

BMB 101: Frontiers in Biochemistry, Fall 2021

Wednesdays 3:00 – 3:50 PM

138 Chemistry Building

Instructor and Course Coordinator

Dr. Sophia Lunt, Associate Professor. Email: sophia@msu.edu (must include "BMB101" in the subject line)

Teaching Assistant (TA)

Tamia Waller, Graduate Student. Email: wallerata@msu.edu (must include "BMB101" in the subject line)

Please direct all questions about homework and grades to your Tamia

Course Objectives

A major in Biochemistry will provide you with an understanding of fundamental concepts in the field and prepare you for diverse career paths. Biochemistry is the study of chemical processes that occur in living organisms and impacts many fields including medicine, biotechnology, pharmacology, agriculture and environmental science. Successful completion of your degree will provide excellent preparation for industry, professional schools, graduate schools, and many other career paths. This course is designed to help you:

- Learn about the Biochemistry major and topics covered in major courses
- Compare possible career paths in biochemistry
- Learn about resources available to you to succeed as a Biochemistry major

Expectations

- Classes will be held in person. You have the option to join virtually by Zoom (see D2L for Zoom link and password). Your attendance and participation are expected for all classes.
- If you miss a class, you may watch the lecture recording on D2L.
- You are expected to complete the weekly assignment every week on D2L.
- You are expected to take the final exam.
- No textbook is required for this course.

Grading

D2L assignments	77 points (7 points per assignment x 11 assignments)
Final exam (open note)	23 points
TOTAL	100 points

Grade	Points
4.0	≥ 90
3.5	≥ 85

Grade	Points
3.0	≥ 80
2.5	≥ 75

Grade	Points
2.0	≥ 70
1.5	≥ 65

Grade	Points
1.0	≥ 60
0.0	< 60

- **D2L assignments** (77 points: 7 points per assignment x 11 assignments)
 - Each assignment must be completed in D2L and is due before the beginning of next class.
 - Each assignment consists of 7 questions. For each question, you will receive 0.5 point for completion and 0.5 point for choosing the correct answer.
 - Late assignments will be accepted for half credit until November 30. Please email answers to homework questions to your TA Tamia Waller before November 30 to receive half credit.
- **Final exam** (23 points) – given during class on **December 1**.
 - The final will be administered through D2L in class. Please bring a laptop.
 - You may use your notes, internet, and laptop, but NOT your classmates.
- **Extra credit:** You may get up to 10 extra credit points (5 points per documentary) by watching the documentaries below and writing a 500-word essay for each documentary (describe it and what you learned). To receive extra credit, please email your 500-word essay(s) to the TA by November 30.
 - Documentary "Picture a Scientist": <http://catalog.lib.msu.edu/record=b14200933~S39a>. View the film by clicking the link under "Available Online" and logging on with MSU credentials.
 - Documentary "Chasing Coral": <https://www.youtube.com/watch?v=aGGBGcjdjXA>

Wk	Date	Topic	Instructor	Homework	Due
1	9/8	Welcome & Course Overview	Dr. Lunt	Quiz 1 on D2L	9/15
2	9/15	Topics in Biochemistry	Dr. Lunt	Quiz 2 on D2L	9/22
3	9/22	Academic Success Strategies	Susan Stoltzfus	Quiz 3 on D2L	9/29
4	9/29	BMB major & 4-year plan	Leslie Thompson & Evelyn Grace	Quiz 4 on D2L	10/6
5	10/6	Neogen Technologies & Careers	Dave Almy	Quiz 5 on D2L	10/13
6	10/13	Graduate and Professional Schools	Tamia Waller	Quiz 6 on D2L	10/20
7	10/20	Resume Building & Interviewing	Brian Telfor	Quiz 7 on D2L	10/27
8	10/27	Career Exploration	Krysta Coleman	Quiz 8 on D2L	11/3
9	11/3	Research & Internships	Dr. Sandra Hammer	Quiz 9 on D2L	11/10
10	11/10	Fructose & metabolic syndrome	Dr. Sean Weise	Quiz 10 on D2L	11/17
11	11/17	How to Read a Journal Article	Dr. Lunt	Quiz 11 on D2L	12/1
	11/24	No class – Thanksgiving Break			
12	12/1	Final exam (open note)	Dr. Lunt		
13	12/8	Class Discussion	Dr. Lunt		

Policies

- **Inclusive classroom:** We are committed to creating a supportive and welcoming environment where all students can pursue academic and personal success. If you have a concern about the something that occurs in class, please contact one of us to so that we can address the situation.
- **Academic honesty** is central to the educational process. Acts of academic dishonesty are serious offenses within the University community. Suspension from the University could be the consequence for acts of academic dishonesty. At MSU, [General Student Regulation 1.00](#) states in part that “no student shall claim or submit the academic work of another as one’s own.”
- **Spartan Code of Honor:** “As a Spartan, I will strive to uphold values of the highest ethical standard. I will practice honesty in my work, foster honesty in my peers, and take pride in knowing that honor in ownership is worth more than grades. I will carry these values beyond my time as a student at Michigan State University, continuing the endeavor to build personal integrity in all that I do.”
<http://splife.studentlife.msu.edu/spartan-code-of-honor-academic-pledge>.
- **Policy on Accommodations for Students with Disabilities:** MSU is committed to providing equal opportunity for participation in all programs, services and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities at 517-884-RCPD or on the web at <https://www.rcpd.msu.edu/>. Once your eligibility for an accommodation has been determined, you will be issued a verified individual services accommodation (“VISA”) form. Please present this form to Dr. Lunt at the start of the term.
- **Chosen Name and Pronoun Policy:** All people have the right to be addressed and referred to in accordance with their personal identity. If you would like to change your name, you can do that through StuInfo. Your gender marker can be changed by filing a request through the Office of the Registrar. More information: <https://lbqtrc.msu.edu/trans-msu/msu-name-and-gender.html>.
- **Policy on religious observance:** It is the policy of MSU to permit students to observe holidays set aside by their chosen religious faith. If you will be absent from class on your religious holiday, please make arrangements with Dr. Lunt in advance.
- **Grief Policy:** If you experience death of a family member or emotional distress from a similar tragedy, please review the Grief Absence Policy: <https://msu.edu/unit/ombud./classroom-policies/index.html#GriefAbsencePolicy>.