

**Northern Virginia Community College 2008-2009 Catalog**  
**Medical Education - Allied Health and Nursing Curricula**

**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 Registry examination, the National Credentialing Agency (NCA) 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); 8410 W. Bryn Mawr Ave., Suite 670, Chicago, IL 60631; Phone: 773-714-8880; Fax: 773-714-8886; www.naacls.org.

**Prerequisites:**

		<b>Credits</b>
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>
	<b>Total</b>	<b>13</b>

**Two Years Credits**

**1st Semester**

BIO	205 General Microbiology	4
MDL	100 Intro to Medical Lab Technology	2
MDL	110 Urinalysis and Body Fluids	2
MDL	196 On-Site Training	1
<sup>1</sup> SPD	229 Intercultural Communication	<u>3</u>
	<b>Total</b>	<b>12</b>

**2nd Semester**

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

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**MEDICAL LABORATORY TECHNOLOGY A.A.S.**

**3rd Semester**

MDL	266 Clinical Chemistry Techniques	4
MDL	276 Clinical Hematology Techniques	4
	<b>Total</b>	<b>8</b>

**4th Semester**

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

**5th Semester**

HIS	101 History of Western Civilization I or HIS 111 History of World Civilization I or HIS 261 Topics in Cultural Ethnicity	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	1
	<b>Total</b>	<b>14</b>

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

<sup>1</sup> SPD 110 Intro to Speech Communication or SPD 126 Interpersonal Communication may be substituted for SPD 229.

<sup>2</sup> 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.

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