

Proposed- Program Configurations

10-513-1 Medical laboratory Technician Aligned Program Type

Outcomes

Credits

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| General Studies | 24.00 |
| Technical Studies | 40.00 |
| Elective | 3.00 |
| Total Credits | 67.00 |

Summer Session 1

| Course# | Course Title | Credits | Function |
|------------|--|---------|-----------------|
| 10-809-xxx | Gen Ed-Any Soc. Science Course (any SO) course from list | 3.00 | General Studies |
| 10-809-xxx | Gen Ed -Any Behavioral Science (any BE) Course from list | 3.00 | General Studies |

Semester4

| Course# | Course Title | Credits | Function |
|------------|--|---------|-------------------|
| 10-513-140 | Advanced Microbiology | 2.00 | Technical Studies |
| 10-513-151 | Clinical Experience 1 | 3.00 | Technical Studies |
| 10-513-152 | Clinical Experience 2 | 4.00 | Technical Studies |
| | Additional Technical Studies Credits as District Option (could be a single course or multiple courses) | 4.00 | Technical Studies |

Semester 3

| Course# | Course Title | Credits | Function |
|------------|-----------------------|---------|-------------------|
| 10-513-130 | Advanced Hematology | 2.00 | Technical Studies |
| 10-513-131 | Clinical Chemistry 1 | 3.00 | Technical Studies |
| 10-513-132 | Clinical Chemistry 2 | 2.00 | Technical Studies |
| 10-513-133 | Clinical Microbiology | 4.00 | Technical Studies |
| 10-xxx-xxx | Elective | 3.00 | Elective |

Semester 2

| Course# | Course Title | Credits | Function |
|------------|----------------------------------|---------|-------------------|
| 10-513-109 | Blood Bank | 4.00 | Technical Studies |
| 10-513-114 | Urinalysis | 2.00 | Technical Studies |
| 10-513-121 | Coagulation | 1.00 | Technical Studies |
| 10-513-120 | Basic Hematology | 3.00 | Technical Studies |
| 10-801-xxx | Gen Ed-Any Comm Course from list | 3.00 | General Studies |
| 10-806-197 | Microbiology | 4.00 | General Studies |

Semester 1

For more information, Contact Barb Tuchscherer-Department Chair-Allied Health, tuchschb@fvtc.edu or (920) 735-5774

| Course# | Course Title | Credits | Function |
|----------------|---|----------------|-------------------|
| 10-513-110 | Basic Lab Skills | 1.00 | Technical Studies |
| 10-513-111 | Phlebotomy | 2.00 | Technical Studies |
| 10-513-113 | QA Lab Math | 1.00 | Technical Studies |
| 10-806-177 | General Anatomy & Physiology | 4.00 | General Studies |
| 10-513-115 | Basic Immunology Concepts | 2.00 | Technical Studies |
| 10-806-186 | Intro to Biochemistry | 4.00 | General Studies |
| 10-801-xxx | Gen Ed-Any Comm Course from List | 3.00 | General Studies |

Program Course List

| Number | Title | Credits | Relationship | Description | Pre/Corequisites |
|-------------------|-------------------------|----------------|---------------------|---|--|
| 10-513-109 | Blood Bank | 4.00 | Child | Focuses on blood banking concepts and procedrues including blood typing, compatability testing, work ups for adverse reaction to transfusions, disease states and donor activities. | Pre/Co: Basic Immunology Concepts Basic Lab Skills QA Lab Math |
| 10-513-110 | Basic Lab Skills | 1.00 | Child | This course explores health career options and the fundamental principles and procedures performed in the clinical laboratory. You will utilize medical terminology and basic laboratory equipment. You will follow required safety and infection control procedures and perform simple laboratory tests. | Admission into the Phlebotomy or CLT program |
| 10-513-111 | Phlebotomy | 2.00 | Child | This course provides opportunities for learners to perform routine venipuncture, routine capillary puncture and | Basic Lab Skills (or consent of the instructor) |

