	Political Science & Social Organization elective	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	3
	Ethics elective	3
	Family & Human Behavior elective	3
	Total Credits	**15**
	Total AS Credits	**62**

(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.

Objectives

- Provide students with the necessary information and credit to transfer directly to a school providing upper-division pre-pharmacy studies at a four-year college or university and ultimately acceptance into the graduate level programs in a chosen field.
- Provide students with coursework basic to a variety of curricula. Students will be able to change easily their educational goals to other areas, especially in the life sciences, with little or no lost time or earned credits.
- Provide a basic knowledge of the physical sciences so that the student can develop an understanding of the physical and chemical properties of the drugs encountered in the pharmaceutical profession.
- Provide basic knowledge of the biological sciences so that the student has an understanding of the effects of drugs on the human body.

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.

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**
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 required for transfer (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

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.

Objectives

- Provide an opportunity for students to become acquainted with the basic principles of physics, chemistry, and biology.
- Provide an opportunity for students to learn the structure and function of the human body.
- Instill in students a greater appreciation for the interactions of physical, chemical, and biological laws as they apply to the human body.

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-biomedical research.
- 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 (23 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
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 (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

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (and lab)	4
CHEM-1090	General Chemistry I (and lab)	4