COURSE DESCRIPTION

This is a one-semester, 2-credit course that provides a basic organic laboratory experience. It includes techniques of isolating and handling organic substances, as well as biological materials. This is a hybrid lab course. Lecture will be delivered asynchronously online. Students will perform six in-person lab experiments, and will actively take notes for three asynchronous visual lab experiments.

Prerequisite: CHE 134 or 154. Pre- or Co-requisite: CHE 321 or 331.

Lectures (section 30): Pre-recorded videos that will be posted on Blackboard.
Section L11: Tue: 8:30am-12:30pm, Chemistry 342
Section L12: Tue: 1:00-5:00pm, Chemistry 342
Section L13: Thu: 8:30am-12:30pm, Chemistry 342
Section L14: Thu: 1:00-5:00pm, Chemistry 342

Instructor: Dr. Zachary E. Katsamanis
Email: zachary.katsamanis@stonybrook.edu
Office hours by appointment

REQUIRED MATERIALS

Important note: you must be prepared with the required material on your first day of lab. We will conduct the first experiment on that day.

- **CHE 327 Organic Chemistry Laboratory Manual Summer 2021** This will be purchased electronically from LabArchives, which comes as a bundle of an Electronic Laboratory Notebook (ELN). To sign up for the ELN, use the following URL: https://mynotebook.labarchives.com/self_signup/MjM2NDQuNHwwLzE4MTg4L0NvdXJzZS8xODk1NzI5MjI5IDwMDiwLjM5OTk5OTk5NA==

- A web enabled device (not required but strongly recommended). You will be viewing the procedures and recording your observations using the ELN, which you will access online. Based on prior semesters, we observed that most students brought their laptop or pad. The stockroom will provide equipment if you need it.

- Safety goggles that are in compliance with the latest Z87.1 Standard for Occupational and Educational Eye and Face Protection established by ANSI. Be sure you purchase chemical splash goggles and not a less effective kind of eye protection.

- **Heavy-duty gloves.** Lab Safety Supply Neoprene Gloves are recommended as they resist a broad range of organic and inorganic chemicals. Playtex Living Gloves are also satisfactory and probably the cheapest available. They can be found at a grocery store or home improvement store.

- **Nitrile gloves (not required but recommended).** Disposable gloves to keep your hands clean when conducting experiments. They can be found at any superstore or home improvement store.

- **Combination padlock.** This will be used to lock your lab drawer. A padlock requiring a key to open it will not be accepted.

- **Appropriate clothing for lab.** You should wear clothing and shoes that will cover your entire body. You will be provided a lab coat during check-in, which you will be required to wear during lab. The specifics are covered in the ‘safety’ lecture video. Failure to adhere to the personal protection safety rules will result in an automatic absence and/or grade penalty.
- **Appropriate face masks.** You will always be required to wear a face mask. Any student not in compliance will be asked to leave the lab. For your own safety, you should wear a surgical mask or N95 mask. Cloth masks are not acceptable in our lab.

**TECHNICAL REQUIREMENTS**

This course uses Blackboard for the facilitation of communication between faculty and students, submission of some assignments, and posting of grades and feedback. The Blackboard course site can be accessed at [https://blackboard.stonybrook.edu](https://blackboard.stonybrook.edu). If you are unsure of your NetID, visit [https://it.stonybrook.edu/help/kb/finding-your-netid-and-password](https://it.stonybrook.edu/help/kb/finding-your-netid-and-password) for more information. You are responsible for having a reliable computer and Internet connection throughout the term.

The following list details a minimum recommended computer set-up and the software packages you will need to have access to, and be able to use:

- PC with Windows 10 or higher (we recommend a 3-year Warranty)
- Macintosh with OS 10.11 or higher (we recommend a 3-year Warranty)
- Latest version of Chrome or Firefox; Mac users may use Chrome or Firefox. (A complete list of supported browsers and operating systems can be found on the My Institution page when you log in to Blackboard.)
- High speed internet connection
- Headphones/earbuds and a microphone
- **Webcam (required for the two proctored theory quizzes)**
- Ability to download and install free software applications and plug-ins (note: you must have administrator access to install applications and plug-ins).

