

Chemical Engineering Laboratory II

ChE496

3 credits

Pre-requisite Courses: ChE 349, 360, 380, 396, Chem 339, Math 225A

Co-requisite Courses: ChE 460, 489

Tiernan Hall: Labs B7, 206, 311

Instructor: Dr. Irina Molodetsky

Room 350 Tiernan Hall

Office hours: Monday, 4-5:30pm; Thursday: 3-5:30 pm

Please, contact by email for additional meeting

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Course overview

- Laboratory experiments are completed in teams.
- Each team will conduct four experiments.
 - Three laboratory experiments require a written report in the format of a scholarly paper (report from the team) -75% of the total grade
 - One laboratory experiment will be presented to your peers (team presentation; ppt format)-25 % of the total grade
- The laboratory experiments include modeling and prediction components. Completion of these components requires a math software package (for example, Polymath, which is available on all ChE computers).
- This course will use the NJIT Moodle site accessed by <http://moodle.njit.edu> for all communications regarding changes in the schedule, status of the experiments, score rubrics, files and documents.
- The manuals for laboratory experiments are uploaded to Moodle site.
 - These manuals reflect a sustaining, multiyear effort of Prof.R.Barat to develop an experimental course for chemical engineers. This course gives you unique opportunities to apply knowledge you gained from the theoretical courses to real-life open-ended problems.

Professional behavior

- You are expected to follow the laboratory safety standards.
 - General guidelines are discussed at length in the Lab Manual – Introduction.
 - Every laboratory experiment includes specific safety guidelines.
 - Every team will be required to complete a risks assessment prior to running a specific laboratory experiment.
- Participation of each member of the team is critical and will be evaluated by the team members, as well as by the instructor. These evaluations will affect the final grade.

Policy on Academic Integrity

Members of the NJIT community are expected to be honest and forthright in their academic endeavors as stated in the academic integrity code:

www.njit.edu/academics/pdf/academic-integrity-code.pdf

Accommodations due to a disability

If you need accommodations due to a disability please contact Chantonette Lyles, Associate Director of Disability Support Services, Fenster Hall Room 260 to discuss your specific needs. A Letter of Accommodation Eligibility from the Disability Support Services office authorizing your accommodations will be required.