PROGRAMS

MEDICAL LABORATORY TECHNOLOGY

Contact(s): Dadrienne Johnson

The mission of Stanly Community College's Medical Laboratory Technology program is to train laboratory professionals who will make a positive impact in healthcare through leadership that will assure excellence in the practice of laboratory medicine.

The Medical Laboratory Technology curriculum prepares individuals to perform clinical laboratory procedures in chemistry, hematology, microbiology, and Immunohematology that may be used in the maintenance of health and diagnosis/treatment of disease. Course work emphasizes mathematical and scientific concepts related to specimen collection, laboratory testing and procedures, quality assurance and reporting/recording and interpreting findings involving tissues, blood, and body fluids.

Students who successfully complete the program are eligible to take the national certification examination administered by the Board of Registry of American Society for Clinical Pathology and become a certified Medical Laboratory Technician (MLT) (ASCP). With additional education and/or technical experience, graduates may also advance in the field to become a technologist, research specialist, manager, or educator. The Medical Laboratory/Clinical Laboratory Science field allows students to advance to a BS in Laboratory Science, a Master's degree in Molecular Diagnostics, and a doctorate degree as a DCLS (Doctorate in Clinical Laboratory Science).

Employment opportunities for graduates include laboratories in hospitals, medical offices, industry, and research facilities.

Learning Outcomes

- Collect, prepare and evaluate biological specimens and other substances for analysis used in the diagnosis and treatment of patients.
- Discriminate and properly document the accuracy and validity of laboratory information.
- Appraise principles and practices of quality assessment.
- Interpret clinical signs, specimen types, and results of culture.
- Perform critical thinking, problem solving, and troubleshooting techniques.
- Demonstrate communication skills sufficient to serve the needs of the patient, the public, and members of the healthcare team and technical ability sufficient to train new employees.
- Recall and apply concepts and skills necessary to perform as a medical laboratory technician.

MLT Program Outcomes

Graduation Rates, Certification Exam Pass Rates, and Job Placement Rates

Accreditation

The SCC Medical Laboratory Technology Program is accredited by:

National Accrediting Agency for Clinical Laboratory Sciences
5600 N. River Rd. Suite 720
Rosemont, IL 60018-5119
(847) 939-3597
(773) 714-8880
(773) 714-8886 (FAX)
info@naacls.org
www.naacls.org

Medical Laboratory Technology Degree – A45420

First Year		
Fall		**Credit Hours**
ACA 111	College Student Success	1
BIO 163	Basic Anatomy & Physiology	5
CHM 151	General Chemistry I	4
MLT 110	Introduction to Mlt	3
MLT 126	Immunology and Serology	2
MLT 127	Transfusion Medicine	3
	Credit Hours	18
Spring		**Credit Hours**
CHM 152	General Chemistry II	4
CIS 110	Introduction to Computers	3
MED 120	Survey of Medical Terminology	2
MLT 111	Urinalysis & Body Fluids	2

MLT 120	Hematology/Hemostasis I	4
MLT 140	Introduction to Microbiology	3
	Credit Hours	18
Summer		**Credit Hours**
ENG 111	Writing and Inquiry	3
MLT 220	Hematology/Hemostasis II	3
MLT 253	MLT Practicum I	3
	Credit Hours	9
Second Year		
Fall		**Credit Hours**
ENG 112 or ENG 114	Writing and Research in the Disciplines Professional Research & Reporting	3
MAT 143 or MAT 152	Quantitative Literacy Statistical Methods I	3-4
MLT 130	Clinical Chemistry I	4
MLT 240	Special Clinical Microbiology	3
MLT 265	MLT Practicum II	5
	Credit Hours	18-19
Spring		**Credit Hours**
MLT 217	Professional Issues	1
MLT 275	MLT Practicum III	5
Humanities elective[*]		3
Social Science elective[*]		3
	Credit Hours	12
	Total Credit Hours	75-76

AGE Pathway

Courses		**Credit Hours**
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
ENG 111	Writing and Inquiry	3
ENG 112 or ENG 114	Writing and Research in the Disciplines Professional Research & Reporting	3
MAT 152	Statistical Methods I	4
BIO elective[*]		5
CHM elective[*]		8
Elective[*]		31
Humanities elective[*]		3
Social Behavioral Science elective[*]		3
	Total Credit Hours	64

