be needed to complete assignments.

(3/45/0/0/0/0)

Physical Education

PHED-1024

Yoga-Flex (Flexibility Through Yoga)

Students participate in a course designed to introduce them to basic yoga techniques and postures that improve their flexibility, balance, and overall strength.

(1/32/0/0/0/0)

PHED-1026

Yoga/Pilates Mix

Students participate in a course designed to introduce them to both basic yoga and Pilates postures and moves progressing to more advanced forms of both.

(1/32/0/0/0/0)

PHED-1029

Dance Fitness

Students participate in an aerobic format designed for cardiovascular development, muscle toning and flexibility, coordination, and overall body conditioning. Students are taught easy to follow steps/movements to four basic Latin rhythms (meringue, salsa, cumbia, reggae ton) along with dance elements from hip hop/pot and Bollywood music to create a dynamic fitness program.

(1/32/0/0/0/0)

PHED-1035

Cardio Fitness

Students participate in an anaerobic format designed for cardiovascular development, muscle toning and flexibility, coordination, and overall body conditioning.

Students will be taught easy to follow steps and movements along with a creative dynamic fitness program.

(1/32/0/0/0/0)

PHED-1060
Baseball: Men

This course is designed for student athletes. Fundamentals of hitting, throwing, and catching as well as the role of the defensive player are covered. Most of the class time is devoted to actual play of the game.

(.5/16/0/0/0/0)

PHED-1080
Soccer

This course is designed for student athletes. It covers attacking principles, defensive principles, organization of soccer, organization of practice, and skill work.

(.5/16/0/0/0/0)

PHED-1085
Basketball

This course is designed for student athletes. Fundamentals of communication, teamwork, passing, dribbling, and shooting, as well as the role of the defensive player are covered. Most of the class time is devoted to actual play of the game.

(.5/16/0/0/0/0)

PHED-1390
Softball

This course is designed for student athletes. The rules and play of the game are stressed. Fundamentals of catching, batting, pitching, base running, and strategy are essential parts of this course. Offensive and defensive strategies are covered.

(.5/16/0/0/0/0)

PHED-1490
Volleyball

This course is for student athletes. The student works toward mastering the techniques involved in both playing and officiating. Skills such as the pass, set, and spike are stressed, along with offensive and defensive strategies.

(.5/32/0/0/0/0)

PHED-1550
Weight Training

This course is designed for student athletes and consists of instruction in weight lifting and body building programs. Proper fundamental skill techniques for the various types of exercises are taught and practiced.

(.5/16/0/0/0/0)

PHED-1551
Weight Training

This course consists of instruction in weight lifting and body building programs. Proper fundamental skill techniques for the various types of exercises are taught and practiced.

(1/32/0/0/0/0)

PHED-1790
Personal Health

This course is a study of the factors involved in producing optimum healthful living, including the interrelationship between emotional and physical health. This does not count as a physical education activity class.

(3/45/0/0/0/0)

PHED-2010
Prevention & Care of Athletic Injuries

This course is designed to familiarize the student with current standards of care for athletic related injuries. Recognition, evaluation, care, prevention, and physiology of injuries will be discussed.

(3/45/0/0/0/0)

Physical Education/Coaching

ATHC-1200
Psychology of Sports

Prerequisite: PSYC-1810

This is a course written for students who are interested in learning about sport and exercise psychology and in using that knowledge in an applied setting. Information is based on material covered in Introduction to Psychology.

(3/45/0/0/0/0)

ATHC-1700
First Aid

The student studies standard first aid practices and procedures. This does not count as a physical education activity class.

(2/30/0/0/0/0)

ATHC-1710
Introduction to Physical Education

This course addresses the nature and scope of physical education; the philosophy of physical education as part of general education; the relationship of physical education to health, recreation, camping, and outdoor education; changing concepts of physical education; leadership in physical education; and the profession of physical education. This does not count as a physical education activity class.

(3/45/0/0/0/0)

ATHC-1730
Introduction to Coaching

A course designed for the prospective coach. The course encompasses development of a coaching philosophy, coaching character and ethics, communication skills, motivating athletes, skill progression, conditioning, strategies, psychological and organizational aspects of the game, battling drugs and alcohol, management of a team, relationships, and risk management.

(3/45/0/0/0/0)

Physical Sciences

PHYS-1070
Astronomy

Co-requisite: PHYS-1070L

This is a descriptive course on the origin and evolution of the universe, solar system, stars, galaxies, and beyond, including nighttime observations with telescopes.

(4/45/30/0/0/0)

PHYS-1070L
Astronomy Lab

Co-requisite: PHYS-1070

PHYS-1100
Physical Science

Co-requisite: PHYS-1100L

This is a survey course in the physical sciences with emphasis on scientific processes and problem solving. Areas of study will include selected topics in physics, chemistry, astronomy, geology, and meteorology. A scheduled laboratory will supplement classroom activities.

(4/45/30/0/0/0)

PHYS-1100L
Physical Science Lab

Co-requisite: PHYS-1100

PHYS-1200
Earth & Space Science

Co-requisite: PHYS-1200L

This course provides a survey of the four sub-disciplines of Earth science: astronomy, geology, meteorology, and oceanography. The processes and features related to the Earth's surface, interior, atmosphere, oceans, and astronomical surroundings are actively investigated. Analyses of the interrelationships among the four sub-disciplines are included. The course will demonstrate how the laws of nature provide a logical explanation for the physical workings of Earth as well as the universe. Laboratory experiences related to the study of these topics are made available.

