

# CLINICAL LABORATORY SCIENCE TECHNOLOGY

## Clinical Laboratory Science Technology Major

ARTS & SCIENCES AND BUSINESS DIVISION

### Program of Study

(This is a joint program with Lorain County Community College.)

The Clinical Laboratory Science Technology program prepares graduates for employment in hospital, urgent care, physicians' offices, research, and industry laboratory settings. Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

Upon completion of the Clinical Laboratory Science (CLSC) Technology program, each graduate should be able to:

- Collect and process biological specimens appropriately for the various departments in the clinical laboratory
- Perform routine clinical laboratory testing in the Hematology, Immunohematology, Chemistry, Microbiology, Immunology/Serology, and Coagulation areas of the clinical laboratory
- Operate and maintain laboratory instrumentation in the Hematology, Immunohematology, Chemistry, Microbiology, Immunology/Serology, and Coagulation areas of the clinical laboratory
- Evaluate patient and quality test results, recognizing normal, abnormal, and critical values, and take appropriate follow-up action when necessary
- Recognize the clinical significance of laboratory results in the diagnosis and treatment of disease
- Participate in the appropriate aspects of a laboratory quality assurance program
- Recognize various problems that occur and offer solutions in pre-analytical, analytical, and post-analytical phases of laboratory testing
- Demonstrate sufficient use of oral and written communication to meet the needs of the laboratory, and patient care
- Demonstrate sufficient technical skill in the use of laboratory information systems to meet the needs of the laboratory
- Demonstrate a professional attitude in appearance, work ethic, and laboratory safety
- Demonstrate the performance of routine procedures to students or new employees as assigned by their supervisor
- Successfully pass a National Certification Exam (ASCP or NCA) in Clinical Laboratory Science Technology

### POTENTIAL OCCUPATIONS

- Medical Laboratory Technician
- Clinical Laboratory Technician

### Associate of Applied Science

#### TECHNICAL CONCENTRATION

		Credit Hrs.
BIO 2010	Biology I . . . . .	4
BIO 2015	Biology I Lab . . . . .	1
BIO 2020	Biology II . . . . .	4
BIO 2025	Biology II Lab . . . . .	1
CHM 1010	Introduction to General Chemistry . . . . .	3
CHM 1015	Introduction to General Chemistry Lab . . . . .	1
CHM 1020	Introduction to Organic and Biochemistry . . . . .	3
CHM 1025	Introduction to Organic and Biochemistry Lab . . . . .	1

#### LORAIN CC COURSES TAUGHT ON TERRA CC CAMPUS

>**CLSC 111	Introduction/Clinical Laboratory Science Technology . . . . .	2
>**CLSC 112	Clinical Laboratory Science Analysis/Calculations . . . . .	2
>**CLSC 123	Advanced Hematology and Immunohematology Case Studies . . . . .	2
>**CLSC 131	Introduction to Hematology . . . . .	2
>**CLSC 132	Body Fluids and Urinalysis . . . . .	2
>**CLSC 133	Hematology I / Urinalysis Clinical Practicum . . . . .	3
>**CLSC 134	Advanced Hematology and Hemostasis . . . . .	2
>**CLSC 135	Immunohematology Concepts and Procedures . . . . .	2
>**CLSC 136	Hematology II / Immunohematology Clinical Practicum . . . . .	3
>**CLSC 213	Clinical Microbiology, Immunology and Serology . . . . .	9
>**CLSC 221	Clinical Chemistry . . . . .	10
	<b>Total Technical Credit Hours . . . . .</b>	<b>57</b>

#### GENERAL EDUCATION AND RELATED COURSES

GEN 1000	First Year Seminar . . . . .	1
ENG 1050	College Composition I . . . . .	3
ENG 1060	College Composition II . . . . .	3
SOC 2010	Fundamentals of Sociology . . . . .	3
	*Arts and Humanities Elective *Social Science Elective OR † Computer Information Systems Electives . . . . .	3
	<b>Total General Education and Related Credit Hours . . . . .</b>	<b>13</b>
	<b>TOTAL CREDIT HOURS . . . . .</b>	<b>70</b>

American Heart Association Healthcare Provider certification is required upon entrance into the program.

> Indicates that this course has a prerequisite.

\*\* Indicates that a grade of "C" (2.0) or better must be earned in order to continue in the sequence OR indicates that a student may select either course, which may have an effect on the total credit hours.

Students who expect to continue on for a Baccalaureate degree should consider taking MTHM 171, CHMY 171 and 172, and consult with a college counselor.

^ A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of 13 more credit hours.

\* See page 101 for a listing of specific electives.

† See your advisor for appropriate course selection.

All students graduating from Terra State Community College with an Associate degree of any kind will be functionally proficient in common computer operations and applications. Please see your academic advisor or academic division office for further details.

To determine when courses are scheduled, see program curriculum sheet which is available from the Enrollment Services office in Building A/Room 100, from the Arts & Sciences and Business Division, Building A/Room 202 or on the web at [www.terra.edu](http://www.terra.edu).