



Medical Laboratory Technician (10-513-1)

Associate of Applied Science

Effective 2024/2025

The course sequence shown on this sheet is the recommended path to completion. Courses will be scheduled in the terms indicated here.

All courses should be taken in the order shown to help you stay on track and graduate according to your academic plan.

Courses in this program may be offered in a variety or combination of formats (for example: in-person, video conferencing, online, etc.).

R-D Racine/days, F=Fall, S=Spring, SU=Summer

| Term | Course # | Cr. | Course Title | Requisites (prereq- before/ coreq-with) | R-D |
|------|--------------------------|-----|---|---|-----|
| 1 | 890-155 | 1 | 📍 Gateway to Success (G2S) | | F |
| 1 | *513-110 | 1 | Basic Lab Skills | Prereq: Program Admission | F |
| 1 | *513-111 | 2 | Phlebotomy | Prereq: Program Admission | F |
| 1 | *513-113 | 1 | 🎓 QA Lab Math | | F |
| 1 | 801-136 | 3 | English Composition 1 ^{1,2} | Prereq: 831-103 OR 851-757 | F |
| 1 | 806-177 | 4 | General Anatomy and Physiology ^{1,2,8} | | F |
| 2 | 801-196 OR 801-198 | 3 | Oral/Interpersonal Communication OR Speech ² | | S |
| 2 | 806-186 | 4 | 🎓 Introduction to Biochemistry | Prereq: 806-134 OR 806-177 OR 806-209 OR 806-212 | S |
| 2 | 806-197 | 4 | 🎓 Microbiology ^{1,2} | Prereq: 806-105 OR 806-177 OR 806-196 OR 806-238 | S |
| 2 | 809-166 | 3 | Ethics: Theory & Applications, Intro to ^{1,2} | Prereq: 838-105 OR 851-757 | S |
| 3 | *513-114 | 2 | Urinalysis ¹⁰ | Prereq: 806-177; Advisor Consent | F |
| 3 | *513-115 | 2 | Basic Immunology Concepts ¹⁰ | Prereq: 806-177; 806-197 | F |
| 3 | *513-116 | 4 | Clinical Chemistry ¹¹ | Prereq: 806-186; Advisor Consent | F |
| 3 | *513-120 | 3 | Basic Hematology ¹⁰ | Prereq: 806-177; Advisor Consent | F |
| 3 | *513-133 | 4 | Clinical Microbiology ¹² | Prereq: 806-197; Advisor Consent | F |
| 4 | *513-109 | 4 | Blood Bank | Prereq: Instructor Consent | S |
| 4 | *513-121 | 1 | Coagulation | Prereq: 513-120 | S |
| 4 | *513-130 | 2 | Advanced Hematology | Prereq: 513-120 | S |
| 4 | *513-140 | 2 | Advanced Microbiology | Prereq: 513-133 | S |
| 4 | *513-170 | 2 | Introduction to Molecular Diagnostics | Prereq: 513-116 | S |
| 4 | 809-198 | 3 | Psychology, Introduction to ^{1,2} | Prereq: 838-105 OR 851-757 | S |
| 5 | *513-151 | 3 | Clinical Experience I | Prereq: 513-114; 513-115; 513-116; 513- 120; 513-133 | SU |
| 5 | *513-152 | 4 | Clinical Experience II ^{5,8,9} | Prereq: 513-151 | SU |

Minimum Program Total Credits Required: 62

Notes associated with courses (identified by a superscript number at the end of the course title) are located on the back of the sheet.

📍 Mastery of this course will put students on a path to achieve successful degree completion, on-time graduation, and enrich the college experience. Students are required to take this course in their first semester of enrollment. Please see an advisor for details.

🎓 = Milestone Course. Faculty have identified this course as providing a strong foundation for success throughout the program.

(*) indicates students must achieve a minimum of 2.0 ("C") or above for these major courses to meet graduation requirements.