**Technical Assistance:**

If you need technical assistance at any time during the course or to report a problem with Blackboard you can:

- Phone: 631-632-9800 (client support, Wi-Fi, software and hardware)
- Submit a help request ticket: [https://it.stonybrook.edu/services/itsm](https://it.stonybrook.edu/services/itsm)
- If you are on campus, visit the Walk-Up Tech Support Station in the Educational Communications Center (ECC) building.

**COURSE STRUCTURE**

Due to social distancing requirements, our lab can only support 28 students per lab period. As a result, each lab section (Tuesday or Thursday) will come to perform in-person experiments once per week. See the schedule for details. You will be required to physically come in a total of six times.

Prior to each experiment, you will be required to read sections of the lab manual, view one or more pre-recorded lecture videos on Blackboard (Echo) as well as complete an online pre-lab quiz. Each pre-lab quiz will become available when the corresponding lecture videos are posted, and you will have more than one day to complete it (see schedule for details). You should also thoroughly read the experimental procedure on your ELN. You will then come in on the day your group is scheduled to perform the experiment.

For each visual lab, the preparation is the same (assigned reading from lab manual sections, lecture videos, prelab quiz and read procedure). A pre-recorded video of a TA performing the lab will become available on a Friday and close by Monday morning. It is your responsibility to view the lab experiment and submit your lab notes within the given period.

Two online theory quizzes will also be administered. You will be required to log into Zoom (with camera turned on showing your entire face) while taking each quiz.

Details for each course component is described in its corresponding section.
You will be graded relative to other students. We will not have a curve, but we will assign grades based on class averages. The total amount of possible points in this course is 500.

1. **Pre-lab Quizzes (50 points)**

Each experiment will be preceded by a pre-lab quiz (administered on Blackboard) that will be based on both the content discussed in the lecture videos as well as the specific experimental procedure. The first quiz will primarily be based on safety. The posting and due dates are shown in the schedule at the end of this syllabus. Each quiz will close at 7:00am on its due date. Each quiz will be worth 5 points and one will be worth 10 points. The maximum total points earned will be 55, but only the first 50 points will count towards your overall course total. **There are no makeups for missed quizzes.** You should plan to complete the quizzes sooner than later. We will not accept excuses for technical issues that arise if a student attempts to complete the quiz close to the deadline.

2. **Lab Experimental Reports, Results and Products (180 points)**

Each experiment (in-person and visual) will be accompanied with a report containing a few questions that will be completed on LabArchives. Each experiment will be worth a total of 20 points with the final Lidocaine lab worth 40 points. The reports on your ELN will be submitted online before the due date listed in the schedule. Some experiments will also involve submitting a product (or TLC plate) for evaluation, which will be part of the 20 (or 40) report points. Products and TLC results would always be submitted before the end of your lab period on the due date listed in the schedule.

If you are in a situation where you must decide between greater purity vs. greater yield of your product, be aware that **purity will be worth more.** A special case is **getting a refill from the stockroom: a zero or low yield grade will be assigned.** Sometimes the choice is yours as to whether to proceed with what you have or to start over. You might decide to take the yield penalty if the refill gives you a chance to obtain a significantly purer product.

No grade will be dropped. Instead, the value of your lowest report grade (out of the first 7 reports) will be adjusted at the end of the course.

3. **Notebook Quizzes (140 points)**

Your note-taking skills will be mainly assessed by three notebook quizzes, each containing questions regarding your notebook record. More detail will be provided in a lecture video. A notebook quiz sample will also be provided on Blackboard. **Notebook entries must be submitted before your lab period ends or a grade penalty will be applied.** In some cases, it may affect your notebook quiz.

4. **Theory Quizzes (100 points)**

There will be two one-hour long quizzes on theory and practice given at 12:00 pm on Friday, June 11 and on Friday, June 25. **A cumulative makeup theory quiz will be offered at 1:00pm on Friday, July 2 if you miss one of the theory quizzes with an acceptable excuse.** Missing both theory quizzes will result in an Incomplete.

