Core Requirements (25 credits)

- A minimum of 15-16 credits of combined science and math credits are required for the AS degree. This coursework 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-2170	Applied Statistics	3
MATH-2200	Calculus III	5
	Science elective	4

Technical Electives

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
ENGR-2010	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

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

AAS.5110 (79 Credits)
Associate of Applied Science
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.

Objectives

- 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.

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.

Recommended Plan of Study

1st Semester (fall - Prerequisite Courses)		Credits
BIOS-1160	Intro to Human Anatomy & Physiology (with lab)	4
	or	
LPNR-1110	Body Structure and Function	
ENGL-1010	English Composition I	3
HLTH-1060	Medical Terminology	2
MATH-0160	Introductory Algebra (or higher)	4
MEDT-1005	Clinical Laboratory Operations	3
	Total Credits	**16**

2nd Semester (spring - Prerequisite Courses)		Credits
CHEM-1050	Introduction to Chemistry (or higher) (with lab)	4
MEDT-1010	Fundamentals of Phlebotomy*	4
PSYC-1810	Introduction to Psychology	3
	Oral Communication GE elective	3
	Total Credits	**14**

3rd Semester (summer - MLT Core Courses)		Credits
MEDT-2100	Clinical Microbiology I	3
MEDT-2110	Urinalysis & Body Fluids	2
MEDT-2120	Clinical Immunology	3
	Total Credits	**8**

4th Semester (fall - MLT Core Courses)		Credits
MEDT-2130	Clinical Chemistry	5
MEDT-2140	Clinical Hematology & Hemostasis	4
MEDT-2150	Clinical Immunohematology	4
MEDT-2160	Clinical Microbiology II	5
	Total Credits	**18**

5th Semester (spring- MLT Core Courses)		Credits
MEDT-2220	Clinical Practicum: Microbiology	4
MEDT-2230	Clinical Practicum: Chemistry	4
MEDT-2240	Clinical Practicum: Hematology	4
MEDT-2250	Clinical Practicum: Immunohematology	4
	Total Credits	**16**

6th Semester (summer - MLT Core Courses)		Credits
MEDT-2210	Clinical Practicum: Urinalysis	2
MEDT-2220	Clinical Practicum: Immunology	2
MEDT-2300	MLT Certification Examination Preparation Review	3
	Total Credits	**7**
	Total AAS Credits	**79**

*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.

(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.

Objectives

- Provide students with the necessary information and credit to transfer directly to a school of medical technology that has a two-year pre-professional requirement.