

Course Syllabus
EMA 6936- Section 3036
Seminar in Materials Science and Engineering
Fall 2013

1. Catalog Description – N/A
2. Pre-requisites and Co-requisites – None
3. Course Objectives – In this course, speakers from both outside and inside UF will present research seminars. The objective of this course is for students to be exposed to a variety of research activities occurring within the field of materials science and engineering.
4. Contribution of course to meeting the professional component – N/A
5. Relationship of course to program outcomes – N/A
6. Instructor – Chris Batich
 - a. Office location: 317 MAE
 - b. Telephone: 392-6630 (office)
 - c. E-mail address:cbati@ufl.edu
 - d. Web site: <http://batich.mse.ufl.edu/index.html> (4 years old)
7. Teaching Assistant – None
8. Meeting Times - Wednesday, Period 9. (4:05 pm)
9. Class/laboratory schedule - One hour of class time each week
10. Meeting Location – WER 1064
11. Material and Supply Fees - None.
12. Textbooks and Software Required –None
13. Recommended Reading – None
14. Attendance and Expectations – Attendance is required. You should note that attendance is taken prior to the start of each seminar. Please be prepared to present your UF ID card or another legal form of identification, which bears your photograph [driver's license, passport] to assigned staff taking attendance. If you are more than 5 minutes late, that is, you arrive after 4:10 p.m., you will be marked as absent for that seminar (unless special circumstances require this and arrangements are made beforehand). Students may not leave early except in the case of emergencies. If a student is seen leaving after signing in, which is considered cheating, he/she will receive a failing grade (U) for the class. If legitimate reasons for leaving early arise, then this should be discussed with the instructor, preferably beforehand, unless an emergency comes up.

Students may miss up to 2 seminars for a passing grade. Make-up seminars from other departments are allowed, but they must be materials' related. Therefore, approval for the make-up seminar topic must be obtained from the instructor PRIOR to the make-up seminar. The student must fill out the make-up form (on Sakai) and have a faculty member who is present at that seminar sign the form to verify attendance. Excused absences, such as attendance at a conference or workshop, require verification through either a receipt or notice from the student's advisor (a quick email is fine).

Proper behavior is expected at all times during the seminar. Unacceptable behavior includes talking, reading, working on laptops and, especially, texting. Students engaged in these behaviors may be asked to leave and will not receive attendance credit for that day's seminar.

15. Grading Scale – This is an S/U class. Graduate students need an overall GPA of 3.00 truncated and a 3.00 truncated GPA in their major (and in the minor, if a minor is declared) at graduation.
16. Grading – Attendance at the minimum number of seminars or more will result in a grade of S. Missing more than 2 seminars (without a makeup) will result in a grade of U.
17. Make-up Policy – Students may request that a graduate level research seminar presented in MSE or another engineering or physical sciences department be counted as a make-up. Requests need to be made prior to the make-up seminar and by email to the instructor, including the date, location, hosting department, title and speaker for the requested make-up. Similar exceptions can be petitioned on the basis comparable, previously scheduled research experiences outside of UF. Note that the request may be denied.
18. Course Outline – The schedule of seminar speakers and topics is shown on the following page:
19. Honesty Policy – All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a UF student and to be honest in all work submitted and exams taken in this course and all others.
20. Accommodation for Students with Disabilities – Students Requesting classroom accommodation must first register with the Dean of Students Office. That office will provide the student with documentation that he/she must provide to the course instructor when requesting accommodation.
21. UF Counseling Services – Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:
 - University Counseling Center, 301 Peabody Hall, 392-1575, Personal and Career Counseling.
 - SHCC mental Health, Student Health Care Center, 392-1171, Personal and Counseling.
 - Center for Sexual Assault/Abuse Recovery and Education (CARE), Student Health Care Center, 392-1161, sexual assault counseling.
 - Career Resource Center, Reitz Union, 392-1601, career development assistance and counseling.

22. Software Use – All University faculty, staff and students are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Seminars are on Wednesdays, 4:05P to 4:55P
Location: CSE E119

Date	Speaker	Host	Title/Topic
8/28/13	McDonald/Batich	----	Introduction to Course
9/4/13	Jennifer Andrew	Batich	Advances in Nanocomposite Design: Towards Electronic and Biomedical Applications
9/11/13	Stephen Miller	Batich	Sustainable Polymers: Degradable Mimics of Commodity Polymers
9/18/13	Sergey Vasenkov	Batich	Message of Advanced NMR on Gas Diffusion in Microporous Membranes and Related Systems
9/25/13	Gregory Thompson	Patterson	Influence of Crystallogly on Phase Transformation Pathways
10/2/13	Christine Broadbridge	Douglas	Educating a Competitive Future Workforce - Interdisciplinary Team Based Student Research and the Development of 21st Century Skills
10/9/13	Anuj Chauhan	Batich	Extended Release of Ophthalmic Drugs
10/16/13	Sara Majetich	Andrew	Self-Assembly with Magnetic Nanoparticles
10/23/13	Marc Meyers	Gower	Biological Materials and Engineering: An Overview
10/30/13	Dale Huber	Andrew	Synthesis and Applications of Magnetic Nanoparticles
11/6/13	Janelle Wharry	Yang	Understanding Radiation-Induced Segregation in Ferritic/Martensitic Steels over Multiple Dose Scales
11/13/13	John Mecholsky	Batich	Fracture as a Key to Unlocking One Secret of Nature
11/20/13	Emmanuelle Marquis	Manuel	Atomic Scale Chemistry of Interfaces
12/4/13	Martin Glicksman	Phillpot	Deterministic Complexity of Cast Microstructures