5. **Technique (30 points)**

You should endeavor to prepare thoroughly, work independently, show concern for safety, show consideration for others, and display good laboratory practices. You are required to clean up your bench area before you leave the lab. Fifteen minutes before the end of each lab session, all lab work must stop in order to allow time for cleanup. **A document detailing the breakdown of the technique score will be posted on Blackboard.**
6. Penalties

You can have points deducted from your overall course total for certain penalties: not having safety goggles or heavy-duty gloves, arriving with inappropriate clothing, forgetting to bring a padlock or forgetting its combination more than once, and late notebook entries.

RESPONSIBILITIES

Each student is responsible for knowing all procedures and course expectations detailed: in this document, the Lab Manual (on LabArchives), on Blackboard or those announced in the online lectures or during lab. In order to receive the most recent email notice and/or announcement through Blackboard, you must check your stonybrook.edu email address.

There will usually be two types of lectures to watch before each lab: one will describe a laboratory technique and another discussing the specifics of the experiment that will be conducted. Failure to view the online lectures is not an excuse for not knowing what was presented or announced. It is your responsibility to find out about all course information.

SUMMER SESSION COURSE POLICIES ON ABSENCE AND LATENESS

Due to the condensed schedule of the summer session, some changes in the course structure and policies were made from the normal CHE 327 course provided during the fall and spring semesters.

You are required to view every online lecture video and attend every lab session. There will be no guaranteed makeup lab sessions for missed labs. Missing a lab experiment will require an acceptable excuse or family emergency. If you miss a lab session once during the semester, it will result in an “Incomplete” grade. You can then perform a makeup lab experiment at the end of the fall semester or winter session, depending on availability. In unusual circumstances, permission for additional accommodation may be granted with official written documentation of the reason for the absence, and approval by the instructor.

You should strive to arrive to your lab session on time. You will be responsible for any announcements that are made before each lab session. Arriving to lab 40 minutes after your scheduled lab time will result in an automatic absence, and you will NOT be allowed to perform the lab experiment that day.

Reports and quizzes are typically due at 7:00am (some at noon). No report/quiz will be accepted after that time. Note that reports/quizzes may be due on days that you do not come into lab. Submission of notes from online experiments, quizzes, and reports should be submitted on time. It is strongly recommended you do not wait till the last hour to submit work to avoid any possible technical issues that may occur.

STOCKROOM POLICIES

You will check-in glassware and equipment, which you will keep in an assigned drawer. At the end of the semester, the drawer and its contents should be clean and in the condition you received them (other than expendables such as litmus paper). Failing to check out before the course ends will result in a grade penalty.

You are responsible for reading the ‘Check-in Procedure’ file that is posted under Documents on Blackboard, before arriving on the first day of the summer session. At check-in, you will be required to supply the stockroom with the combination for your padlock. The stockroom reserves the right to open your drawer anytime during the semester.

Equipment you borrow should be returned to the stockroom as soon as practical during the same lab period. Keep in mind that the stockroom closes fifteen minutes before the scheduled end of the lab period. If the stockroom is closed so that you cannot return borrowed equipment, you should lock it in your drawer and return it the next period. If another student needs the equipment, the stockroom staff would have to retrieve it.
**COURSE SCHEDULE**

Note: The first experiment will be conducted on your first day of lab. You MUST be prepared with the required material to perform an experiment that day.

A summary in calendar format will be posted on Blackboard.

