



*Course Requirements and Grading:*

Five experiments will be assigned to each group. This is subject to change.

All reports and presentations are to be group efforts and submissions. Submitted reports should be on paper. Electronic submissions are allowed only in special cases and then only by prior arrangement with the instructor.

- Scholarly paper (1) – *Exp. #1* 20 %
- Proposal – Request for Funding – *Exp. #3* 20 %
- Industrial memo (2) – *Exp's. # 2, 4* 40 %
- Oral presentation (tech translation) – *Exp. #5* 20 %

**IMPORTANT NOTE:** Your behavior as a member of a group has an important impact on your final grade. Where group efforts are involved, we are now using an adjustment factor that acts as a multiplier on your grade based on the 5 reports. This multiplier is adapted from R.W. Brown, “Autorating: Getting individual marks from team marks and enhancing teamwork,” paper 3C24, 1995 Frontiers in Education Conference Proceedings. This multiplier can raise or lower your overall grade. The factor is weighted by how you and your group colleagues grade your performance. **DO NOT TAKE THIS LIGHTLY!** (see site: <http://web.njit.edu~barat>)

*ABET Course Goals:*

1. Challenge students to apply all prior classroom knowledge and laboratory experiences in the successful execution and analysis of chemical engineering experiments with procedures and devices applicable to mass transfer, separations, chemical reaction, and process control applications.
2. Inspire students to think critically as they approach the chemical engineering laboratory experiments with an ethical awareness and a research orientation.

*ABET Program Objectives Addressed:*

1. **Engineering Practice:** Alumni from our program are successfully engaged in the practice of chemical engineering within industry, academe and government, working in a wide array of technical specialties including, but not limited to, process and plant design operations.