



Course Syllabus: Advanced Topics in Bioscience - B 345

Division	Biological and Environmental Sciences & Engineering Division
Course Number	B 345
Course Title	Advanced Topics in Bioscience
Academic Semester	Spring
Academic Year	2017/2018
Semester Start Date	01/28/2018
Semester End Date	05/24/2018
Class Schedule (Days & Time)	02:30 PM - 04:00 PM Sun Wed

Instructor(s)				
Name	Email	Phone	Office Location	Office Hours
Stefan Theodor Arold	Stefan.Arold@KAUST.EDU.S A	+966128082557	4275, 2, Ibn Al-Haytham (bldg. 2)	TBD

Teaching Assistant(s)	
Name	Email

Course Information	
Comprehensive Course Description	The course reviews current topics in bioscience, particularly relying on scientific journal publications to provide case studies, illustrative examples, classic studies, and controversial findings pertinent to specific fields within biosciences. The course will feature an emphasis on primary literature searches, reading and assessment of primary literature. It is expected that the student reads no less than 5 scientific papers per week in the prescribed topic area and is capable of presenting and critically discussing the content of these publications. In this level 300 course, the student assessment is based on active participation in the lectures and tutorials.
Course Description from Program Guide	The course reviews current topics in bioscience, particularly relying on scientific journal publications to provide case studies, illustrative examples, classic studies, and controversial findings pertinent to specific fields within biosciences. The course will feature an emphasis on primary literature searches, reading and assessment of primary literature. It is expected that the student reads no less than 5 scientific papers per week in the prescribed topic area and is capable of presenting and critically discussing the content of these publications. In this level 300 course, the student assessment is based on active participation in the lectures and tutorials.
Goals and Objectives	Will be specified by the designated professor
Required Knowledge	Will be specified by the designated professor
Reference Texts	Will be specified by the designated professor
Method of evaluation	25.00% - Scientific review article presentation 25.00% - Presentation 50.00% - Homework /Assignments
Nature of the assignments	The students will be assessed on their bi-weekly written assignments (50%). In addition each student will present a core topic as part of the program seminar series (25%). The students will also present a scientific review article on a recent topic fully formatted according to the instructions 'to authors' of a highly regarded journal of the life sciences (25%). Course work will generally comprise >3 hours/week made up of tutorials and laboratory exercises depending on the research topic.

Course Policies	Will be specified by the designated professor
Additional Information	

Tentative Course Schedule
(Time, topic/emphasis & resources)

Week	Lectures	Topic
1	Sun 01/28/2018 Wed 01/31/2018	According to the topic and as outlined by the designated professor
2	Sun 02/04/2018 Wed 02/07/2018	According to the topic and as outlined by the designated professor
3	Sun 02/11/2018 Wed 02/14/2018	According to the topic and as outlined by the designated professor
4	Sun 02/18/2018 Wed 02/21/2018	According to the topic and as outlined by the designated professor
5	Sun 02/25/2018 Wed 02/28/2018	According to the topic and as outlined by the designated professor
6	Sun 03/04/2018 Wed 03/07/2018	According to the topic and as outlined by the designated professor
7	Sun 03/11/2018 Wed 03/14/2018	According to the topic and as outlined by the designated professor
8	Sun 03/18/2018 Wed 03/21/2018	According to the topic and as outlined by the designated professor
9	Sun 03/25/2018 Wed 03/28/2018	According to the topic and as outlined by the designated professor
10	Sun 04/01/2018 Wed 04/04/2018	According to the topic and as outlined by the designated professor
11	Sun 04/08/2018 Wed 04/11/2018	According to the topic and as outlined by the designated professor
12	Sun 04/15/2018 Wed 04/18/2018	According to the topic and as outlined by the designated professor
13	Sun 04/22/2018 Wed 04/25/2018	According to the topic and as outlined by the designated professor
14	Sun 04/29/2018 Wed 05/02/2018	According to the topic and as outlined by the designated professor
15	Sun 05/06/2018 Wed 05/09/2018	According to the topic and as outlined by the designated professor
16	Sun 05/13/2018 Wed 05/16/2018	According to the topic and as outlined by the designated professor
17	Sun 05/20/2018 Wed 05/23/2018	According to the topic and as outlined by the designated professor
18		According to the topic and as outlined by the designated professor

Note

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