



Chemistry Department Course Offerings
March 30, 2023
For SCC and High School Counselors

Chemical Technology Certificate Program – This is the revised program that offers three certificates (see attachment)

Program Co-coordinators: Marisa Alviar-Agnew alviarm@scc.losrios.edu

& Tonya Atkins atkinst@scc.losrios.edu

Website: <https://scc.losrios.edu/academics/chemical-technology-program-details>

Videos: 1. <https://www.youtube.com/watch?v=OdvWnmt5DpM>

2. <https://youtu.be/ucn2ZfDv7Js>

Course Number/Title, Teaching Modality & Contact Person	Comments
CHEMT 201 (Careers in Chemical Technology), 2 units Contact Marisa Alviar-Agnew: alviarm@scc.losrios.edu <i>Lecture: asynchronous (Fully online)</i>	<ul style="list-style-type: none">Primarily for students who would like to obtain Chemical Technology Certificates 1 and/or 2.Prerequisite(s): NoneRecommended for students (i.e. first year or incoming freshman students) who would like to explore their academic or career paths.Recommended for high school students who are in the Dual Enrollment or Advanced Education Program who would like to explore their academic or career paths.
CHEMT 301 (Chemical Technology Supplemental Lab), 1 unit Contact Binh Dao: daob@scc.losrios.edu <i>Laboratory: in-person</i>	<ul style="list-style-type: none">Primarily for students who would like to obtain Chemical Technology Certificate 1.Prerequisite(s): NoneCorequisite: CHEM 300 (Beginning Chemistry)Recommended for students who took CHEM 300 labs online and would like to get more lab experience.Students show up once a week for a lab.
WEXP 498 (Internship), Variable units Contact Tonya Atkins: atkinst@scc.losrios.edu	<ul style="list-style-type: none">Primarily for students who would like to obtain Chemical Technology Certificates 1, 2 and 3.

<p><i>Laboratory:in-person</i></p>	<ul style="list-style-type: none"> ● <i>Prerequisite(s):</i> ● Stockroom internships with direct supervision for certificates 1 and 2. ● Industry internships with direct supervision for certificate 3.
<p>CHEMT 424 (Instrumentation), 2 units</p> <p><u>Contact</u> Tonya Atkins: atkinst@scc.losrios.edu</p> <p><i>Lecture:in-person</i> <i>Laboratory:in-person</i></p>	<ul style="list-style-type: none"> ● Primarily For students who would like to obtain Chemical Technology Certificate 3. ● <i>Prerequisite(s): CHEM 410 (Quantitative Analysis) or 420 (Organic Chemistry I) with a grade of "C" or better</i>



Chemistry Department Course Offerings

April 26, 2023

For SCC and High School Counselors

Department Chair : Joel Hwang hwangj@scc.losrios.edu

Website: <https://scc.losrios.edu/academics/programs-and-majors/chemistry>

Chemistry Courses

Course Number/Title, Teaching Modality & Contact Person	Comments
CHEM 300 (Beginning Chemistry), 5 units Contacts Laura Gillies-Doherty: gilliel@scc.losrios.edu	<ul style="list-style-type: none">• This course is recommended for students to get a solid foundation in various chemistry concepts prior to taking CHEM 400 (General Chemistry).• Prerequisite(s): Integrated Math 3, college algebra (e.g. MATH 100, MATH 300, MATH 333), or an equivalent or higher level math class with a "C" or higher.
CHEM 300 <i>Lecture: in-person</i> <i>Laboratory: in-person</i>	<ul style="list-style-type: none">• Recommended for students who prefer in-person instruction for both lecture and lab.• Recommended for students who are pursuing Chemical Technology certificate 1.• Students show up for lecture twice a week and once a week for lab
CHEM 300 <i>Lecture: synchronous – online</i> <i>"The lecture portion is live via Zoom during the specified days and time"</i> <div style="border: 1px solid black; padding: 5px;">Published on schedule as follows: LEC Mode: Partially Online - Day/Time: with specified day/time Room number is <i>not</i> provided in the class section details.</div>	<ul style="list-style-type: none">• Recommended for students who prefer in-person instruction for the lab and prefer a set weekly schedule for lecture.• Recommended for students who are pursuing Chemical Technology certificate 1.• Students show up once a week for a lab in-person and attend lectures online.

