



J. Sargeant Reynolds
Community College

[SEARCH](#)[SITE MAP](#)[FORMS](#)[CONTACTS](#)[HELP DESK](#)[PRESS CENTER](#)[CALENDAR](#)[SCHEDULES](#)[LOCATIONS](#)[F.Y.I.](#)

Medical Laboratory Technology

Associate of Applied Science

This program has been revised effective Fall 2006. Visit Page 73 of the [2005-2006 printed and PDFcatalog](#) to view the previous version of the program.

Purpose: The Medical Laboratory major is designed to prepare students for certification and employment as Medical Laboratory Technicians.

Occupational Objectives: Positions for Medical Laboratory Technicians are available in hospitals, private laboratories, physicians' offices, health departments, and industrial medical laboratories.

Admission Requirements: General college curricular admission

Program Notes: Students admitted into this program will be approved for entry into major/clinical courses (MDL 101 and higher) when they have satisfied the following requirements:

1. Completion of one unit of high school biology with a grade of "C" or better or its equivalent (JSRCC [BIO 01 or 101](#)).
2. Completion of one unit of high school chemistry with a grade of "C" or better or its equivalent (JSRCC [CHM 03](#)).
3. Completion of two units of high school algebra with a grade of "C" or better or the equivalent (JSRCC [MTH 03 + 04](#)).
4. Official transcripts from all previously attended high schools and colleges submitted to Central Admissions and Records.
5. Completion of all relevant JSRCC developmental coursework prescribed as a result of JSRCC placement tests.
6. Completion of health forms obtained from program head for physical and eye examinations, including any required immunizations prior to the clinical rotations. Students must be free of any physical or mental condition which might adversely affect their performance as laboratory technicians. Students must also have a criminal background check performed, and possibly a drug screen, prior to placement for clinical rotations.
7. An interview with the program head. The program is open to qualified students who provide evidence of interest, aptitude, and motivation in the areas of both medical laboratory science and direct patient contact.

The program provides opportunities for advanced placement based on evaluation of transcripts, clinical work experience, and/or training in other accredited medical laboratory education programs. Individuals interested in advanced placement should confer with the program head. Students may be required to retake all MDL courses if a delay in completion of the program is encountered. All students must pass a clinical practicum prior to placement

in clinical rotations.

Any student who receives a final grade lower than "C" in any core course (MDL prefix) must repeat the course. Courses with the MDL prefix must be completed successfully before entering Coordinated Practice.

Attendance of one summer session may be required.

Malpractice insurance coverage will be furnished by the college. The student will be required to have appropriate health insurance and be responsible for securing any required uniforms and lab coats.

Upon satisfactory completion of the five-semester program, the graduate will be eligible to take Medical Laboratory Technology registry examinations (e.g., ASCP, NCA, AMT or equivalent) for national certification.

The Medical Laboratory Technology (MDL) classes may be taken for retraining by certified technologists who have been out of the field for a period of time. Permission of the program head is required prior to registration.

Computer Competency Requirement: Students in this program will meet the college's computer competency requirement by successfully completing [ITE 115](#). Students can also meet this requirement by passing the college's computer competency exam, administered in the testing centers on each campus, in which case they will receive college credit for [ITE 115](#). Students not passing the computer competency exam may retake the exam only once.

Program Accreditation and Administration: The Medical Laboratory Technology program is accredited by the National Accreditation Agency for Clinical Laboratory Sciences (NAACLS), 8410 West Bryn Mawr Avenue, Suite 670, Chicago, Illinois 60631 (773-714-8880 and NAACLSinfo@naaccls.org). The program faculty medical director is Dr. Brad T. Siegmund, M.D., a board certified Pathologist, also serving as medical director, Southside Regional Medical Center, Petersburg, Virginia. The program director is Becky M. Clark, M.Ed., MT (ASCP), a seasoned clinical laboratory scientist and certified Medical Technologist with 24 years of experience in the field.

CURRICULUM				
COURSE	TITLE	LECTURE HOURS	LAB HOURS	COURSE CREDITS
SDV 100	College Success Skills	1	0	1
MTH 120 ¹ or MTH 163 ¹	Introduction to Mathematics or Precalculus	3	0	3
CHM 101 ²	General Chemistry			

or CHM 1112	or College Chemistry I	3	3	4
BIO 101	General Biology I	3	3	4
ENG 111	College Composition I	3	0	3
___ ___ ³	Social Science Elective	3	0	3
TOTAL		16	6	18
ITE 115	Basic Computer Literacy	3	0	3
ENG 112	College Composition II	3	0	3
MDL 101	Introduction to Medical Laboratory Techniques	2	3	3
___ ___ ³	Social Science Elective	3	0	3
___ ___ ³	Health or Physical Education Elective	0-2	0-4	2
MDL 110	Urinalysis and Body Fluids	2	3	3
TOTAL		13-15	6-10	17
MDL 125 ⁴	Clinical Hematology I	2	3	3
MDL 190	Coordinated Practice I-MLT Phlebotomy	0	8	2
MDL 210	Immunology and Serology	2	3	3
MDL 251 ⁴	Clinical Microbiology I	2	6	4
TOTAL		6	20	12
MDL 216 ⁵	Blood Banking	2	6	4
MDL 225 ⁶	Clinical Hematology II	2	3	3
MDL 252 ⁶	Clinical Microbiology II	2	3	3
MDL 262 ⁷	Clinical Chemistry and Instrumentation II	3	3	4
TOTAL		9	15	14
MDL 190 ⁸	Coordinated Practice II	0	12	3
MDL 290 ⁸	Coordinated Practice IV	0	12	3
MDL 282 ⁸	Clinical Laboratory Techniques-Coordinated Practice III	0	12	3
TOTAL		0	36	9
Total Minimum Credits for AAS Degree in Medical Laboratory Technology				70

¹ MTH 120 meets the graduation requirement for the AAS degree in Medical Laboratory Technology. Students planning to pursue a four-year degree should take MTH 163.

² CHM 101 meets the graduation requirement for the AAS degree in Medical Laboratory Technology. Students planning to pursue a four-year degree should take CHM 111.

³ A list of approved electives is available from the School of Nursing and Allied Health office.

⁴ This course is offered only in the fall term.

⁵ MDL 210 is a prerequisite or co-requisite for MDL 216.

⁶ This course is offered only in the spring term.

⁷ CHM 101 or CHM 111 is a prerequisite or co-requisite for MDL 262.

⁸ The last semester is a 16 week clinical rotation at a local hospital or clinic.

03.16.06

[Home Page](#) | [Visitor Information](#) | [Student Resources](#) | [Academic Resources](#) | [Workforce Alliance](#)

© J. Sargeant Reynolds Community College

PO BOX 85622 Richmond, Virginia, USA 23285-5622 (804.371.3000)