<table>
<thead>
<tr>
<th>Lecture videos and reading assignments (videos that should be viewed and reading from Lab Manual Sections, prior to each prelab quiz and experiment)</th>
<th>Prelab quizzes (Each quiz due by 7:00am of each date)</th>
<th>Experiment (procedures on LabArchives)</th>
<th>Due (reports, products and notebook quizzes)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Week 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Introduction to CHE 327 <em>(Lab Manual Introduction, Lab Equipment, Lab Policies)</em></td>
<td><strong>Due by May 25</strong> PLQ1 – Intro and safety (posted prior to semester start) PLQ2 – Distillation lab (posted prior to semester start)</td>
<td><strong>May 25 &amp; May 27</strong> Check-in Simple distillation</td>
<td></td>
</tr>
<tr>
<td>2. CHE 327 LabArchives tutorial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Safety</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Notebook tips</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Distillation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Distillation of acetone/butanol <em>Ch. 6 (remaining reading assignments found in “Techniques”)</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Week 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Large-scale crystallization</td>
<td><strong>Due by June 1</strong> PLQ3 - Crystallization lab (posted May 28 at 12:00pm)</td>
<td><strong>June 1 &amp; 3</strong> Crystallization of benzoic acid</td>
<td><strong>Due by June 1</strong> Simple distillation report - 7:00am</td>
</tr>
<tr>
<td>8. Benzoic acid crystallization <em>Ch. 7, excluding 7.4 and 7.5</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Week 3</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. TLC</td>
<td><strong>Due by June 4</strong> PLQ4 – Analgesics lab (posted May 31 at 12:00pm)</td>
<td><strong>VISUAL LAB</strong> Identification of analgesics 6/4 (noon) – 6/7 (noon)</td>
<td><strong>Due by June 4</strong> Notebook quiz 1 12:00pm (posted on 6/3 at 5:30pm)</td>
</tr>
<tr>
<td>10. Identification of analgesics 11.1-11.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 3</td>
<td>Due by June 8</td>
<td>June 8 &amp; 10</td>
<td>June 8 &amp; 10</td>
</tr>
<tr>
<td>--------</td>
<td>---------------</td>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>11. Extraction of trimyristin from nutmeg</td>
<td>PLQ5 – Trimyristin lab (posted June 4 at 12:00pm)</td>
<td>Complete crystallization lab</td>
<td>Benzoic acid product (in lab)</td>
</tr>
<tr>
<td>12. Melting point</td>
<td></td>
<td>Trimyristin from nutmeg</td>
<td></td>
</tr>
<tr>
<td><em>sections 7.4, 8.1-8.3, 9.5</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. Column chromatography</td>
<td>Due by June 11</td>
<td>VISUAL LAB</td>
<td>Due by June 10</td>
</tr>
<tr>
<td>14. Isolation of β-carotene</td>
<td>PLQ6 – β-carotene lab (posted June 7 at 12:00pm)</td>
<td>Isolation of β-carotene 6/11 (1:00pm) – 6/14 (noon)</td>
<td>Analgesics report 7:00am</td>
</tr>
<tr>
<td><em>sections 9.4 and 11.3</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Theory Quiz 1 (June 11 at 12:00pm)</strong></td>
<td><strong>Week 4</strong></td>
<td><strong>Due by June 15</strong></td>
<td><strong>Due by June 15</strong></td>
</tr>
<tr>
<td>15. Isomerization of dimethyl maleate</td>
<td>PLQ7 – Isomerization lab (posted June 11 at 1:00pm)</td>
<td>Complete trimyristin lab</td>
<td>Crystallization report – 7:00am</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Isomerization of dimethyl maleate</td>
<td>June 15 &amp; 17</td>
</tr>
<tr>
<td>16. Extractions</td>
<td>Due by June 18</td>
<td>VISUAL LAB</td>
<td>June 15 &amp; 17</td>
</tr>
<tr>
<td>17. Ester synthesis &amp; purification</td>
<td>PLQ8 (10 pts) – Ester lab (posted June 14 at 12:00pm)</td>
<td>Synthesis of a fragrant ester 6/18 (noon) – 6/21 (noon)</td>
<td>Trymyristin product (in lab)</td>
</tr>
<tr>
<td>18. Infrared spectroscopy</td>
<td></td>
<td></td>
<td>TLC plate from part B (in lab)</td>
</tr>
<tr>
<td>19. Gas chromatography</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20. NMR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.1-9.3, Ch. 10, 11.4, Ch. 12, Ch. 13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Week 5</strong></td>
<td><strong>Due by June 22</strong></td>
<td><strong>Due by June 22</strong></td>
<td><strong>Due by June 22</strong></td>
</tr>
<tr>
<td>21. Lidocaine synthesis</td>
<td>PLQ9 – Lidocaine synthesis lab (posted June 18 at 12:00pm)</td>
<td>Lidocaine synthesis</td>
<td>Trymyristin and Isomerization reports – 7:00am</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Due by June 24</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ester report 7:00am</td>
</tr>
</tbody>
</table>
**Theory Quiz 2 (June 25 at 12:00pm)** – based on the isomerization, β-carotene, ester and lidocaine experiments, along with associated lecture videos and safety practices

