



Course Syllabus: Advanced Topics in Chemistry - ChemS 390

Division	Physical Science and Engineering Division
Course Number	ChemS 390
Course Title	Advanced Topics in Chemistry
Academic Semester	Spring
Academic Year	2017/2018
Semester Start Date	01/28/2018
Semester End Date	05/24/2018
Class Schedule (Days & Time)	04:00 PM - 05:30 PM Sun Thu

Instructor(s)				
Name	Email	Phone	Office Location	Office Hours
Valentin Rodionov	Valentin.Rodionov@kaust.edu.sa	+966128084592		By appointment.
Alexander Rothenberger	Alexander.Rothenberger@kaust.edu.sa	+966128080745		
Pierre Beaujuge	Pierre.Beaujuge@kaust.edu.sa	+966128080747		
Magnus Albert Rueping	magnus.rueping@kaust.edu.sa	+966128087346	4236, 3, Ibn Sina (bldg. 3)	

Teaching Assistant(s)	
Name	Email

Course Information	
Comprehensive Course Description	This course focuses on advanced and special topics in chemistry: organocatalysis, supramolecular chemistry, and crystallography.
Course Description from Program Guide	The advanced topics class will focus on current research topics that have a direct influence on various applications including catalysis, solar energy in addition to emerging synthetic and analytical techniques for producing new generations of materials.
Goals and Objectives	The course focuses as much on the special topics in chemistry as it does on building the skill set for navigating the modern chemistry literature. The students will improve their skills in literature search and critical analysis, as well as their presentation skills.
Required Knowledge	Knowledge of fundamentals of General, Organic and Organometallic chemistry.
Reference Texts	<ol style="list-style-type: none"> 1. ACS Scifinder Scholar: https://scifinder.cas.org/ 2. Web of Knowledge: http://www.webofknowledge.com/ 3. Class materials and handouts provided by each instructor.
Method of evaluation	75.00% - Presentation 25.00% - Homework /Assignments

Nature of the assignments	Assignments for the class will consist of presentations based on original research papers.
Course Policies	<p>The highest levels of academic integrity are expected in this class. The code of student conduct will be strictly enforced.</p> <p>Proper attribution is expected when using any information from the scientific literature, textbooks, resources on the web. Lack of proper attribution or verbatim copying of content will result in an automatic <i>zero grade</i> for an <i>entire assignment</i>.</p> <p>There is no make-up for missed presentation dates, unless the instructor has been notified in advance of a valid reason for student's absence. A grade of 0 is automatically assigned for any missed presentation.</p>
Additional Information	

Tentative Course Schedule

(Time, topic/emphasis & resources)

Week	Lectures	Topic
1	Sun 01/28/2018	Advanced Topics in Chemistry: A1
1	Thu 02/01/2018	Advanced Topics in Chemistry: A2
2	Sun 02/04/2018	Advanced Topics in Chemistry: A3
2	Thu 02/08/2018	Advanced Topics in Chemistry: A4
3	Sun 02/11/2018	Advanced Topics in Chemistry: A5
3	Thu 02/15/2018	Advanced Topics in Chemistry: A6
4	Sun 02/18/2018	Advanced Topics in Chemistry: A7
4	Thu 02/22/2018	Advanced Topics in Chemistry: A8
5	Sun 02/25/2018	Advanced Topics in Chemistry: B1
5	Thu 03/01/2018	Advanced Topics in Chemistry: B2
6	Sun 03/04/2018	Advanced Topics in Chemistry: B3
6	Thu 03/08/2018	Advanced Topics in Chemistry: B4
7	Sun 03/11/2018	Advanced Topics in Chemistry: B5
7	Thu 03/15/2018	Advanced Topics in Chemistry: B6
8	Sun 03/18/2018	Advanced Topics in Chemistry: B7
8	Thu 03/22/2018	Advanced Topics in Chemistry: B8
9	Sun 03/25/2018	Advanced Topics in Chemistry: C1
9	Thu 03/29/2018	Advanced Topics in Chemistry: C2
10	Sun 04/01/2018	----
10	Thu 04/05/2018	----
11	Sun 04/08/2018	Advanced Topics in Chemistry: C3
11	Thu 04/12/2018	Advanced Topics in Chemistry: C4
12	Sun 04/15/2018	Advanced Topics in Chemistry: C5
12	Thu 04/19/2018	Advanced Topics in Chemistry: C6
13	Sun 04/22/2018	Advanced Topics in Chemistry: C7
13	Thu 04/26/2018	Advanced Topics in Chemistry: C8
14	Sun 04/29/2018	Advanced Topics in Chemistry: D1
14	Thu 05/03/2018	Advanced Topics in Chemistry: D2
15	Sun 05/06/2018	Advanced Topics in Chemistry: D3
15	Thu 05/10/2018	Advanced Topics in Chemistry: D4
16	Sun 05/13/2018	Advanced Topics in Chemistry: D5
16	Thu 05/17/2018	Advanced Topics in Chemistry: D6
17	Sun 05/20/2018	Advanced Topics in Chemistry: D7
17	Thu 05/24/2018	Advanced Topics in Chemistry: D8

Note

The instructor reserves the right to make changes to this syllabus as necessary.