

MEDICAL LABORATORY TECHNOLOGY

Associate of Applied Science Degree

MEC

Purpose: The curriculum is designed to prepare students to perform essential laboratory testing on blood and body fluids that is critical to the detection, diagnosis, and treatment of disease. In a medical laboratory, the MLT is part of a team of highly skilled pathologists, technologists, and phlebotomists working together to determine the presence, extent or absence of disease, and helping to evaluate effectiveness of treatment. This program emphasizes “hands-on” practice of laboratory methods in a state-of-the-art laboratory at the Medical Education Campus in Springfield, followed by clinical experience at various affiliating health care organizations.

Upon completion of the program graduates will be eligible to take the American Society for Clinical Pathology (ASCP) Board of Certification examination, and other national certification examinations offered at the technician level.

Transfer Information: Transfer is **not** the primary purpose of an A.A.S. program, but NOVA has articulation agreements that facilitate the transfer of this and other career-oriented programs to selected senior institutions. Students interested in transfer should contact a counselor or their faculty advisor early in their program.

Career Opportunities: Employment for Medical Laboratory Technicians is available in hospital laboratories, private laboratories, physicians' office laboratories, health department laboratories, and industrial medical laboratories.

Admission Requirements:

Students must:

- Comply with all General Admission Requirements for Allied Health Programs.
- Attend a Medical Laboratory Technology Information Session.
- Eligibility for MTH 163 as shown by satisfactory scores on the NOVA placement tests.
- Completed with a grade of “C” or higher: BIO 101 or BIO elective (exclusive of BIO 205); CHM 101 or CHM 111, ENG 111, HLT 141, SDV 101.
- GPA 2.0 at last school attended.
- Proficiency in computer skills and possess ready access to the internet for select online assignments.

Special Accreditation Status: The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS); 5600 North River Road, Suite 720, Rosemont, Illinois 60018; Phone: 773-714-8880; Fax: 773-714-8886; <http://www.naacls.org/>.

| Prerequisites: | Credits |
|---|-----------|
| BIO 101 General Biology I or BIO Elective (exclusive of BIO 205) | 4 |
| CHM 101 General Chemistry I or CHM 111 College Chemistry I | 4 |
| ENG 111 College Composition I | 3 |
| HLT 141 Introduction to Medical Terminology | 1 |
| SDV 101 Orientation to Health Care | <u>1</u> |
| Total | 13 |

| Two Years | Credits |
|--|-----------|
| 1st Semester | |
| BIO 205 General Microbiology | 4 |
| ¹ CST 229 Intercultural Communication | 3 |
| MDL 100 Intro to Medical Lab Technology | 2 |
| MDL 110 Urinalysis and Body Fluids | 2 |
| MDL 196 On-Site Training | <u>1</u> |
| Total | 12 |

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MEDICAL LABORATORY TECHNOLOGY A.A.S.**2nd Semester**

| | | |
|----------------------|--|-----------|
| MDL | 120 Principles of Hematology | 4 |
| MDL | 215 Immunology | 2 |
| MDL | 261 Clinical/Chemistry/Instrumentation I | 4 |
| ² PED | 116 Lifetime Fitness & Wellness | 1 |
| ² PED/RPK | Elective | <u>1</u> |
| | Total | 12 |

3rd Semester

| | | |
|-----|------------------------------------|----------|
| MDL | 266 Clinical Chemistry Techniques | 4 |
| MDL | 276 Clinical Hematology Techniques | <u>4</u> |
| | Total | 8 |

4th Semester

| | | |
|----------------|------------------------------|-----------|
| MDL | 216 Blood Banking | 4 |
| MDL | 251 Clinical Microbiology I | 3 |
| MDL | 252 Clinical Microbiology II | 2 |
| ³ — | Social Science Elective | <u>3</u> |
| | Total | 12 |

5th Semester

| | | |
|----------------|--|-----------|
| ⁴ — | Humanities/Fine Arts Elective | 3 |
| MDL | 265 Advanced Clinical Chemistry | 2 |
| MDL | 277 Clinical Immunohematology & Immunology Technique | 4 |
| MDL | 278 Clinical Microbiology Techniques II | 4 |
| MDL | 281 Clinical Correlations | <u>1</u> |
| | Total | 14 |

Total credits for the A.A.S. Degree in Medical Laboratory Technology = 71 (includes 13 prerequisite credits)

¹ CST 110 Intro to Communication or CST 126 Interpersonal Communication may be substituted for CST 229.

² The PED requirement may be met by one of the following options: PED 116, 2 cr.; **or** PED 116, 1 cr. plus a PED activities course, 1 cr.; **or** PED 116, 1 cr. plus RPK activities course. PED 116 is offered as both a 1-credit and a 2-credit course.

³ The social science elective may be selected from the social/behavioral sciences courses listed under General Education Electives.

⁴ Humanities/fine arts elective may be selected from the humanities/fine arts courses listed under General Education Electives.