(4/45/30/0/0/0)

PHYS-1200L
Earth & Space Science Lab

Co-requisite: PHYS-1200L

PHYS-1225
Science of Sports

Co-requisite: PHYS-1225L

This course is intended for non-science majors interested in understanding how scientific principles relate to various sports activities and sports performance. The course will use sports as the delivery platform in introducing and discussing first-year physics concepts such as kinematics, Newton's laws of motion, and conservation of momentum and energy. Focus will be on analyzing and understanding real-life sports examples using basic algebra, approximation, and qualitative arguments.

Note that this course will not satisfy physics requirements for science majors.

(4/45/30/0/0/0)

PHYS-1225L
Science of Sports Lab

Co-requisite: PHYS-1225

PHYS-1300
Physics I

Prerequisite: MATH-1210, concurrent enrollment, or ACCUPLACER® (or other appropriate placement test)

Co-requisites: PHYS-1300L and PHYS-1300R

This course is a study of the fundamental principles of physical science including mechanics, wave motion, sound, and heat. The course is designed to provide students with an understanding of physical phenomena and a background of physical principles to aid in the study of many science related fields.

(5/45/30/0/15/0)

PHYS-1300L
Physics I Lab

Co-requisites: PHYS-1300 and PHYS-1300R

PHYS-1300R
Physics I Recitation

Co-requisites: PHYS-1300 and PHYS-1300L

PHYS-1350
Physics II

Prerequisite: PHYS-1300

Co-requisites: PHYS-1350L and PHYS-1350R

A continuation of PHYS-1300, this course includes studies of magnetism, electricity, electronics, light, atomic structure, and a brief introduction to modern physics.

(5/45/30/0/15/0)

PHYS-1350L
Physics II Lab

Co-requisites: PHYS-1350 and PHYS-1350R

PHYS-1350R
Physics II Recitation

Co-requisites: PHYS-1350 and PHYS-1350L

PHYS-2400
Physics I with Calculus

Prerequisite: MATH-1600 or PHYS-1300

Co-requisites: PHYS-2400L and PHYS-2400R

This is a calculus-based study of the fundamental principles of physics, including classical mechanics, thermodynamics, and waves and sound. This course is designed to prepare the student in physical principles for entry into engineering and other physical science courses.

(5/45/30/0/15/0)

PHYS-2400L
Physics I with Calculus Lab

Co-requisites: PHYS-2400 and PHYS-2400R

PHYS-2400R
Physics I with Calculus Recitation

Co-requisites: PHYS-2400 and PHYS-2400L

PHYS-2450
Physics II with Calculus

Prerequisites: MATH-2150 and PHYS-2400

Co-requisites: PHYS-2450L and PHYS-2450R

This course is a continuation of PHYS-2400. It is a calculus-based course involving principles of electricity and magnetism, light and optics, and elements of modern physics. The course is designed for engineers and physical scientists.

(5/45/30/0/15/0)

PHYS-2450L
Physics II with Calculus Lab

Co-requisites: PHYS-2450 and PHYS-2450R

PHYS-2450R
Physics II with Calculus Recitation

Co-requisites: PHYS-2450 and PHYS-2450L

Political Science

POLS-1000
American Government

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a social science requirement for AA or AS degree

A study of the functioning of the political system through an analysis and application of its underlying theories.

(3/45/0/0/0/0)

POLS-1600
International Relations

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a social science requirement for AA or AS degree

This course studies the behavior of states in their relations with one another, drawing not only on diplomatic history but also on psychology, economic, and political theory. The course examines the last decade and the changes that have taken place in U.S. relationships with Asia, Africa, Russia, and Latin America; the relationships between

those other countries; and in the technology of war and the variants of peaceful attempts at conflict resolution.

(3/45/0/0/0/0)

Powerline Construction & Maintenance Technology

UTIL-1010
Staking/Mapping I

Prerequisite: Successful completion of MJTP Book 1

This course provides an introduction to mapping. Students are introduced to blueprints, architectural drawings, the use of "Plan and Profile" and ratios of vertical to horizontal scales.

(1/7.5/0/22.5/0/0)

UTIL-1020
Rigging I

Prerequisite: Successful completion of MJTP Book 1

This course instructs students in the use of rope for rigging. It covers the construction of and advantages and disadvantages of the different types of rope. Students learn how to make an eye splice using double braid rope.

(1/7.5/0/22.5/0/0)

UTIL-1030
Power Use I

Prerequisite: Successful completion of MJTP Book 1

This course introduces the student to the battery as a power source and explains its use as a standard for voltage calibration. The different parts of the battery and its construction are covered. Also covered are the consumer's service ratings listed in different diagrams and the meanings of these ratings.

(1/7.5/0/22.5/0/0)

UTIL-1040
Street Lighting I

Prerequisite: Successful completion of MJTP Book 1

This course introduces students to the various types of street lights and how they are classified. It covers the methods and procedures used related to the mechanics of the installation of street lights.

(1/7.5/0/22.5/0/0)

UTIL-1100
Introduction to Powerline Basics and Safety

This course serves as an introduction to the program and the electrical system. A schematic of a typical electric systems generation and distribution flow serves as a basis for a systematic analysis of the generating station to the distribution transformers. Includes an introduction to poles and towers, grounds and grounding and basic tree trimming. Students will complete a CPR course as part of this course.

(3.5/33.75/0/56.25/0/0)

UTIL-1150
Safety

Prerequisite: Successful completion of MJTP Book 1

This course covers specific injuries and how to deal with these injuries. Respiratory emergencies and instances of shock are also covered in this class. Some OSHA standards are reviewed.

(1/15/0/0/0/0)

UTIL-1200
Basic Climbing

This course covers proper and safe climbing techniques. Students learn about the different types and uses of personal protective equipment. The different types and care and uses of ropes as well as knots and splicing are included in this class.

