

Course Number & Title – SCI171L Scientific Disciplines (Lab)

Department – AUD – Arts & Sciences

Contacting Your Professor

1. To contact your professor, select “Inbox” from the global navigation bar on the left-hand side of your screen. After selecting “Inbox,” click the pencil in the top right of your screen to begin your message. Type in your professor's name and your message before sending.

Delivery – Online

Course Description – This course provides students the opportunity to practice scientific inquiry through participation in laboratory-style experiments. The intent is to support the knowledge and concepts gained in a discipline of science course. Thus, the laboratory course has a science core course prerequisite or should be taken concurrently.

Course Prerequisite(s) – None

Student Learning Outcomes – As a result of this course the student will do the following:

1. Learn and practice using the scientific method of problem-solving, individually and collaboratively.
2. Identify a hypothesis and analyze results acquired through experimentation.
3. Communicate scientific conclusions through a written laboratory report.

Course Requirements

1. *Textbook(s)* – Book information and a price comparison tool can be found at <https://www.lbcbookstore.com/>. Click on “Compare Textbook Prices” in the middle of the page. Here you will find the bookstore’s prices, digital options, plus Amazon and other online retailers.
 - a. A laboratory kit will be provided. The links to instructions for the lab kits and virtual labs will be found in Canvas.
2. *Materials*
 - a. Materials used for laboratory experiments will be shipped to the student. The address LBC | Capital has in the student record will be used. If you will be at a different address, please inform the professor immediately.

3. *Assignments*

- a. **Discussion Forums (10%):** Throughout this lab course, you will complete a number of discussion forums in which you will reflect on the concepts and implications you've drawn from your labs. These discussions are meant to build and enhance the learning community as we interact with each other as a class. Because this course is self-paced, however, reply posts will not be required. Specific instructions will be given in the course. (SLO 2)
- b. **Laboratory Reports (90%):** Throughout the course, you will complete laboratory exercises either as physical kits or virtual labs in order to practice the methodologies we will discuss and explore in the accompanying science course. These laboratory exercises will allow you to apply scientific logic and reasoning to real-world scenarios and experiments. You will collect data, analyze results, and write responses to questions and your conclusions. (SLOs 1–3)

4. *Exams and Quizzes*

- a. There are no exams or quizzes in this course.

5. *Extra Credit*

- a. There are no extra credit opportunities for this course.

Course Procedures

- 1. *Course Practices* – This online course uses hands-on and virtual lab exercises. Each student is expected to complete lab work without outside assistance. You may interact with the instructor and fellow students about the lab content, the learning experience, and the relationships between the material and one's experience.
- 2. *Participation Policy* – There is a higher degree of independence for this course, so students are responsible for tracking their progress. However, there will be deadlines for discussions and lab assignments that must be met.
- 3. *Grading Policy, Rating Scale, Use of Rubrics, etc.*

<i>Excellent</i>	A	=	94–100		B-	=	80–83		D+	=	67–69
	A-	=	90–93		C+	=	77–79	<i>Passing</i>	D	=	64–66
	B+	=	87–89	<i>Average</i>	C	=	74–76		D-	=	60–63
<i>Good</i>	B	=	84–86		C-	=	70–73	<i>Failure</i>	F	=	0–59

The weight of each assignment in relation to your final grade is allocated in the following grading categories:

Discussion Forums	10%
Laboratory Reports	90%

- 4. *Late Assignment Policy* – A letter grade deduction will be assessed for each day late on the laboratory assignments. Failure to complete **all** laboratory exercises can result in failure of course, despite overall course grade, at discretion of the professor.
- 5. *Make-up Policy* – There is no make-up policy for this course.

6. *Ally Center Statement* – The Ally Center is LBC | Capital’s hub for academic services, resources, and accessibility. The academic services include disability services, writing services, and academic mentoring services and are available at no additional cost. To schedule an online or on-campus appointment, or for information regarding resources, locations, and hours of operation, visit lbc.edu/ally.