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| | | | | special collection procedures. | |
| 10-513-113 | QA Lab Math | 1.00 | Chil | This course focuses on performing the mathematical calculations routinely used in laboratory "ttiogs You will | Admission to the CLT program |
| | | | | explore the concepts of quality control and quality | |
| 10-513-114 | Urinalysis | 2.00 | Chil | assurance in the laboratory. This course prepares you to perform a complete urinalysis which includes physical, chemical and microscopic analysis. You will explore renal physiology and correlate urinalysis results with clinical conditions. | Basic Lab Skills QA Lab Math |
| 10-513-115 | Basic Immunology Concepts | 2.00 | Chil | This course provides an overview of the immune system including laboratory testing methods for diagnosis of immune system disorders, viral and bacterial infections. | Acceptance into the CLT Program |
| 10-513-120 | Basic Hematology | 3.00 | Chil | This course covers the theory and principles of blood cell production and function, and introduces you to basic practices and procedures in the hematology laboratory. | 513-110: Basic Lab Skills 513-111: Phlebotomy 513-113: QA Lab Math |
| 10-513- | Coagulation | 1.00 | Chil | This course | 513-110: Basic |

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|------------|-----------------------------|------|-------|---|--|
| 121 | | | | introduces the theory and principles of coagulation and explores mechanisms involved in coagulation disorders. Emphasis is placed upon laboratory techniques used to diagnose disease and monitor treatment. | Lab Skills 513-111: Phlebotomy 513-113: QA Lab Math 513-120: Basic Hematology |
| 10-513-130 | Advanced Hematology | 2.00 | Child | This course explores mechanisms involved in the development of hematological disorders. Emphasis is placed upon laboratory techniques used to diagnose disorders and monitor treatment. | 513-120: Basic Hematology |
| 10-513-131 | Clinical Chemistry 1 | 3.00 | Child | Introduces Clinical Chemistry techniques and procedures for routine analysis using photometric, potentiometric and separation techniques Topics in this course include pathophysiology and methodologies for carbohydrate, lipids, proteins, renal function and blood gas analysis. | Intro to Biochemistry Gen Anatomy & Physiology Basic Lab Skills QA Lab Math Urinalysis |
| 10-513-132 | Clinical Chemistry 2 | 2.00 | Child | A continuation of Clinical Chemistry 1, this course | Clinical Chemistry 1 |

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|-------------------|------------------------------|------|-------|---|---|
| | | | 5774 | includes techniques and procedures for analysis using sophisticated laboratory instrumentation. Topics include pathophysiology and | |
| | | | | methodologies for hepatic, bone, cardiac markers, tumor markers, endocrine function, fetal function, miscellaneous body fluids, and toxicology. | |
| 10-513-133 | Clinical Microbiology | 4.00 | Child | This course presents the clinical importance of infectious diseases with emphasis upon the appropriate collection, handling and identification of clinically relevant bacteria. Disease states, modes of transmission and methods of prevention and control, including antibiotic susceptibility testing, will also be discussed. | Microbiology Admission to the CLT program |
| 10-513-140 | Advanced Microbiology | 2.00 | Child | This course provides an overview of acid fast organisms, fungi, parasites, and anaerobic bacteria. The organisms, their pathophysiology, epidemiology, the diseases and conditions that they cause, | 10-513-133: Clinical Microbiology |

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|-------------------|------------------------------|------|-------|--|---|
| | | | | laboratory methods of handling, culturing and identification will be discussed. | |
| 10-513-151 | Clinical Experience 1 | 3.00 | Child | In this clinical you will practice the principles and procedures of laboratory medicine as an entry level Clinical Laboratory Technician in a clinical laboratory setting. You will learn to operate state of the art instruments and report results on Laboratory Information Svsterns. | Must have earned a "C" or better in all of the CLT courses. |
| 10-513-152 | Clinical Experience 2 | 4.00 | Child | Provides continuing practice for the principles and procedures of laboratory medicine as an entry level Clinical Laboratory Technician in a clinical laboratory setting. You will learn to operate state of the art instruments and report results on Laboratory Information Systems. | Must have earned a "C" or better in all of the CLT courses |