(2.5/7.5/0/90/0/0)

UTIL-1415
Overhead Line Construction I

Prerequisite: Successful completion of MJTP Book 1

This course introduces students to single-phase overhead primary construction and Rural Utilities Services (RUS) Standards. Topics covered include joining, stringing, and sagging of line conductors. Basic construction principles and safety awareness are emphasized.

(3/15/0/90/0/0)

UTIL-1425
Electrical Equipment Structure & Design II

Prerequisite: Successful completion of MJTP Book 1

This class introduces the structure and design of both overhead and underground electrical equipment. Topics covered include transformers, over voltage/over current protective devices, live line maintenance, and voltage regulation.

(3/45/0/0/0/0)

UTIL-1435

Electrical Equipment Structure & Design Lab

Prerequisite: Successful completion of MJTP Book 1

This class allows students hands-on practice related to the structure and design of both overhead and underground electrical equipment. Students conduct top of pole rescues and utilize materials and equipment necessary for overhead and underground line construction.

(3/0/0/135/0/0)

UTIL-1500

Applied Electrical Science for Powerline I

This course begins with a basic introduction to electricity. It covers the nature of matter, different sources of electricity, circuits, electromotive force (voltage), current and resistance, Ohm's Law, and basic transformer design and maintenance.

(2/22.5/0/22.5/0/0)

UTIL-1550

Applied Electrical Science for Powerline II

Prerequisite: Successful completion of MJTP Book 1

This course covers the basics of power, its transmission and distribution. Series, parallel, and combination circuits are covered in this class. The properties of magnetism and fundamentals of AC currents are also covered.

(3/15/0/90/0/0)

UTIL-1600

Applied Mathematics for Powerline I

This course is very specific to the powerline industry. It covers the math that is used every day in the industry. Mathematical functions using fractions, decimals, exponents, and prefixes are introduced and explored. Students are exposed to some basic algebra using percentages and vectors.

(1/15/0/0/0/0)

UTIL-1650

Applied Mathematics for Powerline II

Prerequisite: Successful completion of MJTP Book 1

This course is specific to the powerline industry. It covers the math that is used every day in the industry. Mathematical functions using ratios, proportions, power and square root and right triangles are included.

(1/15/0/0/0/0)

UTIL-2010

Staking/Mapping II

Prerequisite: Successful completion of MJTP Book 2

This course introduces the student to the different tools used in the staking and mapping process. Included are the drawings and specifications as well as staking sheets.

(1/7.5/0/22.5/0/0)

UTIL-2020

Safety II

Prerequisite: Successful completion of MJTP Book 2

This course introduces the student to some specific hazards that the linemen can encounter in the field. Included are hazards related to poisonous plants, insects, and snakes.

(1/7.5/0/22.5/0/0)

UTIL-2030

Power Use II

Prerequisite: Successful completion of MJTP Book 2

This course covers the use of the single phase motor. This includes a brief history of motors and how electromagnetic induction applies to the relationship of current flow through conductors and magnetic fields.

(1/7.5/0/22.5/0/0)

UTIL-2040

Street Lighting II

Prerequisite: Successful completion of MJTP Book 2

This course covers the different types of lamps used for street lighting. Included are light waves, the effect the eye sees from the different wave lengths, and the four sources of electric light.

(1/7.5/0/22.5/0/0)

UTIL-2350

Transformer Connections

Prerequisite: Successful completion of MJTP Book 2

This course covers eight different types of transformer connections. Students will learn how to draw different vector diagrams, identify the phases on the diagrams and give the system voltages.

(4/30/0/90/0/0)

UTIL-2415

Overhead Line Construction II

Prerequisite: Successful completion of MJTP Book 2

This course introduces students to circuit reclosers, sectionalizers, and fault currents. Additionally, topics

covered include substations and the concrete fundamentals related to these. Basic construction principles and safety awareness are emphasized.

(3/22.5/0/67.5/0/0)

UTIL-2425
Electrical Equipment Structure & Design II

Prerequisite: Successful completion of MJTP Book 2

This course introduces the various types of meters used to measure quantities of electricity. This course covers the maintenance of these meters as well. Also covered are the different types of hydraulic systems.

(4/30/0/90/0/0)

UTIL-2500
Utilities Internship

Prerequisites:

- ***30 credits of UTIL courses***
- ***GPA of 2.5 in UTIL courses***

Work experience is an important part of any educational program. This internship is intended to give students extended experience in solving real world problems while working under the supervision of an employer and instructor. Students may be compensated for the hours worked and will receive one (1) credit for each 60 hours worked up to three (3) credits. Two learning objectives are required per desired credit hour.

(1-3/0/0/0/0/60-180)

UTIL-2550
Applied Electrical Science for Powerline III

Prerequisite: Successful completion of MJTP Book 2

This course covers inductance, inductive reactance, capacitance and capacitive reactance. Students will use formulas to solve total inductance in parallel and series circuits. Includes the use of formulas to calculate total capacitance when two or more capacitors are included in a given circuit.

(3/15/0/90/0/0)

Psychology

PSYC-1810
Introduction to Psychology

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a social science requirement for AA or AS degree

This course is an introduction to the science of behavior and mental processes including the application of critical thinking to the study of learning theory, memory, personality, growth and development, biological and neurological aspects, abnormal behavior, therapies, intelligence, motivation, emotion, sensation, perception, and theoretical perspectives.

(3/45/0/0/0/0)

PSYC-2020
Drugs & Behavior

Prerequisite: PSYC-1810

This course surveys drugs that affect behavior, emphasizing drugs with abuse potential. It includes an introduction to the chemistry of the brain and how drugs influence brain chemistry and function. The behavioral, social, historical, and medical aspects of each major class of psychoactive drug will be examined.