<table>
<thead>
<tr>
<th>Week 6</th>
<th>22. Lidocaine isolation</th>
<th><strong>Due by June 29</strong></th>
<th><strong>June 29 &amp; July 1</strong></th>
<th><strong>June 29 &amp; July 1</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>23. Check out and end-of-course announcements</td>
<td>PLQ10 – Lidocaine isolation lab (posted June 25 at 1:00pm)</td>
<td>Lidocaine isolation</td>
<td>Lidocaine product (in lab)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check-out</td>
<td>Due by July 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lidocaine report 12:00pm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Notebook quiz 3 12:00pm (posted on 7/1 at 5:30pm)</td>
</tr>
</tbody>
</table>

**Make-up Theory Quiz (July 2 at 1:00pm)** – cumulative theory quiz based on all content in the course. This quiz is only for those that missed one theory quiz with an acceptable excuse.

---

**LEARNING OBJECTIVES IN ORGANIC CHEMISTRY LAB**

Three fundamental learning objectives of organic chemistry lab are:

1. **Isolation and purification of organic compounds.** Making compounds through reactions is a fundamental aspect in organic chemistry. Conducting most organic chemistry reactions is the easy part. Isolating the product from all of the by-products and solvents of a reaction is usually the most challenging task. The objective is for students to learn the different techniques on how to isolate pure organic compounds in relatively high yield.

   *This learning objective is evaluated by assessing the purity and yield (amount) of the products submitted by students, as part of each lab report.*

2. **Safe handling and disposal of organic compounds.** Most organic compounds present potential health and fire hazards. It is vital for students to learn how to work with these chemicals using proper techniques that avoid or minimize unnecessary exposure of these chemicals to themselves, their peers, and the environment.

   *This learning objective is evaluated by the teaching assistant observations that will result in a technique grade.*

3. **Keeping proper scientific record.** This is the most important learning objective. Most of the students taking this course will go on to have a career in a scientific field, where they will have to record accurate data they obtain without allowing their own analysis to influence what gets recorded. Students will learn the skill of recording observations.

   *This learning objective is evaluated by notebook quizzes that assess what they have recorded in their electronic lab notebooks. This objective is also evaluated somewhat by the teaching assistant observations that will result in a technique grade.*
UNIVERSITY POLICIES

Student Accessibility Support Center Statement:

If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact the Student Accessibility Support Center, 128 ECC Building, (631) 632-6748, or at sasc@stonybrook.edu. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and the Student Accessibility Support Center. For procedures and information go to the following website: https://ehs.stonybrook.edu/programs/fire-safety/emergency-evacuation/evacuation-guide-people-physical-disabilities and search Fire Safety and Evacuation and Disabilities.

Academic Integrity Statement:

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty is required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty please refer to the academic judiciary website at http://www.stonybrook.edu/commcms/academic_integrity/index.html

Important Note: Any form of academic dishonesty, including cheating and plagiarism, will be reported to the Academic Judiciary.

Critical Incident Management:

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of University Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures. Further information about most academic matters can be found in the Undergraduate Bulletin, the Undergraduate Class Schedule, and the Faculty-Employee Handbook.

