

BC192 - Freshmen Seminar in Biochemistry and Molecular Biology

SYLLABUS

Seminar: 12:00-12:50 PM on Thursdays at Glover 130

Recitation: 1:00-1:50 PM on Thursdays at Glover 130

Instructors: Drs. Chaoping Chen and Laurie A Stargell

Chaoping Chen Email: Chaoping.Chen@colostate.edu
Phone: 491-0726
Office: MRB 233

Laurie A Stargell Email: Laurie.Stargell@ColoState.edu
Phone: 491-5068
Office: MRB 111

Learning Objectives:

- Provide an overview of the biochemistry curriculum and the department
- Facilitate your transition from high school to a major public university
- Provide career perspectives with the biochemistry major
- Introduce fundamental concepts of biochemistry

Class Schedule:

Aug 23 Speaker: Dr. Laurie A Stargell,
(wk1) *Seminar topic: Introduction to the Department and BMB Major*
Recitation: Class Overview followed by a quick department tour

Canvas Quiz 1

Aug 30 Speaker: Judy Brobst – Career Counselor, College of Natural Sciences
(wk2) (Judy.Brobst@ColoState.EDU)
Seminar topic: Where do you want to go? Let's get busy.
Recitation: Presentation and Q&A by Allen K Zhu, MD, a 1st year resident from UCLA

Career worksheet due by 9/2, Sunday, 11:59 pm (submit to Canvas)

Sep 6 Speaker: Dr. Aaron Sholders, BMB Key Advisor (Aaron.Sholders@ColoState.edu)
(wk3) *Seminar topic: the BMB Curriculum*
Recitation: Develop your own four-year study plan.

Turn in your 4-yr class plan by 9/9, Sunday, 11:59 pm (submit to Canvas)

Sep 13 Speaker: Vince Vidaurri, Clinical Pharmacist at UC Health Cancer Center
(wk4) *Seminar topic: Careers in Pharmacy*

Speaker: Carson Haney, UC Skaggs School of Pharmacy and Pharmaceutical Sciences
Seminar topic: Pharmacy Program

Speaker: Brittney Kemp, a CSU alumna, an occupational therapy student at UCAMC
Seminar topic: *The journey of pursuing a therapy profession*

Canvas Quiz 2

Turn in your top 4 choices of BMB faculty you want to meet with by 9/16, Sunday, 11:59 pm (submit on Canvas). The assignment is first come and first served.

Sep 20 Speaker: Mekdelawit Desta, The Institute for Learning and Teaching (TILT)
 (wk 5) *Seminar topic: TILT Academic Success Workshop*

Recitation: Meeting with BMB faculty – part I

Canvas Quiz 3

Sep 27 Speaker: Dr. Timothy Stasevich
 (wk6) *Seminar topic: Light Microscopy in Biochemistry*

Recitation: Meeting with BMB faculty – part II

Canvas Quiz 4

Oct 4 Undergraduate panel discussion – going through the journey of a BMB major
 (wk7)

Recitation: BCSA tutoring to help prepare for exams

Canvas Quiz 5

Oct 11 Speaker: Dr. Paul Laybourn
 (wk8) *Seminar topic: Gibbs's equation and his contributions to Biochemistry*

Recitation: Meeting with BMB faculty – part III

Canvas Quiz 6

A summary on meeting with the faculty due on 10/14, Sunday, 11:59 pm (submit on Canvas)

Oct 18 Spring Registration Advising by Brian Kalet
 (wk9) **12:00-12:50 students with last name A-K**
1:00-1:50: students with last name L-Z

Oct 25 Speaker: Leslie Ross, Genetic Counselor, UCHealth Cancer Center
 (wk10) *Seminar Topic: Careers in Genetic Counseling*

Speakers: Drs. Erin Nishimura and Chaoping Chen
Seminar topic: Computation and Mathematics in Biochemistry

Canvas Quiz 7

Nov 1 Morgan Library Tutorial by Michelle Wilde/Jocelyn Boice
 (wk11) **Special Location:** Morgan Library Computer Classrooms (173 & 174)

12:00-12:50 students with last name A-K
(A through F in Room 173, G through K in Room 174)

1:00-1:50: students with last name of L-Z
(L through Si in Room 173, St through Z in Room 174)

Turn in your library worksheet at the end of the class

Nov 8 (wk12) Speaker: Dr. Ron Arndt, Director of Northern Colorado Regional Forensic Laboratory
Seminar topic: *From the laboratory to the courtroom: Forensic analyses of the crime*

Speaker: TBD
Seminar topic: *Foundations of Biochemistry and Molecular Biology*

Canvas Quiz 8

Nov 15 (wk 13) Speaker: Jill Livengood, InViragen
Seminar topic: *Careers in Biotechnology*

Speaker: Dr. Marv Paule, Emeritus Professor and Jefferson Science Fellow
Seminar topic: *Careers in Science and Government*

Canvas Quiz 9

Nov 22 (wk 14) **Thanksgiving Break - No class or recitation**

Nov 29 (wk15) Speaker: Shelle Mclean, Health Professions Advisor
Seminar topic: *Important Information for Pre-Med and Pre-Vet students*

Recitation: BCSA tutoring to help prepare for exams

Canvas Quiz 10

Dec 6 (wk16) Speakers: a panel of graduate and post-graduate scientist
Seminar topic: *Career in Biomedical Research*

Recitation: class survey

Career Plan due on 12/10, Sunday, 11:59 pm (submit on Canvas)

No Final Exam.

Assessments:

Canvas Quizzes (50%): There are total 10 quizzes throughout the semester. Each quiz is posted to Canvas shortly after the seminar and due on the following Sunday by midnight.

Career Worksheet (5%): Each student turns in a typed career worksheet to Canvas by 9/2.

4-year class plan (10%): Each student submits your individual 4-yr plan in Canvas due by 9/9. Also, enter your class schedule through RAMweb under register\plan ahead.

Choose 4 BMB faculty to meet with (5%): Review the Biochemistry Department website: <http://www.bmb.colostate.edu/faculty>. Submit the names of 4 faculty members that you'd like to meet. For each faculty you choose, also submit one question you'd like to ask him/her. Due to Canvas by 9/16.

Faculty meeting summary (10%): Upon completion of meetings with your selected faculty, each student will write a summary on each meeting. Describe briefly in your own words (3-5 sentences) the significance of each research topic. Due to Canvas by 10/14.

In-Class activities (10%): worksheet and/or assignment related to foundations of biochemistry and molecular biology.

Career Plans Paper (10%): Each student writes a two-page, typed, double-spaced paper describing their current career plans. This should include a discussion of material covered in class that helped you to formulate your career plans and describe the activities you plan to pursue at Colorado State University that will assist you in achieving your goal. Due to Canvas by 12/10.

Grading:

The first time you miss the deadline of any assignment including quizzes, you will get 80% of the points as long as the late assignment is completed within 7 days. However, no future late assignment will be accepted. Absences due to medical and family emergencies will be evaluated on a case-by-case basis.

Traditional letter grades (A to F) will be assigned. The individual class assignments will constitute the percentage of your grade as indicated above. Written assignments will be graded for *spelling and grammar*, as well as content and organization.

Ram Pride – Academic Integrity:

NO unauthorized assistance on academic work will be given, received or used.