<p><i>Laboratory: in-person</i></p> <div style="border: 1px solid black; padding: 5px;"> <p>Published on schedule as follows: LAB Mode: Partially Online Day/Time: with specified day/time <u>Building & room number</u> is provided in the class section details.</p> </div>	
<p>CHEM 300</p> <p><i>Lecture: asynchronous – online</i> <i>“The lecture portion is fully online it is <u>not</u> live via Zoom”</i></p> <div style="border: 1px solid black; padding: 5px;"> <p>Published on schedule as follows: LEC Mode: Partially Online Day/Time: Partially Sync</p> </div> <p><i>Laboratory: in-person</i></p> <div style="border: 1px solid black; padding: 5px;"> <p>Published on schedule as follows: LAB Mode: Partially Online Day/Time: with specified day/time <u>Building & room number</u> is provided in the class section details.</p> </div>	<ul style="list-style-type: none"> ● Recommended for students who prefer in-person instruction for the lab and can manage their weekly schedule for completing lecture assignments. ● Recommended for students who are pursuing Chemical Technology certificate 1. ● Students show up once a week for a lab.
<p>CHEM 300</p> <p><i>Lecture and Laboratory: asynchronous (fully online)</i></p>	<ul style="list-style-type: none"> ● Recommended for students who can manage their weekly schedule and work independently in completing both lecture and lab assignments. ● The class requires six (6) hours of “in class” time (i.e. taking notes, watching lecture videos and tutorials) and 8-9 hours of study time per week similar to in-person lecture and laboratory classes. ● Students are required to purchase lab kits and perform actual experiments on their own
<p>CHEM 305 (Introduction to Chemistry), 5 units</p> <p>Contact Joel Hwang: hwangj@scc.losrios.edu</p>	<ul style="list-style-type: none"> ● This course is primarily designed for majors in the allied health fields (nursing, dental hygiene, physical therapy, etc.), natural resources, environmental technology, and physical education. ● Prerequisite(s): High school Integrated Math 1, OR college Beginning Algebra (e.g. MATH 100, MATH 300, MATH 333),

	<i>OR an equivalent or higher level math class with a "C" or higher.</i>
CHEM 305 <i>Lecture: in-person</i> <i>Laboratory: in-person</i>	<ul style="list-style-type: none"> • Recommended for students who prefer in-person instruction for both lecture and lab. • Students show up in person for lecture twice a week and once a week for lab
CHEM 305 <i>Lecture: synchronous – online</i> <i>"The lecture portion is live via Zoom during the specified days and time)"</i> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Published on schedule as follows: LEC Mode: Partially Online - Day/Time: with specified day/time Room number is <i>not</i> provided in the class section details. </div> <i>Laboratory: in-person</i> <div style="border: 1px solid black; padding: 5px;"> Published on schedule as follows: LAB Mode: Partially Online Day/Time: with specified day/time <u>Building & room number</u> is provided in the class section details. </div>	<ul style="list-style-type: none"> • Online synchronous lectures meet twice a week and in-person lab meets once a week.
CHEM 305 <i>Lecture: asynchronous – online</i> <i>"The lecture portion is fully online and is <u>not</u> live via Zoom"</i> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Published on schedule as follows: LEC Mode: Partially Online Day/Time: Partially Sync </div> <i>Laboratory: in-person</i> <div style="border: 1px solid black; padding: 5px;"> Published on schedule as follows: LAB Mode: Partially Online Day/Time: with specified day/time <u>Building & room number</u> is provided in the class section details. </div>	<ul style="list-style-type: none"> • Students watch pre-recorded lectures online. • In-person lab meets once a week.
CHEM 306 (Introduction to Organic and Biological Chemistry), 5 units <u>Contact</u>	<ul style="list-style-type: none"> • This course is the continuation of CHEM 305 and is primarily designed for majors in the allied health fields (nursing, dental hygiene, physical therapy, etc.), natural resources,

