

**MACHINE SHOP TECHNOLOGY**  
**Two-Year Certificate Program**  
**Associate of Applied Science Degree**  
(Continued)

**3rd Semester**

WELD 111	Basic Welding (Offered in Fall Only)	2
MASH 206	Advanced Lathe Operations	4
MASH 207	Specialized Machining Operations	3
MASH 208	Advanced Milling Operations	4
MASH 209	Machine Shop Maintenance	3
	Total	16

**4th Semester**

MASH 212	Advanced Machining Techniques	4
MASH 213	Basic CNC Machining	3
MASH 216	Advanced Single Point Threading	4
MASH 217	CAD- CAM Machining	3
	Total	14

**Total Credits 67**

**MEDICAL LABORATORY TECHNICIAN**  
**Associate of Applied Science**

San Juan College offers a Medical Laboratory Technician Program leading to an Associate of Applied Science degree. The curriculum prepares learners for an entry level position as a medical laboratory technician. The medical laboratory technician is a key member of the health care team performing clinical laboratory procedures in a variety of areas including hematology, chemistry, microbiology, immunology and immunohematology. The information from these analyses is used in the maintenance of health and the diagnosis and monitoring of disease and treatment. Program graduates may continue their education toward a baccalaureate degree in medical technology or clinical laboratory science.

Students who successfully complete the program will be eligible to take the national certification examination.

The Medical Laboratory Technician Program has applied for accreditation to:

National Accrediting Agency for Clinical Laboratory Science (NAACLS)

8410 W. Bryn Mawr Ave. Suite 670

Chicago, IL 60631

Phone: 773-714-8880

Website: [www.naacls.org](http://www.naacls.org)

**Admission Requirements**

Admission to the Medical Laboratory Technician program is limited and selective. To be considered for admission to the program the following requirements must be met:

1. Have a high school diploma or equivalent.
2. Have a college minimum cumulative GPA of 2.75 or better.
3. Complete the prerequisite courses of MATH 115, CHEM 110, CHEM 210, BIOL 252, BIOL 253, BIOL 224 with a minimum grade of C, and complete MLTS 120 and MLTS 160 with a minimum grade of B.
4. Students are encouraged to finish as many of the General Education Requirements as possible before entering the major.
5. Submit a completed application by the third Friday in October.

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<b>1st Semester</b>			
CHEM	110	Introductory Chemistry *	4
ENGL	111	Freshman Composition	3
MATH	115	Intermediate Algebra and Applications or higher**	4
MLTS	120	Intro To Medical Laboratory Science	3
		Total	14
<b>2nd Semester</b>			
CHEM	210	Organic Chemistry Survey	4
SPCH	111	Interpersonal Communication	3
BIOL	252	Human Anatomy and Physiology I	4
MLTS	160	Theory of Phlebotomy***	2
		Total	13
<b>3rd Semester</b>			
ENGL	211	Advanced Composition	3
BIOL	224	Microbiology	4
PSYC	120	Introduction to Psychology	3
BIOL	253	Human Anatomy and Physiology II	4
		Total	14
<b>4th Semester</b>			
MLTS	210	Clinical Hematology	4
MLTS	211	Clinical Hemostasis	1
MLTS	212	Urinalysis and Body Fluids	1
MLTS	213	Clinical Chemistry Diagnostics	4
MLTS	214	Immunoematology	2
MLTS	215	Immunology Concepts	1
MLTS	216	Clinical Microbiology	4
		Total	17
<b>5th Semester</b>			
MLTS	217	Molecular Diagnostics and Special Procedures	2
MLTS	220	Clinical Microscopy and Coagulation Practicum	4
MLTS	221	Clinical Chemistry Practicum	3
MLTS	222	Clinical Microbiology Practicum	3
MLTS	223	Immunology and Immunoematology Practicum	2
MLTS	230	Career Success Seminar	2
		Total	16

**Total credits 74**

\*Students interested in articulation with UNM should take CHEM 111 and 112 sequence

\*\*Students interested in articulation with UNM should take MATH 185 College Algebra

\*\*\*MLTS 161 Phlebotomy Practice 2 Credits Needed to complete Phlebotomy Certificate  
(This class is not required for MLT majors)

+ BIO 121 prerequisite for BIOL 224

**General Education Requirements**

Any student seeking an Associate of Applied Science degree must complete a minimum of 15 credit hours of general education.

English (ENGL 111 or ENGL 118) and one other determined by department.	6
Mathematics (must be numbered 113 or higher)	3
Speech Communication	3
Psychology 120 program requirement	3
	Total 15

Students selected for the program must:

1. Apply to and be accepted by San Juan College.
2. Complete all admission and remedial requirements of San Juan College.
3. Submit proof of a physical examination, provide documentation of current immunizations and maintain current immunizations throughout the program.
5. Agree to a criminal background check and drug screen as required by the program affiliates.
4. Be responsible for all travel expenses to and from program affiliates.
5. Complete each course in the curriculum with a "C" or better to remain in and graduate from the program.