ADVANCED ORGANIC LABORATORY

CHM 425 Fall 2017

Course Instructor	Mindy Levine Beaupre 325F	mlevine@chm.uri.edu 401-874-4243
	Office hours are 11 AM-noon on Tuesdays and Th	ursdays, or by appointment.
Teaching Assistant	Teresa Mako	tmako@mail.chm.uri.edu
Course Meetings	Tuesdays and Thursdays in the Beaupre Center The class will meet from 2 PM to 5 PM.	
Textbook	There is no formal text for this class. Course notes, handouts, and literature articles will serve as the text.	
Course Goals	 The over-arching purpose of this course is the preparation of students for success in academic and industrial research laboratories. Three tasks that partially fulfill the aforementioned purpose: 1) The use of modern laboratory techniques 2) The incorporation of chemical literature into projects 3) The assignment of organic chemistry projects with real-world applications 	
Course Content	Students will be required to complete laboratory experiments, keep accurate records, and analyze data. Students will also complete a detailed retrosynthetic analysis of target molecules. As time allows, the students will perform a small research project that is related to current research being performed here at URI. There will be no exams. There are no make-up labs scheduled. If a student must miss a lab for legitimate reasons, their grade will be based on an average of their grades from the other laboratory sessions. Detailed expectations for every part of this course are discussed in a separate handout.	
Grading Scheme	Laboratory Notebook / Data 40% Final Project (Progress & Report) 20% Techniques / Lab Citizenship 20% Final Literature Report 20%	
Course Schedule	A tentative course schedule is shown on the next p change.	age. This schedule is subject to
Academic Integrity	Academic dishonesty will not be tolerated. It is an who have been caught cheating or misrepresenting disciplinary actions contained in the URI Universi- the assignment/exam and potentially culminati University. Every instance of academic dishones to the Dean's Office. There are no exception circumstances.	unforgivable offense. Students their work will be subject to the ity Manual including failure of ng with expulsion from the sty will be reported promptly ns to this policy under any

Course Schedule:

#	Day	Date	Торіс
1	Th	9/7	Course introduction; check-in
2	Т	9/12	Experiment 1: Unknown separation and identification
3	Th	9/14	Unknown separation continued
4	Т	9/19	Experiment 2: Anise extraction
5	Th	9/21	Anise extraction continued
6	Т	9/26	Anise extraction continued and Scifinder introduction
7	Th	9/28	Experiment 3: Mannich reaction
8	Т	10/3	Mannich reaction continued
9	Th	10/5	Experiment 4: Fluorophore synthesis
10	Т	10/10	Fluorophore synthesis continued
11	Th	10/12	Fluorophore synthesis continued
12	Т	10/17	Fluorophore synthesis continued
13	Th	10/19	Experiment 5: Fluorescent polymer synthesis
14	Т	10/24	Fluorescent polymer continued
15	Th	10/26	Fluorescent polymer continued/ Energy Transfer
16	Т	10/31	Experiment 6: MOF Project Day 1
17	Th	11/2	MOF Project Day 2
18	Т	11/7	MOF Project Day 3
19	Th	11/9	MOF Project Day 4
20	Т	11/14	MOF Project Day 5
21	Th	11/16	MOF Project Day 6
22	Т	11/21	Independent Project Day 1
23	Т	11/28	Independent Project Day 2
24	Th	11/30	Independent Project Day 3
25	Т	12/5	Independent Project Day 4
26	Th	12/7	Independent Project Day 5
12/12	Indeper	ndent Proje	ect Report Due; Final Literature Report Due