<p>Joel Hwang: hwangj@scc.losrios.edu</p>	<p>environmental technology, and physical education.</p> <ul style="list-style-type: none"> ● Prerequisite(s): CHEM 305 with a grade of "C" or better
<p>CHEM 306</p> <p><i>Lecture: in-person</i> <i>Laboratory: in-person</i></p>	<ul style="list-style-type: none"> ● Recommended for students who prefer in-person instruction for both lecture and lab. ● Students show up in person for lecture twice a week and once a week for lab
<p>CHEM 306</p> <p><i>Lecture: synchronous – online</i> <i>"The lecture portion is live via Zoom during the specified days and time"</i></p> <div data-bbox="123 709 675 915" style="border: 1px solid black; padding: 5px;"> <p>Published on schedule as follows: LEC Mode: Partially Online - Day/Time: with specified day/time Room number is <u>not</u> provided in the class section details.</p> </div> <p><i>Laboratory: in-person</i></p> <div data-bbox="123 974 675 1180" style="border: 1px solid black; padding: 5px;"> <p>Published on schedule as follows: LAB Mode: Partially Online Day/Time: with specified day/time <u>Building & room number</u> is provided in the class section details.</p> </div>	<ul style="list-style-type: none"> ● Online synchronous lectures meet twice a week and in-person lab meets once a week.
<p>CHEM 309 (Integrated General, Organic, and Biological Chemistry), 5 units</p> <p>Contact Laura Gillies-Doherty: gilliel@scc.losrios.edu</p> <p><i>Lecture: synchronous – online</i> <i>"The lecture portion is live via Zoom during the specified days and time"</i></p> <div data-bbox="123 1600 675 1806" style="border: 1px solid black; padding: 5px;"> <p>Published on schedule as follows: LEC Mode: Partially Online - Day/Time: with specified day/time Room number is <u>not</u> provided in the class section details.</p> </div>	<ul style="list-style-type: none"> ● This course is a one-semester intensive study of general, organic, and biological chemistry designed for nursing majors and other allied health science majors. ● Prerequisite(s): Integrated Math 3, college algebra (e.g. MATH 100, MATH 300, MATH 333), or an equivalent or higher level math class with a "C" or higher. ● Recommended for students who would prefer a chemistry course with an emphasis in applications in the health sciences that covers the fundamentals of multiple areas of chemistry (general, organic, biological) in one fast-paced semester.

<p><i>Laboratory: in-person</i></p> <div style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p>Published on schedule as follows: LAB Mode: Partially Online Day/Time: with specified day/time <u>Building & room number</u> is provided in the class section details.</p> </div>	<ul style="list-style-type: none"> ● Online synchronous lectures meet twice a week and in-person lab meets once a week.
<p>CHEM 330 (Adventures in Chemistry), 4 units</p> <p>Contact Marisa Alviar-Agnew: alviarm@scc.losrios.edu</p> <p><i>Lecture: asynchronous – online</i> <i>“The lecture portion is fully online it is <u>not</u> live via Zoom”</i></p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Published on schedule as follows: LEC Mode: Partially Online Day/Time: Asynchronous-no scheduled meeting</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Published on schedule as follows: LAB Mode: In-person Day/Time: with specified day/time <u>Building & room number</u> is provided in the class section details.</p> </div> <p><i>Laboratory: in-person</i></p>	<ul style="list-style-type: none"> ● This course is designed for non-science majors and meets GE requirements for a natural science course. ● Prerequisites: None ● Recommended for students who would like to learn about the fundamental concepts and contemporary applications of chemistry. ● Recommended for high school students who are in the Dual Enrollment or Advanced Education Program who would like to explore their academic or career paths. ● Students show up once a week for a lab.
<p>CHEM 333 (The Science of Coffee), 3 units</p> <p>Contact Bill Miller: millerw@scc.losrios.edu</p> <p><i>Lecture: asynchronous – fully online</i></p>	<ul style="list-style-type: none"> ● This course is designed for non-science majors and meets GE requirements for a natural science course. It has no lab - only lecture. ● Prerequisite(s): None ● Recommended for students who would like to learn about scientific principles while also learning about making coffee. ● Unfortunately, the equipment and supplies for this class cost approx. \$150. We are

	<p>working on a system of loaner supplies that would cut this to approx. \$50. Please have students ask the instructor about loaner materials.</p>
<p>CHEM 400 (General Chemistry I), 5 units</p> <p><u>Contacts</u> Tonya Atkins: atkinst@scc.losrios.edu</p>	<ul style="list-style-type: none"> • This course is designed for students majoring in biology, chemistry, pre-dentistry, pre-medicine, pre-pharmacy, and engineering. • Prerequisite(s): CHEM 300 with a grade of "C" or better completed within one year prior to enrollment in CHEM 400 or placement through the assessment process (ACS California Chemistry Diagnostic Exam) completed within one year prior to enrollment in CHEM 400 (students having taken CHEM 310, CHEM 305, or another chemistry course must complete the assessment process within one year prior to enrollment in CHEM 400) AND Intermediate Algebra, High School Integrated Math 3, or equivalent with a "C" or better. • Important: students need to be advised to complete introductory chemistry review before enrolling in the course. <p>https://scc.losrios.edu/academics/programs-and-majors/chemistry</p> <ul style="list-style-type: none"> • Scroll down to: General Chemistry I (CHEM 400) Preparatory Review
<p>CHEM 400</p> <p><i>Lecture: in-person</i> <i>Discussion: in-person</i> <i>Lab : in-person</i> *Lab includes both a dry lab (discussion) as well as a wet lab.</p>	<ul style="list-style-type: none"> • Recommended for students who prefer in-person instruction for lecture, discussion, and lab • Students attend lecture twice a week, discussion once a week and lab once a week.
<p>CHEM 400</p> <p><i>Lecture: asynchronous – online</i> <i>Discussion: synchronous – online</i> <i>Lab: in-person</i></p>	<ul style="list-style-type: none"> • Recommended for students who prefer in-person instruction for the lab and can manage their weekly schedule for completing lecture and discussion assignments.