(3/45/0/0/0/0)

PSYC-2090
Abnormal Psychology

Prerequisite: PSYC-1810

This course provides a survey of the major behavior pathologies with emphasis on their etiology and treatment. An attempt is made to understand these abnormalities in terms of genetic, neurological, behavioral, cognitive, emotional, social, and interpersonal influences and to compare these pathologies to the problems of normal human development.

(3/45/0/0/0/0)

PSYC-2100
Child Growth & Development

Prerequisite: PSYC-1810

This course is a survey of behavioral and experiential development from conception to adolescence with special attention given to the roles played by maturation, learning, motivation, emotions, and personal and social adjustment. Development is presented both as a body of knowledge and as a process of growth and change.

(3/45/0/0/0/0)

PSYC-2140
Social Psychology

Prerequisite: PSYC-1810 or SOCI-1010

This course is an introduction to current theories of and research in social psychology. This course overlaps the disciplines of psychology and sociology and includes a study of small group behaviors and dynamics.

(3/45/0/0/0/0)

PSYC-2150
Life Span: Human Growth & Development

Prerequisite: PSYC-1810

This course is an introduction to the basic concepts and issues of biological and psychological growth and development from conception through old age. Emphasis is placed on biophysical, cognitive, and psychosocial development throughout the lifetime. Applied aspects of developmental psychology are emphasized in the course.

(3/45/0/0/0/0)

PSYC-2650
Research Methods in Psychology

Prerequisite: PSYC-1810

This course is an introduction to research methods and design. It includes an overview of the scientific method, ethical issues in research, methods of data collection, research design, data analysis and interpretation, and presentation of results. Students will create, perform, and present an individual research project.

(3/45/0/0/0/0)

Real Estate

REES-1600
Real Estate Principles

This course is designed to introduce students to the field of professional real estate. It fulfills part of the requirements of Nebraska real estate law for a salesman's license and part of the credits for preparation to take the broker's examination. The course includes study of the following real estate topics: character of land, real estate markets, ownership, interest, legal instruments, contracts, closings and transfers, financing, appraising, brokerage, management, development and investments, and Nebraska real estate law.

(3/45/0/0/0/0)

REES-2800
Real Estate Law

This course is intended for students of both the professional and nonprofessional group who desire instruction in the principles of real estate law governing estates in land, acquisition of title, mortgages, easements, liens, leasing, owner's liability, wills and administration of estates.

(3/45/0/0/0/0)

Sociology

SOCI-1010
Introduction to Sociology

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a social science requirement for AA or AS degree

This course is an introduction to the basic principles of sociology, including the study of sociological research, theoretical perspectives, culture, socialization, social structure, social institutions, deviance, social inequalities, stratification, demography, and population.

(3/45/0/0/0/0)

SOCI-2050
Special Topics in Sociology

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

This course provides instruction in special content areas outside of the courses being offered by the Division of Social Science and Human Performance.

(3/45/0/0/0/0)

SOCI-2150
Issues of Unity & Diversity

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a social science requirement for AA or AS degree

This course is designed to increase students' awareness of and sensitivity to the commonalities and differences among people and acquire knowledge of minority group issues and challenges. The course will prepare students to more critically, actively, and effectively participate in an increasingly diverse and global society.

(3/45/0/0/0/0)

SOCI-2250
Marriage & Family

Prerequisite: ENGL-0065, ENGL-0070, or ACCUPLACER® (or other appropriate placement test)

Satisfies a social science requirement for AA or AS degree

This course develops an understanding of the social role of marriage and family living. Topics covered include courtship and preparation for marriage, conflict situations and adjustments between spouses, parent-child relationships, the family in the community, and the disintegration of the family unit.

(3/45/0/0/0/0)

Spanish

SPAN-1010
Elementary Spanish I

Satisfies a humanities requirement for AA or AS degree

This is the first introductory course where students begin to learn the fundamentals of Spanish. It stresses comprehension, pronunciation, speaking, listening, reading, writing, and vocabulary. The course includes nouns, adjectives, and present tense as well as a study of Spanish-speaking cultures. This course also allows language learners to experience the cultural diversity of Spanish-speaking countries. Technology is incorporated in this class to enhance language skills. The class emphasizes an interactive, proficiency-oriented approach to learning language and culture

(5/75/0/0/0/0)

SPAN-1020
Elementary Spanish II

Prerequisite: SPAN-1010

Satisfies a humanities requirement for AA or AS degree

In this course, students continue to focus on the skills begun in SPAN-1010. The course covers past tenses and double object pronouns among other grammatical structures. The course allows 21st century language learners to further develop proficiency in Spanish while expanding community connections in and out of the classroom through local and global Spanish-speaking communities. Technology is incorporated to enhance language skills. The class emphasizes an interactive, proficiency-oriented approach to learning language and culture.

(5/75/0/0/0/0)

SPAN-1980
Conversational Spanish

This introductory, one-semester course offers the student both a basic understanding of Spanish grammar and sentence structure and an introduction to speaking the language in multiple contexts, from talking with friends to getting around town. The course, which is intended for the person without any previous experience with the Spanish language, is designed to enable the student to acquire sufficient vocabulary and knowledge of grammar to begin to express himself/herself verbally. The course provides an appreciation of basic Spanish grammar and sentence structure through various written exercises, but the emphasis is on conversation.

(3/45/0/0/0/0)

SPAN-2010
Intermediate Spanish I

Prerequisite: SPAN-1020 or by placement exam

Satisfies a humanities requirement for AA or AS degree

This course is the third level in the language sequence that builds students' language proficiency by refining receptive and productive skills while encouraging students to compare, contrast, and develop an appreciation of the cultural diversity of Spanish speaking communities. This course builds on previously attained grammar and stresses vocabulary building. It presents the perfect, subjunctive, future, and conditional tenses as well as commands. It is taught primarily in Spanish. Technology is incorporated in this class to enhance language skills.

