

- 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.

Paramedic Program

Gainful Employment (GE) – For more information about WNCC’s graduation rates, the median debt of students who have completed this program, and other important information, please visit wncc.edu/equity.

The curriculums for a new certificate in paramedicine is in development. Please contact the Program Director for Emergency Medical Services at 308.635.6060 for specific information about the program.

(Pre) Engineering

AS.1401 (64 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.

Objectives

- Permit the student to explore various courses of mathematics and sciences that may lead to a major in a specialized emphasis.

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.
- Substitutions in the science/math courses listed can be made depending on the area of interest. Please see a faculty advisor and/or the chair of the Division of Math and Science for possible substitutions.
- 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-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.

Core Requirements (28 credits)

- 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.

| Class | | Credits |
|-----------|--------------------------------|---------|
| ENGR-1020 | Programming & Problem Solving | 3 |
| MATH-1600 | Analytic Geometry & Calculus I | 5 |
| MATH-2150 | Calculus II | 5 |

| | | |
|-----------|---|---|
| MATH-2160 | Calculus III | 5 |
| PHYS-1300 | Physics I (and lab & recitation) or | 5 |
| PHYS-2400 | Physics I w/ Calculus (and lab & recitation) | |
| PHYS-1350 | Physics II (and lab & recitation) or | 5 |
| PHYS-2450 | Physics II w/ Calculus (and lab & recitation) | |

Recommended technical electives or courses required for transfer (14 credits selected from below):

| Class | | Credits |
|-----------|--|---------|
| ENGR-1010 | Introduction to Engineering Design | 3 |
| ENGR-1070 | Graphics for Engineers | 3 |
| ENGR-2010 | Introduction to Circuits and Electronics | 3 |
| ENGR-2020 | Statics | 3 |
| MATH-2210 | Applied Differential Equations | 3 |

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 | 5 |
| PRDV-1010 | Achieving College Success | 3 |
| | Technical elective (1) | 3 |
| | Total Credits | 17 |

| 2nd Semester | | Credits |
|--------------|---------------------------------|-----------|
| ENGL-1020 | English Composition II | 3 |
| ENGR-1020 | Programming and Problem Solving | 3 |
| MATH-2150 | Calculus II | 5 |
| | Technical elective (2) | 3 |
| | Humanities GE elective | 3 |
| | Total Credits | 17 |

| 3rd Semester | | Credits |
|--------------|--|-----------|
| MATH-2200 | Calculus III | 5 |
| PHYS-2400 | Physics I with Calculus (and lab & recitation) | 5 |
| | Technical elective (3) | 3 |
| | Oral Communication GE elective | 3 |
| | Total Credits | 16 |

| 4th Semester | | Credits |
|--------------|--------------------------|---------|
| PHYS-2450 | Physics II with Calculus | 5 |
| | Technical elective (4) | 3 |

| | |
|----------------------------|-----------|
| Technical elective (5) | 3 |
| Social Science GE elective | 3 |
| Total Credits | 14 |
| Total AS Credits | 64 |

(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).

Notes

- 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 accepts 60 credit credits toward the eventual bachelor of applied science degree. MATH-1150 (College Algebra) transfers as three (3) credits rather than four (4). MATH-1210 (Trigonometry) transfers as two (2) credits rather than three (3).
- 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