<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Published on schedule as follows: LAB Mode*: Partially Online Day/Time: with specified day/time Building & room number is provided in the class section details.</p> </div> <p>*Lab includes both a dry lab (discussion) as well as a wet lab.</p>	<ul style="list-style-type: none"> • Students attend discussion once a week and lab once a week.
<p>CHEM 401 (General Chemistry II), 5 units</p> <p>Contact Dena Chubbic: chubbid@scc.losrios.edu</p>	<ul style="list-style-type: none"> • This course is a continuation of CHEM 400. • Prerequisite(s):
<p>CHEM 410 (Quantitative Analysis), 5 units</p> <p>Contact Gerardo Ochoa: ochoag@scc.losrios.edu</p> <p><i>Lecture: in-person</i> <i>Laboratory: in-person</i></p>	<ul style="list-style-type: none"> • This course is designed for science majors who would like to pursue a career in chemistry, biochemistry, chemical engineering and other hard science-oriented majors. • Designed for students who plan on continuing their science education at a 4-year institution. • Prerequisite(s): Chemistry 401 with grade "C" or better or concurrent enrollment with permission from instructor. • Students attend an in-person lab twice a week.
<p>CHEM 420 (Organic Chemistry I), 5 units</p> <p>Contact Fall faculty contact: Ling Huang: Ling.huang@scc.losrios.edu Joel Hwang: Hwangj@scc.losrios.edu</p> <p>Spring faculty Contact: Binh Dao: Daob@scc.losrios.edu</p> <p><i>Lecture: in-person</i> <i>Laboratory: in-person</i></p>	<ul style="list-style-type: none"> • This course is designed to prepare students majoring in chemistry or chemical engineering for transfer into 4-year institutions. • Prerequisite(s): Prerequisite(s): CHEM 401 with a grade of "C" or better. • Prepares students for entrance into professional schools in the fields of medicine, pharmacy, or dentistry. • Students attend in-person lab twice a week.
<p>CHEM 421 (Organic Chemistry II)</p> <p>Fall Contact: Binh Dao: daob@scc.losrios.edu Spring Contact: Ling Huang: Ling.huang@scc.losrios.edu</p>	<ul style="list-style-type: none"> • This course is designed to prepare students majoring in chemistry or chemical engineering for transfer into 4-year institution.

<p><i>Lecture: in-person</i> <i>Laboratory: in-person</i></p>	<ul style="list-style-type: none"> ● Prepares students for entrance into professional schools in the fields of medicine, pharmacy, or dentistry. ● This is a continuation of CHEM420. ● <i>Prerequisite(s): CHEM 420 with a grade of "C" or better</i> ● Students attend in-person lab twice a week.
<p>CHEM 423 (Organic Chemistry – Short Survey), 5 units</p> <p><u>Contact</u> Wondimagegn Shewa: shewaw@scc.losrios.edu</p> <p>Lecture: In-Person</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Published on schedule as follows: LEC Mode: Fully In - Person Day/Time: with specified day/time Room number is provided in the class section details.</p> </div> <p>Lab: In-Person</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Published on schedule as follows: Lab Mode: Fully In - Person Day/Time: with specified day/time Room number is provided in the class section details.</p> </div>	<ul style="list-style-type: none"> ● This course is designed primarily for students majoring in the life sciences, nutrition and dietetics, and related fields. This course is not recommended for students majoring in chemistry, chemical engineering, medicine, dentistry, pharmacy, or chiropractics. ● Students attend in-person lab once a week. ● <i>Prerequisite(s): CHEM 401 with a grade of "C" or better.</i>