



## Course Syllabus: Advanced Topic in EnSE - EnSE 316

<b>Division</b>	Biological and Environmental Sciences & Engineering Division
<b>Course Number</b>	EnSE 316
<b>Course Title</b>	Advanced Topic in EnSE
<b>Academic Semester</b>	Spring
<b>Academic Year</b>	2017/2018
<b>Semester Start Date</b>	01/28/2018
<b>Semester End Date</b>	05/24/2018
<b>Class Schedule</b> (Days & Time)	05:30 PM - 07:00 PM   Mon Wed

Instructor(s)				
Name	Email	Phone	Office Location	Office Hours
Pascal Saikaly	Pascal.Saikaly@kaust.edu.sa	+966128084903	4237, 4, Al-Jazri (bldg. 4)	By appointment

Teaching Assistant(s)	
Name	Email
N/A	N/A

Course Information	
<b>Comprehensive Course Description</b>	The course reviews current topics in Environmental Science and Engineering, including but not limited to environmental chemistry, microbiology and biotechnology, materials for water treatment, environmental hydrology, physical and chemical water treatment, and environmental management.
<b>Course Description from Program Guide</b>	The course reviews current topics in Environmental Science and Engineering, 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.
<b>Goals and Objectives</b>	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.
<b>Required Knowledge</b>	The student is expected to have had a good knowledge of his/her research field. The course is open only to PhD students.
<b>Reference Texts</b>	N/A
<b>Method of evaluation</b>	50.00% - Active participation 25.00% - Written report 25.00% - Oral presentation
<b>Nature of the assignments</b>	The course relies heavily on scientific journal publications to provide case studies, illustrative examples, classic studies, and controversial findings pertinent to specific fields within Environmental Science and Engineering. The course will feature an emphasis on primary literature searches, reading and assessment of primary literature.

<b>Course Policies</b>	In this level 300 course, the student assessment is based on active participation in the lectures, tutorials, and discussions. Absences will be taken into the consideration of the course grading and late assignments will be accepted but penalized accordingly.
<b>Additional Information</b>	The instructor reserves the right to make changes to this syllabus as necessary.

### Tentative Course Schedule

*(Time, topic/emphasis & resources)*

Week	Lectures	Topic
1	Mon 01/29/2018 Wed 01/31/2018	Tutorials, literature reading, presentation, and discussions.
2	Mon 02/05/2018 Wed 02/07/2018	Tutorials, literature reading, presentation, and discussions.
3	Mon 02/12/2018 Wed 02/14/2018	Tutorials, literature reading, presentation, and discussions.
4	Mon 02/19/2018 Wed 02/21/2018	Tutorials, literature reading, presentation, and discussions.
5	Mon 02/26/2018 Wed 02/28/2018	Tutorials, literature reading, presentation, and discussions.
6	Mon 03/05/2018 Wed 03/07/2018	Tutorials, literature reading, presentation, and discussions.
7	Mon 03/12/2018 Wed 03/14/2018	Tutorials, literature reading, presentation, and discussions.
8	Mon 03/19/2018 Wed 03/21/2018	Tutorials, literature reading, presentation, and discussions.
9	Mon 03/26/2018 Wed 03/28/2018	Tutorials, literature reading, presentation, and discussions.
10	Mon 04/02/2018 Wed 04/04/2018	Tutorials, literature reading, presentation, and discussions.
11	Mon 04/09/2018 Wed 04/11/2018	Midterm break, no class
12	Mon 04/16/2018 Wed 04/18/2018	Tutorials, literature reading, presentation, and discussions.
13	Mon 04/23/2018 Wed 04/25/2018	Tutorials, literature reading, presentation, and discussions.
14	Mon 04/30/2018 Wed 05/02/2018	Tutorials, literature reading, presentation, and discussions.
15	Mon 05/07/2018 Wed 05/09/2018	Tutorials, literature reading, presentation, and discussions.
16	Mon 05/14/2018 Wed 05/16/2018	Tutorials, literature reading, presentation, and discussions.
17	Mon 05/21/2018 Wed 05/23/2018	Student's final presentation and discussion
18		Student's final presentation and discussion

**Note**

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