

# CBE 459 Chemical and Biomolecular Engineering Laboratory II

## Course Syllabus

Fall 2011

GROUP	EXPERIMENT			
	Section 01 (Mondays 2:00 - 5:30 p.m.)			
	8/29, 9/5, 9/12	9/19, 9/26, 10/3	10/10, 10/24, 10/31	11/7, 11/14 11/28
M1	1	2	3	4
M2	2	3	4	1
M3	3	4	1	2
M4	4	1	2	3

- **Oral presentation by Mon. groups on December 5, 2011 at 2:00 Room ?**

Experiment	Faculty Member (TA`s)
Catalytic Oxidation of Methane	Dr. Saddawi (Dallas Rensel)
Cooling Tower	Dr. Phillip (Kara Graber)
Fermentation/Two Tank Level Control	Dr. Saddawi (Kara Graber)
Particle Image Velocimetry	Dr. Leighton (Dallas Rensel)

GROUP	EXPERIMENT Section 02 (Tuesdays 2:00 - 5:30 p.m.)			
	8/30, 9/6, 9/13	9/20, 9/27, 10/4	10/11, 10/25, 11/1	11/8, 11/15, 11/29
T1	1	2	3	4
T2	2	3	4	1
T3	3	4	1	2
T4	4	1	2	3

- Oral presentation by Tuesdays group on December 6, 2011 at 2:00 Room

Experiment	Faculty Member (TA`s)
1. Catalytic Oxidation of Methane	Dr. Saddawi (Gavin Irvin)
2. Cooling Tower	Dr. Phillip (Eliseo Marin)
3. Fermentation/Two Tank Level Control	Dr. Saddawi (Gavin Irvin)
4. Particle Image Velocimetry	Dr. Leighton (Eliseo Marin)

GROUP	EXPERIMENT Section 03 (Wednesdays 2:00 - 5:30 p.m.)			
	8/31, 9/7, 9/14	9/21, 9/28, 10/5	10/12, 10/26, 11/2	11/9, 11/16, 11/30
W1	1	4	3	2
W2	2	3	4	1
W3	3	2	1	4
W4	4	1	2	3

- Oral presentation by Wednesdays group on December 7, 2011 at 2:00 Room ?

Experiment	Faculty Member (TA`s)
1. Catalytic Oxidation of Methane	Dr. Saddawi (Dallas Rensel)
2. Cooling Tower	Dr. Phillip (Kara Graber)
3. Fermentation/Two Tank Level Control	Dr. Saddawi (Kara Graber)
4. Particle Image Velocimetry	Dr. Leighton (Dallas Rensel)

GROUP	EXPERIMENT			
	Section 04 (Thursdays 2:00 - 5:30 p.m.)			
	9/1 9/8, 9/15	9/22, 9/29, 10/6	10/13, 10/27, 11/3	11/10 11/17, 12/1
R1	1	4	3	2
R2	2	3	4	1
R3	3	2	1	4
R4	4	1	2	3

- **Oral presentation by Thursdays group on December 8, 2011 at 2:00. Room**

Experiment	Faculty Member (TA`s)
1. Catalytic Oxidation of Methane	Dr. Saddawi (Gavin Irvin)
2. Cooling Tower	Dr. Phillip (Eliseo Marin)
3. Fermentation/Two Tank Level Control	Dr. Saddawi (Gavin Irvin)
4. Particle Image Velocimetry	Dr. Leighton (Eliseo Marin)

## Friday Lectures for fall 2011

Experiment	Date and time 3.00 – 4:00 p.m.	Instructor	Location
General meeting for Lab format and to decide on group assignments	8/25 at 4:00 p.m.	S. Saddawi	<b>S-R Hall 109</b>
Catalytic oxidation of Methane or Two Tank level control	8/26, 9/16, 10/7, 11/4	S. Saddawi	DeBartolo <b>202</b>
Fermentation of Sucrose/ Dextrose Two Tank level control	4:00 – 5:00 8/26, 9/16, 10/7, 11/4	S. Saddawi	DeBartolo <b>202</b>
Cooling Tower	8/26, 9/16, 10/7, 11/4	W. Philip	DeBartolo <b>204</b>
Particle Image Velocimetry	8/26, 9/16, 10/7, 11/4	D. Leighton	DeBartolo <b>206</b>