(3/45/0/0/0/0)

SPAN-2020
Intermediate Spanish II

Prerequisite: SPAN-2010 or by placement exam

Satisfies a humanities requirement for AA or AS degree

This is the last course of the four level language sequence. Ample opportunities are provided to develop vocabulary, strengthen the four linguistic skills, and increase awareness and appreciation of contemporary Spanish-speaking local and global communities. Technology is incorporated in this class to enhance language skills. This course continues the grammar review of SPAN-2010 and introduces literary readings. Classes are conducted in Spanish.

(3/45/0/0/0/0)

Speech

SPCH-1110
Public Speaking

Prerequisite: ENGL-0050, ENGL-0065, ENGL-1000, or ACCUPLACER® (or other appropriate placement test)

This course will assist the student in mastering the sk9ills required of speaking in today's workplace. This course will focus on the organization, preparation, research, and evidence needed for a presentation tailored to fit the audience. This course will enhance the student's listening skills, which will assist them in everyday situations.

(3/45/0/0/0/0)

SPCH-1200

Human Communications

Prerequisite: ENGL-0050, ENGL-0065, or ACCUPLACER® (or other appropriate placement test)

This course is basic to a study of speech communication. The fundamentals of communication theory are applied to intrapersonal communication, interpersonal communication, small groups, and public speaking. The student gains practical experience in public speaking.

(3/45/0/0/0/0)

SPCH-1210

Speech and Debate

Students participate in intercollegiate speech and debate.

(1/15/0/0/0/0)

Surgical Technology

SURT-1005

Principles & Practices of Central Processing

This course provides classroom and lab instruction in basic principles, practices, and operations of a central processing department in a healthcare facility. Students will learn about the role of the central service technician and the central processing/service department in healthcare. Topics covered will include: basic microbiology, all-hazards safety, infection control practices, current regulations and standards, identification of surgical instrumentation, care of surgical instrumentation/equipment/flexible endoscopes in all phases of the sterile processing cycle, best practices, techniques, technologies, quality assurance and control monitoring, and inventory control processes utilized in the central processing department. Individuals who can demonstrate equitable on-the-job training or experiences in healthcare may be eligible for non-traditional or experiential learning credit.

(3/30/45/0/0/0)

SURT-1030

Surgical Procedures I

Prerequisite: Acceptance into the Surgical Technology program

Co-requisite: SURT-1100 and SURT-1100L

This course provides instruction in specific surgical specialties including general, gynecologic and obstetric, and otolaryngology. Students gain knowledge relative to anatomy, physiology, pathophysiology, diagnostic tests, equipment, instruments, supplies, surgical procedures and interventions, and surgical patient care concepts in the pre, intra, and postoperative phases of care relative to the practice of surgical technology and in accordance with the core curriculum for surgical technology 6th ed. per requirements for programmatic accreditation.

(3/45/0/0/0/0)

SURT-1070

Clinical Practice I

Prerequisite: Acceptance into the Surgical Technology Program, SURT-1030, and SURT-1100, and SURT-1100L

Co-requisite: SURT-1005, SURT-1125, SURT-2050, and SURT-2050L

This course provides the student with an introduction to the perioperative environment and the role of the surgical technologist within the clinical setting relative to the practice of surgical technology and in accordance with the Core Curriculum for Surgical Technology 6th Edition. as required for programmatic accreditation. The student will apply knowledge, skills, and abilities learned in all previous surgical technology core and general pre-requisite coursework. The student will participate in supervised clinical rotations, with a focus on applying the fundamental concepts and principles utilized in the first and second scrub and assistant circulator roles. Students will also participate in sterile processing practices, which includes the decontamination, inspection/assembly, and sterilization of instrumentation and equipment utilized in the healthcare setting.

(3/0/0/0/135/0)

SURT-1100

Introduction to Surgical Technology

Prerequisite: Acceptance into the Surgical Technology Program

Co-requisite: SURT-1030 and SURT-1100L

This course provides the student with an introduction to the profession of surgical technology and its global role in healthcare in a didactic setting. Focus is placed upon a wide-range of profession-related subject matter, including principles of asepsis and surgical conscience; patient population considerations; medical, legal, ethical, and professional issues; risk management; biomedical sciences; infection control and disease prevention; physical environment and safety; healthcare organization; and surgical case management.

(2/30/0/0/0/0)

SURT-1100L

Principles & Practices of Surgical Technology I

Prerequisite: Acceptance into the Surgical Technology Program

Co-requisite: SURT-1030 and SURT-1100

This course is an application of the introductory principles and practices of surgical technology learned in SURT-1100, through all phases of perioperative care and within a simulated setting. Students have the opportunity to practice and demonstrate cognitive, psychomotor, and affective competencies relevant to the practice of the surgical technologist in both the scrub and circulator roles. Students will develop and employ the principles of aseptic technique, surgical conscience, teamwork and communication, care of the perioperative patient, the role of the scrub and circulator, and principles of personal and patient safety as they apply to the perioperative environment. Students will gain an understanding of the application of biomedical devices; surgical instrumentation, equipment, and supplies; wound closure and management devices; and basic principles of patient transport, positioning, and surgical preparation. Students will demonstrate via skills assessments competency in best practices of fundamental skills and surgical case management in both the scrub and circulator role. Also in this course the student will apply the knowledge learned in SURT-1100 and SURT-1030 in a simulated setting within the lab. Students have the opportunity to practice and demonstrate cognitive, psychomotor, and affective competencies relevant to the role of the surgical technologist in both the scrub and circulator roles in accordance with the Core Curriculum for Surgical Technology 6th ed. as required for programmatic accreditation. Emphasis is placed on the principles of aseptic technique and the application of safe patient care practices. Surgical specialties include diagnostic procedures and general, gynecologic and obstetric, and otorhinolaryngolic surgeries.

