

UNIVERSITY OF CALIFORNIA, DAVIS
Department of Chemical Engineering and Materials Science

ECM 290/ EMS 298: Preparing for Graduate Research
COURSE OUTLINE - Fall 2014

- Instructor: Professor Yayoi Takamura
2009 Kemper Hall
x4-7124
email: ytakamura @ ucdavis.edu
Office hours: Thursdays 1:30-2:30pm, or by appointment
Course webpage: SmartSite
- Course Times EMS 298: Tuesdays 12:10 – 1:00 pm in Hutchinson 102 (unless otherwise noted)
EMS 290: Thursdays 12:10 – 1:00 pm in Kemper 1065
- Units: Each class should be taken for 1 unit. Note that EMS 298 is a variable unit class so you must ensure that you enroll for the proper number of units.
- Textbook: Roel Snieder and Ken Lerner, *The Art of Being a Scientist: A Guide for Graduate Students and Their Mentors*, Cambridge University Press, ISBN: 9780521743525
- Other References: Peter J. Feibelman, *A PhD is not enough! A Guide to Survival in Science, Revised Edition*, Basic Books, New York, ISBN 978-0-465-02222-9
- Other Online Resources:
CLIMB at Northwestern: Collaborative Learning and Integrated Mentoring in the Biosciences; <http://www.northwestern.edu/climb/>
- Grading: Both classes will be graded on a Satisfactory/Unsatisfactory (S/U) basis. Note that mode of grading for EMS 298 differs from what is stated in the General Catalog.
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| Attendance | (see attached schedule) |
| Summary of 1 session offered by the Office of Graduate Studies/Library | (see attached schedule, due Thurs. Dec. 11 th) |
| Midterm/final report on meetings with Major Professors | (due Fri. Nov. 7 th and Fri. Dec. 5 th) |
| Self-reflection essay | (due Tues. Nov. 25 th) |
| Time management assessment | (due Thurs. Dec. 11 th) |
- Course Policies:
1. Assignments will be due in class on the specified due date. No late assignments will be accepted.
 2. Absence from a maximum of two class sessions will be permitted with prior notification to the course instructor via email.
 3. The UC Davis Code of Academic Conduct will be strictly enforced. (see <http://sja.ucdavis.edu/sja/cac.htm>)
 4. It is expected that students will abide by the UC Davis Principles of Community (see <http://www.ucdavis.edu/principles.html>).

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TENTATIVE COURSE SCHEDULE - Fall 2014

TUESDAY (generally Hutchinson 102)

- Oct. 7th – *Introduction & Fellowships*
Kristin Provost & Deborah McCook
Office of Graduate Studies
- Oct. 14th – *Mentorship Styles/Pacts*
Reading: Sneider & Larner Chs. 3 & 4
- Oct. 21st – Department Seminar (Kemper 1065)
Prof. Anil Virkar
Dept. Materials Science & Engineering
University of Utah
- Oct. 28th – Department Seminar (Kemper 1065)
Prof. Christopher Bowman
Dept. Chemical & Biological Engineering
University of Colorado, Boulder
- Nov. 4th - Department Seminar (Kemper 1065)
Prof. Dennis Discher
Biophysical Engineering Laboratory
University of Pennsylvania
- Nov. 11th – Veteran’s Day (NO class)
- Nov. 18th – *Time Management*
Reading: Sneider & Larner Ch. 12
- Nov. 25th – *Using the Scientific Literature*
Cory Craig
Reading: Sneider & Larner Ch. 9
- Dec. 2nd – *Research on Success: Grit, the Growth Mindset, and the Marshmallow Test*
Dr. Steve Lee, Office of Graduate Studies
Reading: Sneider & Larner Ch. 7
- Dec. 9th – Department Seminar (Kemper 1065)
Prof. Jennifer Lewis
School of Engineering & Applied Sciences
Harvard University

THURSDAY (Kemper 1065)

- Oct. 2nd – Faculty presentations
Prof. Volkmar Heinrich
Prof. Tonya Kuhl
- Oct. 9th – Faculty presentations
Prof. Subhash Mahajan
Prof. Adam Moule
Prof. Subhash Risbud
- Oct. 16th – Faculty presentations
Prof. Erkin Seker
Prof. Roland Faller
Prof. Robert Powell
- Oct. 23rd – *2nd Annual CHMS Research Symposium*
Kemper lobby (poster session)
Kemper 1065 (oral presentations)
- Oct. 30th – *How to Prepare For and Present a Seminar*
Prof. Diran Apelian
Reading: Sneider & Larner Ch. 10
- Nov. 6th – Faculty presentations
Prof. Ron Phillips
Prof. Sangtae Kim
Prof. Bruce Gates
- Nov. 13th – Faculty presentations
Dean Enrique Lavernia
Prof. Bill Ristenpart
Prof. Karen McDonald
- Nov. 20th – Faculty presentations
Prof. Julie Schoenung
Prof. Yayoi Takamura
Dean Alexandra Navrotsky
- Nov. 27th – Thanksgiving (NO class)
- Dec. 4th – Science and the Science Career
Reading: Loosely Sneider & Larner
Chs. 2, 5, 6 and 14
- Dec. 11th – Department Seminar
Prof. Chris Leighton
Dept. Chem. Eng. & Materials Science
University of Minnesota, Twin Cities