

The Technical Certificate (T.C.) in Chemical Laboratory Specialist provides students with exposure to the principles of biological sciences, chemistry, and mathematics necessary for success in a scientific work environment.

Career Options

Chemical laboratory technicians work under the direction of a laboratory supervisor and have diverse work environments that range from government laboratories to manufacturing laboratory environments. Many of the courses contained within this certificate are also prerequisites for allied health and STEM (science, technology, engineering, and mathematics) degree programs.

<input checked="" type="checkbox"/> Task
<input type="checkbox"/> Explore career resources at fscj.edu/student-services/career-development .
<input type="checkbox"/> Meet with your advisor each term.
<input type="checkbox"/> Satisfy the technical certificate graduation requirements.

Articulation

This certificate articulates directly into the Biomedical Sciences (T300) (B.S.) degree. Contact an advisor to determine the career education path that is best for you.

Advising

(904) 646-2300 or advising@fscj.edu.

Sample Roadmap

This roadmap provides general guidance about required courses. For specific guidance about your individual academic degree plan, please see an advisor. Also refer to the College Catalog and class schedules for additional information.

A list of Professional Elective Coursework Options is available on page 2. Students must choose the Biological Sciences or Chemical Laboratory option prior to enrolling in professional coursework.

Term 1

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours
<input type="checkbox"/>	<i>Biological Sciences:</i> BSC 2010C: Principles of Biology I or <i>Chemical Laboratory:</i> CHM 2045C: General Chemistry and Qualitative Analysis I	4
<input type="checkbox"/>	Professional Elective	3-5
<input type="checkbox"/>	Professional Elective	3-5

Term 2

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours
<input type="checkbox"/>	<i>Biological Sciences:</i> BSC 2011: Principles of Biology II or <i>Chemical Laboratory:</i> CHM 2046C: General Chemistry and Qualitative Analysis II	4
<input type="checkbox"/>	Professional Elective	3-5
<input type="checkbox"/>	Professional Elective	3-5

Term 3

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours
<input type="checkbox"/>	<i>Biological Sciences:</i> BSC 2085C: Human Anatomy and Physiology I or <i>Chemical Laboratory:</i> CHM 2210C: Organic Chemistry I	4
<input type="checkbox"/>	Professional Elective	3-5
<input type="checkbox"/>	Professional Elective (if needed)	3-5

Term 4

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours
<input type="checkbox"/>	<i>Biological Sciences:</i> BSC 2086C: Human Anatomy and Physiology II or <i>Chemical Laboratory:</i> CHM 2211C: Organic Chemistry II	4

Total Program Credit Hours

The **Chemical Laboratory Specialist** T.C. program requires a **minimum of 37 credit hours**. Total program hours may vary based on the student's individual degree plan. Please see an advisor for individual guidance.

Important for You to Know

This academic roadmap does not include **developmental education courses** in reading, writing, and/or mathematics that you may be required to take. Students who place into developmental education courses are required to complete designated developmental education courses with a grade of C or higher regardless of program of study. In addition, it does not include **MAT 1033: Intermediate Algebra**, which, for many students, is a prerequisite course for MAC 1105.

Professional Elective Coursework Options

Minimum Credit Hours: 21

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours
<input type="checkbox"/>	BSC 2020C: Human Biology	4
<input type="checkbox"/>	BSC 2050: Biology of Environmental Systems	3
<input type="checkbox"/>	CHM 1025C: Introduction to General Chemistry	4
<input type="checkbox"/>	CHM 1032C: Principles of General Chemistry	4
<input type="checkbox"/>	MAC 1114: College Trigonometry	3
<input type="checkbox"/>	MAC 1140: Precalculus Algebra	4
<input type="checkbox"/>	MAC 1147: Precalculus Algebra and Trigonometry	5
<input type="checkbox"/>	MAC 2311: Calculus With Analytic Geometry I	4
<input type="checkbox"/>	MAC 2312: Calculus With Analytic Geometry II	4
<input type="checkbox"/>	MAC 2313: Calculus With Analytic Geometry III	4
<input type="checkbox"/>	MCB 2010C: Microbiology	4
<input type="checkbox"/>	PHY 2048C: Physics I With Calculus or PHY 2053C: General Physics I	4
<input type="checkbox"/>	PHY 2049C: Physics II With Calculus or PHY 2054C: General Physics II	4
<input type="checkbox"/>	STA 2023: Elementary Statistics	3