(2/0/60/0/0/0)

SURT-1125

Pharmacology for the Surgical Technologist

Prerequisite: Acceptance into the Surgical Technology Program, SURT-1030, SURT-1100, and SURT-1100L

Co-requisite: SURT-1005, SURT-1070, SURT-2050, and SURT-2050L

This course introduces students to the concepts and practices of their role in handling medications and solutions in the surgical setting. Topics covered include medication safety, the nature of drugs, administration routes, drug actions, side effects, and concepts of anesthesia care. Students will also review potential medication and anesthesia complications and emergent situations relative to the practice of surgical technology and in accordance with the Core Curriculum for Surgical Technology 6th ed. as required for programmatic accreditation.

(2/30/0/0/0/0)

SURT-2050

Surgical Procedures II

Prerequisite: Acceptance into the Surgical Technology Program, SURT-1030, SURT-1100, and SURT-1100L

Co-requisite: SURT-1005, SURT-2050L, SURT-2070, and SURT-1125

This course is an orientation to specific surgical specialties including genitourinary, oral maxillofacial, plastic, orthopedic, ophthalmic, thoracic, vascular, cardiac, neuro, pediatric, and trauma surgeries. The course will also include all-hazards preparation as it relates to competencies specific to healthcare and public infrastructure and the role of the surgical technologist in the event of a disaster. Students gain knowledge relative to anatomy, physiology, pathophysiology, diagnostic tests, equipment, instruments, supplies, surgical procedures and interventions, and surgical patient care concepts in the pre, intra, and postoperative phases of care relative to the practice of Surgical Technology and in accordance with the Core Curriculum for Surgical Technology 6th Edition. per requirements for programmatic accreditation.

(3/45/0/0/0/0)

SURT-2050L

Principles & Practices of Surgical Technology II

Prerequisite: Acceptance into the Surgical Technology Program, SURT-1030, SURT-1100, and SURT-1100L

Co-requisite: SURT-1005, SURT-1070, SURT-1125, and SURT-2050

This course allows the student to apply the knowledge learned in SURT-2035 in a lab setting. Students have the opportunity to practice and demonstrate cognitive, psychomotor, and affective competencies relevant to the role of the surgical technologist in both the scrub and circulator roles in accordance with the Core Curriculum for Surgical Technology 6th ed. as required for programmatic accreditation. Emphasis is placed on the principles of aseptic technique and the application of safe patient care practices. Surgical specialties include genitourinary, oral/maxillofacial, plastic, orthopedic, ophthalmic, thoracic, vascular, cardiac, neuro, pediatric, and trauma surgeries.

(3/0/90/0/0/0)

SURT-2080
Clinical Practice II

Prerequisite: Acceptance into the Surgical Technology Program, SURT-1005, SURT-1030, SURT-1070, SURT-1100, SURT-1100L SURT-1125, SURT-2050, and SURT-2050L

Co-requisite: SURT-2210

Clinical Practice II is a continuation of Clinical Practice I and a culmination of all previous surgical technology course work. Students will continue to build upon their knowledge, skills, competencies, and clinical confidence gained in previous semesters in accordance with the Core Curriculum for Surgical Technology 6th Edition, as required for programmatic accreditation. Students continue their supervised clinical rotations, focusing on continued application of fundamental concepts and principles necessary to the surgical technologist, working independently under the supervision of a clinical preceptor. As per the Core Curriculum for Surgical Technology 6th ed., students will continue to collect specific surgical specialty first scrub experiences to complete all first scrub role surgical rotation requirements, develop entry level skillsets, and prepare for entry into the workforce.

(12/0/0/0/0/450/0)

SURT-2210
Professional Development for the Surgical Technologist

Prerequisite: Acceptance into the Surgical Technology Program, SURT-1005, SURT-1030, SURT-1070, SURT-1100, SURT-1100L, SURT-1125, SURT-2050, and SURT-2050L

Co-requisite: SURT-2080

This course prepares students to sit for the national certifying exam for surgical technology. Requirements for successful completion and graduation from the surgical technology program at WNCC are the student's participation in the NBSTSA Comprehensive (Secure) CST practice exam and participation in the National Certification Exam (CST Examination). Students will review all pertinent subject matter from their preceding course work as it relates to the content of the certifying exam. Students will also hone exam preparation and test taking strategies and learn about the development of the exam, its format, and its importance relative to credentialing and professional development.

Students will also learn effective employment/employability skills related to social media management, job search, job application, resume development, interview skills, and long term professional development strategies relative to surgical technology.

(2/30/0/0/0/0)

Theatre Arts

THEA-1010
Introduction to Theatre

Satisfies a humanities requirement for AA or AS degree

This course is an introduction to the forms and functions of dramatic arts within a historical perspective. Includes an introduction to basic theatre skills as well as an introduction to a range of dramatic literature.

(3/45/0/0/0/0)

THEA-1200
Movement

An investigation into Devised Theatre as intended in the pedagogies of Jacques Lecoq and the International School of Mime and Theatre. This class will make explorations into stage violence.

(3/45/0/0/0/0)

THEA-1300
Voice and Articulation

This is a laboratory course designed to develop physical and vocal awareness of skills needed for stage performance. The course will focus on vocal production, articulation, projection, and expressiveness with the aim of developing a standard stage speech. Class sessions will include exercises in relaxation, breath control, articulation, and vocal/physical projection.

(3/45/0/0/0/0)

THEA-1400
Ballet I

Introduction to basic principles, terminology, and techniques of classical ballet, and developing an understanding of classical ballet terminology.