BIO elective

Courses		Credit Hours
BIO 163	Basic Anatomy & Physiology	5
Courses		Credit Hours
BIO 165	Anatomy and Physiology I	4
BIO 166	Anatomy and Physiology II	4
Courses		Credit Hours
BIO 168	Anatomy and Physiology I	4
BIO 169	Anatomy and Physiology II	4

CHM elective

Courses		Credit Hours
CHM 131	Introduction to Chemistry	3
CHM 132	Organic and Biochemistry	4
Courses		Credit Hours
CHM 151	General Chemistry I	4
CHM 152	General Chemistry II	4

Elective list

Courses		Credit Hours
ART 111	Art Appreciation	3
ART 114	Art History Survey I	3
ART 115	Art History Survey II	3
ART 116	Survey of American Art	3
ART 117	Non-Western Art History	3
BIO 110	Principles of Biology	4
BIO 111	General Biology I	4
BIO 112	General Biology II	4
BIO 140	Environmental Biology	3
BIO 163	Basic Anatomy & Physiology	5
BIO 165	Anatomy and Physiology I	4
BIO 166	Anatomy and Physiology II	4
BIO 275	Microbiology	4
BUS 110	Introduction to Business	3
BUS 115	Business Law I	3
BUS 137	Principles of Management	3
CHM 131	Introduction to Chemistry	3
CHM 132	Organic and Biochemistry	4
CHM 151	General Chemistry I	4
CHM 152	General Chemistry II	4

Programs

CIS 110	Introduction to Computers	3
CIS 115	Introduction to Programming and Logic	3
CJC 111	Introduction to Criminal Justice	3
CJC 121	Law Enforcement Operations	3
CJC 141	Corrections	3
COM 231	Public Speaking	3
CSC 134	C++ Programming	3
CSC 139	Visual BASIC Programming	3
CSC 151	JAVA Programming	3
CTS 115	Information Systems Business Concepts	3
ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
EDU 216	Foundations of Education	3
ENG 111	Writing and Inquiry	3
ENG 112	Writing and Research in the Disciplines	3
ENG 114	Professional Research & Reporting	3
ENG 125	Creative Writing I	3
ENG 231	American Literature I	3
ENG 232	American Literature II	3
ENG 241	British Literature I	3
ENG 242	British Literature II	3
HEA 110	Personal Health/Wellness	3
HIS 111	World Civilizations I	3
HIS 112	World Civilizations II	3
HIS 121	Western Civilization I	3
HIS 122	Western Civilization II	3
HIS 131	American History I	3
HIS 132	American History II	3
HIS 236	North Carolina History	3
HUM 110	Technology and Society	3
HUM 115	Critical Thinking	3
HUM 120	Cultural Studies	3
HUM 121	The Nature of America	3
HUM 122	Southern Culture	3
HUM 150	American Women's Studies	3
HUM 160	Introduction to Film	3
HUM 180	International Cultural Exploration	3
MAT 143	Quantitative Literacy	3
MAT 152	Statistical Methods I	4
MAT 171	Precalculus Algebra	4

MAT 172	Precalculus Trigonometry	4
MAT 263	Brief Calculus	4
MAT 271	Calculus I	4
MAT 272	Calculus II	4
MAT 273	Calculus III	4
MUS 110	Music Appreciation	3
MUS 112	Introduction to Jazz	3
MUS 113	American Music	3
MUS 210	History of Rock Music	3
PED 111	Physical Fitness I	1
PED 113	Aerobics I	1
PED 120	Walking for Fitness	1
PED 125	Self-Defense: Beginning	1
PHI 215	Philosophical Issues	3
PHI 240	Introduction to Ethics	3
PHY 110	Conceptual Physics	3
PHY 151	College Physics I	4
PHY 152	College Physics II	4
POL 120	American Government	3
POL 210	Comparative Government	3
PSY 150	General Psychology	3
PSY 237	Social Psychology	3
PSY 241	Developmental Psychology	3
PSY 263	Educational Psychology	3
PSY 281	Abnormal Psychology	3
REL 110	World Religions	3
REL 112	Western Religions	3
REL 211	Introduction to Old Testament	3
REL 212	Introduction to New Testament	3
REL 221	Religion in America	3
SOC 210	Introduction to Sociology	3
SOC 213	Sociology of the Family	3
SOC 232	Social Context of Aging	3
SPA 111	Elementary Spanish I	3
SPA 112	Elementary Spanish II	3
SPA 141	Culture and Civilization	3
SPA 161	Cultural Immersion	3
SPA 181	Spanish Lab 1	1
SPA 182	Spanish Lab 2	1