COURSE POLICIES

Understand When You May Drop This Course:

It is the student's responsibility to understand when they need to consider withdrawing from a course. Refer to the Stony Brook Academic Schedule for dates and deadlines for registration: http://www.stonybrook.edu/commcms/registrar/calendars/academic_calendars.

- Undergraduate Course Load and Course Withdrawal Policy
- Graduate Course Changes Policy

Course Materials and Copyright Statement:

Course material accessed from Blackboard, LabArchives, or a Stony Brook Course website is for the exclusive use of students who are currently enrolled in the course. Content from these systems cannot be reused or distributed without written permission of the instructor and/or the copyright holder. Duplication of materials protected by copyright, without permission of the copyright holder is a violation of the Federal copyright law, as well as a violation of Stony Brook's Academic Integrity.
Online Communication Guidelines and Learning Resources:

Maintain professional conduct both in the lab classroom and online. The classroom is a professional environment where academic debate and learning take place. We will make every effort to make this environment safe for you to share your opinions, ideas, and beliefs. In return, you are expected to respect the opinions, ideas, and beliefs of other students—both in the face-to-face classroom and online communication. Students have the right and privilege to learn in the class, free from harassment and disruption. The course follows the standards set in the Student Code of Conduct, and students are subject to disciplinary action for violation of that code. If your behavior does not follow the course etiquette standards stated below, the grade you receive for a posting may suffer. We reserve the right to remove any discussion messages that display inappropriate language or content.

**STUDENT RESOURCES**

Academic and Major Advising (undergraduate only): Have questions about choosing the right course? Contact an advisor today. Phone and emails vary-please see website for additional contact information; website: [https://www.stonybrook.edu/for-students/academic-advising/](https://www.stonybrook.edu/for-students/academic-advising/)

Academic Success and Tutoring Center (undergraduate only): [https://www.stonybrook.edu/tutoring/](https://www.stonybrook.edu/tutoring/)

Amazon @ Stony Brook: Order your books before classes begin. Phone: 631-632-9828; email: Bookstore_Liaison@stonybrook.edu; website: [http://www.stonybrook.edu/bookstore/](http://www.stonybrook.edu/bookstore/)

Bursar: For help with billing and payment. Phone: 631-632-9316; email: bursar@stonybrook.edu; website: [http://www.stonybrook.edu/bursar/](http://www.stonybrook.edu/bursar/)

Career Center: The Career Center’s mission is to support the academic mission of Stony Brook University by educating students about the career decision-making process, helping them plan and attain their career goals, and assisting with their smooth transition to the workplace or further education. Phone: 631-632-6810; email: sbucareercenter@stonybrook.edu; website: [http://www.stonybrook.edu/career-center/](http://www.stonybrook.edu/career-center/)

Counseling and Psychological Services: CAPS staff are available by phone, day or night. [http://studentaffairs.stonybrook.edu/caps/](http://studentaffairs.stonybrook.edu/caps/)

Ombuds Office: The Stony Brook University Ombuds Office provides an alternative channel for confidential, impartial, independent and informal dispute resolution services for the entire University community. We provide a safe place to voice your concerns and explore options for productive conflict management and resolution. The Ombuds Office is a source of confidential advice and information about University policies and procedures and helps individuals and groups address university-related conflicts and concerns. [http://www.stonybrook.edu/ombuds/](http://www.stonybrook.edu/ombuds/)

Registrar: Having a registration issue? Let them know. Phone: 631-632-6175; email: registrar_office@stonybrook.edu; [http://www.stonybrook.edu/registrar/](http://www.stonybrook.edu/registrar/)

SBU Libraries: access to and help in using databases, ebooks, and other sources for your research.

- Research Guides and Tutorials: [http://guides.library.stonybrook.edu/](http://guides.library.stonybrook.edu/)
- Getting Help: [https://library.stonybrook.edu/research/ask-a-librarian/](https://library.stonybrook.edu/research/ask-a-librarian/)

Support for Online Learning: [https://www.stonybrook.edu/online/](https://www.stonybrook.edu/online/)