(1/30/0/0/0/0)

THEA-1410
Jazz I

Introduction to basic principles, terminology, and techniques of jazz dance.

(1/30/0/0/0/0)

THEA-1420
Tap Dance I

Introduction to basic principles, terminology, and techniques of tap dance.

(1/30/0/0/0/0)

THEA-1430
Tap Dance II

Prerequisite: THEA-1420

A continuation of THEA-1420, this course provides intermediate instruction of principles, terminology, and techniques of tap dance.

(1/30/0/0/0/0)

THEA-1500
History of Film

Satisfies a humanities requirement for AA or AS degree

Technological and aesthetic evolution of film art is reviewed from its origins to the present. International and American film theories and their cultural and artistic implications are surveyed during the screening sessions, followed by in-class analysis.

(3/45/0/0/0/0)

THEA-1760
All College Play

This is a participation course in play production. The course includes acting, stage construction, lighting, costuming, makeup, and theatre management. The course is open to all students at WNCC as well as residents of the Panhandle area. This course may be repeated for a total of four semesters for credit.

(1/0/30/0/0/0)

THEA-1830
Stage Makeup

This course will present theory and application of two- and three-dimensional makeup for stage. The course is structured as lecture/demonstration and lab employing the principles of stage makeup, the variety of materials available, and the application of these materials. The course is designed to help the student (both actor and makeup artist) build a working knowledge of broad-based application procedures, materials, and techniques, and the principles of characterization allowing for the development, planning, and execution of character makeup designs.

(3/45/0/0/0/0)

THEA-1860
Technical Production I

This course places primary emphasis on a practical application of the techniques used in scenery construction. Students will be required to work on one all-College play during the semester of their enrollment.

(3/45/0/0/0/0)

THEA-2010
Survey to Theatrical Design

This is an introductory course in theatrical design. Students are introduced to fundamental principles and applications for designing scenery, lighting, and costumes for the theatre. Topics include the theoretical and artistic aims of the design process, style, organization, structure, and unity. Students will also gain experience in drawing, drafting, rendering, and model building. During the semester, students will undertake design assignments for critique by classmates and the instructor.

(3/45/0/0/0/0)

THEA-2200
Script in Production

This course is an introduction to the practice of reading and understanding plays for production. Focus will be on the script as a blueprint for directors, designers, actors and other collaborators. This class is designed to equip students with the textual expertise and the vocabulary needed for artistic collaboration as well as academic conversation.

(3/45/0/0/0/0)

THEA-2500
Theater Arts Internship

Prerequisite: Permission of instructor

Work experience is an important part of any educational program. This internship is intended to give students extended experience in solving real world problems while working under the supervision of an employer and instructor in Theatre Arts. Students may be compensated for the hours worked and will receive one (1) credit for each 60 hours worked up to three (3) credits.

(1-3/0/0/0/0/60-180)

THEA-2600
Technical Production II

This course is a continuation of THEA-1860.

(3/45/0/0/0/0)

THEA-2660

Acting I

This course is an introduction to the essentials of the actor's craft: stage movement, concentration, relaxation, sensory awareness, voice, improvisation, basic script analysis, and rehearsal technique. Participation in one all-College play is encouraged.

(3/45/0/0/0/0)

THEA-2750

Acting II

Prerequisite: THEA-2660

This course is designed to continue and expand on techniques developed in THEA-2660. Students will develop physically, vocally, emotionally, and experientially to be able to effectively handle heightened language, text, and ideas. Work will focus on concentration, relaxation, sensory awareness, script analysis, movement, and improvisation. Work on character analysis will be done through in-class scenes. Participation in one all-College play is encouraged.

(3/45/0/0/0/0)

Transportation

TRAN-1100

Commercial Driver's License (CDL) – Class B

The Commercial Driver's License (CDL) – Class B is required for anyone driving a vehicle that weighs more than 26,000 pounds Gross Vehicle Weight Rating (GVWR), carries 16 or more passengers, or transports placarded amounts of hazardous materials.

(2/20/0/60/0/0)

Welding Technology

WELD-1015

Introduction to Welding

This is an introductory course that explores common welding processes and theory. Metal identification and fundamental metallurgy will be discussed. Emphasis is on safety, equipment setup, process basics, and hands-on skill application. Process coverage includes; oxyacetylene welding - cutting and brazing, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding and plasma cutting. The student will develop the skills necessary to produce good quality cuts and welds on light-guage mild steel joints using a variety of methods and techniques.

(3/30/0/45/0/0)

WELD-1050

Basic Gas Tungsten Arc Welding

This course provides the student with a thorough understanding of the gas tungsten arc welding process and welding safety. Diligent practice of safety and welding skills enables the student to produce quality fillet and groove welds in all positions on carbon steel sheet and tubing using small diameter tungsten alloy electrodes.

(3/30/0/45/0/0)

WELD-1070

Basic Welding – Auto Body

This class is a basic welding course in oxy-acetylene cutting, welding, and brazing, as well as GMAW, GTAW, and plasma cutting. Welding, cutting, and brazing are done in all positions. Light-guage sheet metal is used. Lab work simulates welding and cutting practices used in the auto body trade. Basic safety and theory are also covered.

(3/30/0/45/0/0)

WELD-1090

Oxy-Acetylene Welding

This course provides an understanding of oxy-acetylene welding and cutting, as well as safety practices. It provides training to develop the manual skill necessary to produce quality 11-guage fillet welds and open root 3/16-inch V-bevel welds in all positions. Skill is developed in the areas of flame cutting mild steel plate.

