

Medical Laboratory Technology

Associate of Applied Science

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 or college level biology with a grade of "C" or better or its equivalent (JSRCC BIO 1 or 101).
2. Completion of one unit of high school chemistry with a grade of "C" or better or its equivalent (JSRCC CHM 1).
3. Completion of one unit of high school mathematics with a grade of "C" or better or the equivalent (JSRCC MTH 2).
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 upon entry into the first MDL course. Students must be free of any physical or mental condition that 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. All applicants to the Medical Laboratory Technology AAS degree program must declare their curriculum plan as the Pre-Nursing and Allied Health Career Studies Certificate. (Please see http://dev.jsr.vccs.edu/curriculum/programs/Pre-Nursing_AlliedHealthCSC.htm for information on this career studies certificate.) In order to be officially accepted into the Medical Laboratory Technology program, applicants will need to fulfill certain prerequisites included in the career studies certificate, complete a Medical Laboratory Technology Application packet, and submit to the program director for

consideration for entry. A minimum GPA of 2.5 is required for consideration.

8. 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. Attendance during one summer session may be required.

Any student who receives a final grade lower than "C" in any core course (MDL prefix) must repeat the course. Students failing to obtain "C" or better (D, F or W) in any two MDL prefix courses will be removed from the Medical Laboratory Technology program. Courses with the MDL prefix must be completed successfully prior to entering the final Coordinated Internship courses.

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.

Progression through the Program: The college offers this program in affiliation with the healthcare agencies and practitioners in the communities the college serves. The college relies on its community affiliates to provide clinical education opportunities for its students, expert clinical preceptors, and course instructors for many courses. The often rapid changes in healthcare law, standards of practice, technology, and content of credentialing examinations increasingly necessitate sudden changes in the program's course content, policies, procedures and course scheduling. As a result, the college cannot guarantee every student continuous and uninterrupted clinical and course instruction as outlined in the printed catalog curriculum for this program. Circumstances beyond the control of the college may necessitate the postponement of course offerings or changes in the sequencing and/or location of scheduled courses or clinical assignments. Additionally, the college may have to change the instructor for courses after instruction has started.

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, 5600 N River Rd, Suite 720, Rosemont, IL 60018 (773-714-8880 and NAACLSinfo@naacils.org). The program's 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), an experienced clinical laboratory scientist and certified Medical Technologist.

CURRICULUM				
COURSE	TITLE	LEC. HRS.	LAB. HRS.	CRS. CRE.
*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 or *CHM 111 ²	General Chemistry 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/Behavioral Science Elective	3	0	3
TOTAL		16	6	18
*ITE 115	Introduction to Computer Applications and Concepts	3	0	3
*ENG 112	College Composition II	3	0	3
MDL 101	Introduction to Medical Laboratory Techniques	2	3	3
* ____ ³	Humanities/Fine Arts Elective	3	0	3
* ____ ³	Personal Wellness 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 Internship I-MLT Phlebotomy	0	8	2
MDL 210	Immunology and Serology	2	3	3
MDL 251 ⁴	Clinical Microbiology I	2	4	3
TOTAL		6	18	11
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 Internship II	0	12	3
MDL 290 ⁸	Coordinated Internship IV	0	12	3
MDL 282 ⁸	Clinical Laboratory Techniques- Coordinated Internship III	0	12	3
MDL 281	Clinical Correlations (online courses)	1	0	1
TOTAL		0	36	10
Total Minimum Credits for AAS Degree in Medical Laboratory Technology				70
<p>* This course is included in the Pre-Nursing and Allied Health Career Studies Certificate.</p> <p>¹MTH 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.</p> <p>²CHM 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.</p> <p>³A list of approved general education electives (humanities/fine arts, social/behavioral sciences, mathematics, science, and personal wellness) is provided in the General Education section of the catalog under Curriculum Planning and Design.</p> <p>⁴This course is offered only in the spring term.</p> <p>⁵MDL 210 is a prerequisite or co-requisite for MDL 216.</p> <p>⁶This course is offered only in the fall term.</p> <p>⁷CHM 101 or CHM 111 is a prerequisite or co-requisite for MDL 262.</p> <p>⁸The last semester is a 13-16 week clinical rotation at a local hospital or clinic.</p>				