- a. *Disability Services* – LBC | Capital is committed to creating an educational environment that is inclusive and accessible, in compliance with the guidelines of the ADA and Section 504 of the Rehabilitation Act. Students choosing to disclose a disability must contact the Disability Services Office to discuss reasonable accommodations.

After speaking with the student and reviewing documentation, reasonable accommodations will be determined. It is in the student’s best interest to contact the Disability Services Office as early as possible prior to each new term since professors cannot provide accommodations without verification from the DSO and accommodations cannot be applied retroactively. More information and disclosure forms are available at lbc.edu/ally.

Please note: Students should register with the Disability Services Office each term for which accommodations are desired; accommodations from the prior semester are not automatically carried over.

The Disability Services Office can be reached at 717.560.8200 ext. 5383 or DSO@lbc.edu. The confidential fax line is 717.560.8261.

- b. *Writing Services* – The Writing Center is available to help any LBC | Capital student with writing assignments from any course. Students can schedule a one-on-one appointment with professional personnel or peer mentors at any point in the writing process. Writing Services include: assistance in brainstorming and outlining, development of ideas, critique of partial or full drafts, and/or review of formatting and citations. Appointments are available both on campus and online. A variety of writing resources are available at lbc.edu/ally.

Writing Services can be reached at 717.560.8200 ext. 5389 or by email at WritingCenter@lbc.edu.

- c. *Academic Mentoring Services* – Academic Mentoring Services (AMS) provides academic services at no cost to any current undergraduate LBC student. Professional personnel and peer mentors come alongside students to assist with major projects, time management, review of course content, test-taking skills, and study strategies. A variety of academic resources are available at lbc.edu/ally.

Students may make academic mentoring appointments by phone at 717.560.8200 ext. 5389 or by email at AMS@lbc.edu.

d. *Contact Information*

Location	Email	Phone
Lancaster	AllyCenter@lbc.edu	717.569.7071 ext. 5389
Philadelphia	AllyPhilly@lbc.edu	215.329.5400 ext. 5753
Washington D.C.	AllyDC@lbc.edu	301.552.1400 ext. 5806
Online	AllyCenter@lbc.edu	717.569.7071 ext. 5389

7. *Academic Integrity Statement* – As followers of Christ, we need to be fully committed to honesty and truthfulness in all aspects of our lives, including in our academic lives. Therefore, academic dishonesty will not be tolerated in any way. Students are responsible to familiarize themselves with LBC’s Academic Integrity Policy and adhere to it. It is located in the Student Handbook.
8. *Statement on Self-care* – College in general is a rich and fulfilling experience, full of opportunities for students. Along with this abundance of opportunities comes the challenge of maintaining a healthy life balance characterized by productive tension, a sensible schedule, and time for rest. Productive tension, at times, can be compounded by unexpected life challenges, causing unproductive levels of stress. This can lead to feelings of sadness, increased anxiety, and an overall lack of focus. For this reason, LBC | Capital strongly encourages students to care for themselves physically, emotionally, and spiritually during each academic term and throughout their journeys. Everyone benefits by support in times of struggle so students are also encouraged to seek help promptly by talking with professors or other College staff about life challenges as related to academic performance and to seek advice regarding available supports inside and outside of the LBC | Capital community.

Course Resources

1. *Technology Difficulties* – The Help Desk is available to help you with computer and technology problems and questions. Call 717.560.8200 ext. 4357 (HELP), email help@lbc.edu, or visit <https://www.lbc.edu/helpdesk>.
2. *Library Resources* – The library subscribes to numerous databases to provide access to scholarly and peer-reviewed journal articles, eBooks, newspapers, magazines, and much more. Online resources are accessible anywhere on campus or remotely 24/7 using your LBC username and password. To access these resources, go to <https://www.lbc.edu/library>. The library website also includes links for students to request research assistance:
 - ASK A LIBRARIAN is for information from an LBC librarian within 24 hours (Monday–Friday).
 - LIVE CHAT is for immediate assistance—usually from a non-LBC librarian.
 - REQUEST RESEARCH CONSULTATION is for arranging an appointment with a librarian, either in-person or online.
3. *Bibliography* – None
4. *Extra Resources* – None