Medical Laboratory Technician (10-513-1)

At career entry, the medical laboratory technician/medical laboratory technician will be able to perform routine clinical laboratory tests (such as hematology, clinical chemistry, immunohematology, microbiology, serology/immunology, coagulation, molecular, and other emerging diagnostics) as the primary analyst making specimen-oriented decisions on predetermined criteria, including a working knowledge of critical values. Communications skills will extend to frequent interactions with members of the healthcare team, external relations, customer service and patient education. The level of analysis ranges from waived and point of care testing to complex testing encompassing all major areas of the medical laboratory. The medical laboratory technician will have diverse functions in areas of preanalytical, analytical, post-analytical processes. The medical laboratory technician will have responsibilities for information processing, training, and quality control monitoring wherever medical laboratory testing is performed.

Program Learning Outcomes

Graduates will be able to:

1. Practice laboratory safety and regulatory compliance.
2. Collect and process biological specimens.
3. Monitor and evaluate quality control in the laboratory.
4. Apply modern clinical methodologies including problem solving and trouble shooting according to predetermined criteria.
5. Perform information processing in the clinical laboratory.
6. Model professional behaviors, ethics and appearance.

Essential Career Competencies

Gateway's six essential career competencies are the general attitudes and skills promoted and assessed by all programs. All Gateway graduates will develop skills in:

- Communication Competence
- Professionalism and Career Management
- Cultural Competence
- Critical Thinking and Problem Solving
- Teamwork and Collaboration
- Technology Competence

Admission Requirements

1. Students must submit an application and pay \$30 fee.
2. Students must meet one of the following: minimum cumulative high school GPA of 2.6 (unweighted); earned at least 12 college credits with a minimum GPA of 2.0; or complete valid reading and writing placement assessments.
3. Students must complete a Background Disclosure form and must request and pay for a background check. Applicants for all health science programs are subject to a review of their criminal backgrounds. Positive background checks may negatively impact your ability to pursue a health career at Gateway Technical College. Each case will be individually evaluated based on all available evidence provided to the college.

Graduation Requirements

- Minimum 62 credits with a cumulative GPA of 2.0 or above.
- *Minimum of 2.0 ("C") or above for these major courses.
- Complete 890-155 Gateway to Success (G2S) in the first semester.

For a complete list of Graduation Requirements, check the Student Handbook or [Graduation Requirements](#).

Notes

1. Satisfactory college placement results (through multiple measures or placement test scores) or successful remediation is required prior to enrollment. See an advisor for details.
2. A credit for prior learning assessment is available for this course. For more information, please contact cfpl@gtc.edu.
3. Students are selected based on completion of academic eligibility requirements and district residency. See gtc.edu/petitioning for additional information. Students must meet current petition requirements at the time they are eligible to enroll in 513 courses.
4. A liability insurance fee per semester is required.
5. A physical examination and immunization are required prior to admission to the first clinical course. Clinical sites may require proof of health insurance.
6. Please note that your program may require additional fee(s) for: Criminal Background Check, Medical Document Manager and/or Drug Testing.
7. Must be completed to be eligible to take the MLT (ASCP) exam.
8. Course 806-151 Supplemental Chemistry for Healthcare is a recommended course to provide supplemental chemistry and math knowledge that is needed for this program.
9. Students must complete 288 hours of unpaid clinical experience at a clinical site. Students will be required to travel to the assigned clinical site for 7 weeks to complete rotations in each area of the clinical laboratory.
10. Students must have received a "B-" or better in 806-177 General Anatomy & Physiology before they can enroll in this course.
11. Students must have received a "B-" or better in 806-186 Introduction to Biochemistry before they can enroll in this course.
12. Students must have received a "B-" or better in 806-197 Microbiology before they can enroll in this course.

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for one year or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult My Gateway for exact fee amounts. Occasionally, the District may offer a particular course out of published sequence. By doing so, the District does not obligate itself to offer succeeding courses out of published sequence.