(3/30/0/45/0/0)

WELD-1110

Advanced Arc Welding

Prerequisite: WELD-1100

This course provides training in the development of skills necessary to produce quality multi-pass groove welds with backing on 1-inch plate in the horizontal, vertical, and overhead positions, and to produce quality open root single V-groove welds on 3/8-inch mild steel plate in horizontal, vertical, and overhead positions. Welding related information is also provided on hard surfacing and repair of cast iron and metal identification. In addition, welding related information is included about procedure and welder qualification on destructive and nondestructive testing methods.

(6/60/0/90/0/0)

WELD-1120
Gas Metal Arc Welding

This course provides the student with a thorough technical understanding of welding safety, gas metal arc welding (GMAW), equipment adjustments, metal transfer, and shielding gases. It also provides training to develop the skill necessary to make quality gas metal arc welds in all positions on mild steel from 3/16-inch sheet to 3/8-inch plate, single and multiple pass, using short circuit transfer. This course also illustrates problems associated with welding situations and provides corrective information.

(3/30/0/45/0/0)

WELD-1125
Flux Cored Arc Welding

This course provides a thorough technical understanding of welding safety, flux cored arc welding (FCAW), equipment adjustments, metal transfer, and shielding gases. It also provides training to develop the skill necessary to make quality flux cored welds in all positions on mild steel from 1/4-inch sheet to 3/8 inch plate, single and multiple pass, using short circuit transfer. This course also illustrates problems associated with welding situations and provides corrective information.

(3/30/0/45/0/0)

WELD-1170
Arc Welding & Shop Fabrication

Prerequisite: WELD-1015 or Instructor Consent

This course is designed to provide training in building a small/medium-sized metal fabrication project. Any project is subject to prior instructor approval. Blueprint reading skills and welding skills are developed in the course of the class. This course will illustrate problems associated with welding situations and provide corrective information.

(2-3/15/0/45-90/0/0)

WELD-1200
Basic Shielded Metal Arc Welding

This course provides a thorough technical understanding of arc welding, welding safety, arc welding power sources, and electrode classifications and selection. It also provides training to develop the skills necessary to make quality shielded metal arc welds in all positions on mild steel from 3/16 inch to 1/2 inch plate, single and multiple pass, using mild steel, low hydrogen, and iron powder electrodes, with DC welding current. Welder qualification testing is on V-Groove, limited thickness with backing, in all positions.

(3/30/0/45/0/0)

WELD-1250
Shielded Metal Arc Welding

This course provides the student with a thorough technical understanding of arc welding, welding safety, arc welding power sources, electrode classifications and selection. It also provides training to develop the skills necessary to make quality shielded metal arc welds in all positions on mild steel from 3/16 inch to 1/2 inch plate, single and multiple pass, using mild steel, low hydrogen, and iron powder electrodes, with DC welding current. Welder qualification testing is on V-groove, limited thickness without backing, in all positions utilizing E6010 and E7018 electrodes.

(3/30/0/45/0/0)

WELD-1300
Blueprint Reading for Welders & Fitters

A general course in blueprint reading, welding symbols, and their application. This course covers the visualization of object shapes, reading the blueprint for finding size and location dimensions, symbols, mathematics notes, and related welding and assembly information shown on the print. This course further develops the student's understanding of how to read welding blueprints and the range of thinking required to assemble simple components and complex assemblies from welding prints.

(3/45/0/0/0/0)

WELD-2025
Structural Welding

Prerequisite: WELD-1125 and WELD-1200 or instructor approval

This course provides training to develop the welding skills necessary to produce high quality groove welds with backing on 1-inch thick mild steel plates in all positions using the shielded metal arc welding and flux cored arc welding processes. Instruction and weld testing will be based on the American Welding Society Structural Welding Code D1.1

(3/30/0/45/0/0)

WELD-2110
Downhill Pipe Welding – SMAW

Prerequisite: WELD-1100

This course provides students with a thorough understanding of shielded metal arc welding (SMAW) fundamentals and preparation for welding carbon steel pipe with an emphasis on downhill travel utilizing E6010, E7010, and E8010 electrodes. Training and practice are utilized to develop the manual dexterity skills necessary to

produce quality groove welds on carbon steel pipe in the 2G, 5G, and 6G positions according to code standards.

(3/30/0/45/0/0)

WELD-2115
Uphill Pipe Welding – SMAW

Prerequisite: WELD-1100

This course provides the student with a thorough understanding of shielded metal arc welding (SMAW) fundamentals and preparation for welding carbon steel pipe with emphasis on uphill travel utilizing E6010 and E7018 electrodes. Training and practice is utilized to develop the manual dexterity skills necessary to produce quality groove welds on carbon steel pipe in the 2G, 5G, and 6G positions according to code standards.

(3/30/0/45/0/0)

WELD-2150
Advanced Gas Tungsten Arc Welding

Prerequisite: WELD-1100

This course provides the student with a thorough understanding of the gas tungsten arc welding process and welding safety. Diligent practice of safety and welding skills enables the student to produce quality fillet and groove welds in all positions on stainless steel & aluminum sheet and tubing using small diameter tungsten alloy electrodes.

(3/30/0/45/0/0)

WELD-2500
Weld Internship

Work experience is an important part of any educational program. This internship is intended to give students extended experience in solving real world problems while working under the supervision of an employer and instructor. All work is to be performed in accordance with industry standards and guidelines. Students may be compensated for the hours worked and will receive one (1) credit for each 60 hours worked up to three (3) credits.

(1-3/0/0/0/0/60-180)

Faculty

Royce J. Ammon, Scottsbluff
Social Science Instructor
Ph.D., University of Nebraska - Lincoln
M.A., University of Nebraska - Lincoln
B.A., University of Nebraska - Lincoln

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A.A.S., Southeast Community College
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B.A., Toccoa Falls College
Certificate, Western Nebraska Community College

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B.S., Black Hills State
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B.S., Washington University - St. Louis
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A.A., Nebraska Western College

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