

**Medical Laboratory Technician**

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

REQUIRED CREDITS: 66

**LIMITED ENTRY**  
DEGREE CODE: MLTECH-AAS

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

**DESCRIPTION**

The Medical Laboratory Technician (MLT) is an important member of the health care team in hospitals, clinics, medical research, and teaching centers, and is an indispensable participant with physicians in providing critical diagnostic information. The MLT functions as a dependable, ambitious, and highly motivated professional capable of handling high stress situations with ease and confidence.

The MLT performs diagnostic laboratory procedures using state-of-the-art instrumentation to aid in the detection, diagnosis, and treatment of disease; monitors the standards of accuracy and precision in the performance of tests; performs routine preventive maintenance and troubleshoots instrument problems; and participates in research and evaluation of new procedures.

The Medical Laboratory Technology program is a two year program. It combines academic and laboratory courses on campus with practical experience at clinical affiliates. This program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119, (847) 939-3597. Students successfully completing the program are eligible to take the National Certification examination.

Upon successful completion of the above, the student may apply to the State of Nevada for the required license as a Medical Technician.

**STUDENT LEARNING OUTCOMES**

- Assess and correlate clinical and/or laboratory data through the application of theory and principles.
- Perform and/or interpret laboratory calculations.
- Select appropriate courses of action in accordance with established laboratory procedures.
- Evaluate laboratory data to recognize, and report, clinically relevant results according to established procedures.

**PLEASE NOTE** - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

**GENERAL EDUCATION REQUIREMENTS (31 CREDITS)**

**MATHEMATICS (3 credits)**

MATH 124 or above

**ENGLISH COMPOSITION (3-5 credits)**

ENG 100 or 101 or 113

**COMMUNICATIONS (3 credits)**

ENG 102 or 114

**HUMAN RELATIONS (3 credits)**

Recommended: PHIL 135 Introduction to Ethics

**NATURAL SCIENCE (12 credits)**

BIOL 189 or 196 and CHEM 110 and 111; or CHEM 121 and 122

**FINE ARTS/HUMANITIES/SOCIAL SCIENCES (3 credits)**

Recommended: COM 101 Oral Communication

**U.S. AND NEVADA CONSTITUTIONS (4-6 credits)**

Recommended: PSC 101 Introduction to American Politics

**SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)**

CLS 151	Phlebotomy	2
CLS 152	Applied Phlebotomy	2
CLS 153	Phlebotomy Clinical Practicum	2
CLS 161	Urinalysis and Body Fluids	1
CLS 162	Applied Urinalysis and Body Fluids	1
CLS 241	Clinical Chemistry I	3
CLS 242	Applied Clinical Chemistry I	2
CLS 251	Immunology/Immunohematology I	2
CLS 252	Applied Immunology/Immunohematology I	2
CLS 265	Laboratory Operations I	1
CLS 271	Clinical Microbiology I	3
CLS 272	Applied Clinical Microbiology I	2
CLS 291	Hematology I	2
CLS 292	Applied Hematology I	2
CLS 294	Clinical Practicum I	2
CLS 295	Clinical Practicum II	2
CLS 296	Clinical Practicum III	4

See Degree Plan on next page.

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
  - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit [www.csn.edu/honors](http://www.csn.edu/honors).
  - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
  - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



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**FULL-TIME STUDENT DEGREE PLAN**

*Plan can be modified to fit the needs of part-time students by adding more semesters.*

<b>FIRST SEMESTER</b>	<b>Credits</b>
Complete Mathematics (see courses previous page)	3
ENG 100 or 101 or 113	3-5
PHIL 135 Introduction to Ethics	3
BIOL 189 or BIOL 196 <sup>1</sup>	4
<b>TOTAL CREDITS</b> .....	<b>13-15</b>

<b>SECOND SEMESTER</b>	<b>Credits</b>
ENG 102 or ENG 114	3
CHEM 110 or CHEM 121 <sup>2</sup>	4
COM 101 Oral Communication	3
PSC 101 Introduction to American Politics	4
<b>TOTAL CREDITS</b> .....	<b>14</b>

<b>THIRD SEMESTER</b>	<b>Credits</b>
CHEM 111 or CHEM 122	4
CLS 161 Urinalysis and Body Fluids	1
CLS 162 Applied Urinalysis and Body Fluids	1
CLS 265 Laboratory Operations I	1
CLS 271 Clinical Microbiology I	3
CLS 272 Applied Clinical Microbiology I	2
<b>TOTAL CREDITS</b> .....	<b>12</b>

<b>FOURTH SEMESTER</b>	<b>Credits</b>
CLS 294 Clinical Practicum I	2
<b>TOTAL CREDITS</b> .....	<b>2</b>

<b>FIFTH SEMESTER</b>	<b>Credits</b>
CLS 151 Phlebotomy	2
CLS 152 Applied Phlebotomy	2
CLS 153 Phlebotomy Clinical Practicum	2
CLS 241 Clinical Chemistry I	3
CLS 242 Applied Clinical Chemistry I	2
<b>TOTAL CREDITS</b> .....	<b>11</b>

<b>SIXTH SEMESTER</b>	<b>Credits</b>
CLS 251 Immunology/Immunohematology I	2
CLS 252 Applied Immunology/Immunohematology I	2
CLS 291 Hematology I	2
CLS 292 Applied Hematology I	2
<b>TOTAL CREDITS</b> .....	<b>8</b>

<b>SEVENTH SEMESTER</b>	<b>Credits</b>
CLS 295 Clinical Practicum II	2
CLS 296 Clinical Practicum III	4
<b>TOTAL CREDITS</b> .....	<b>6</b>

**DEGREE PLAN TOTAL CREDITS**.....**66-68**

<sup>1</sup>Students planning to apply to the Bachelor of Science Medical Laboratory Scientist Program should take BIOL 196.  
<sup>2</sup>Prerequisite for CHEM 121 is CHEM 103 or CHEM 110; or a passing score on the Chemistry Placement Exam.

