

ChBE 2801: Inside Chemical & Biomolecular Engr.

BH 388 -5:00-5:50 pm-Tue (Lec) Wed & Thur. 5:00-5:50 Recitation

Wed Thur are optional-but see note C- 2801 Course Approach.

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Credit Hours: Grading Basis: 1 hr credit: pass/fail—grades based on attendance + *weekly CANVAS short quiz* ($\geq 50\%$ is passing)

Course Co-requisite: ChBE 2100, Chemical Process Principles (enrollment in CHBE 2801 requires both being a first semester ChBE transfer student **and** enrollment in ChBE 2100—([or approval by CHBE Academic Advising staff](#)))

Catalog Description: Personalized mentoring of first semester ChBE transfer students in adapting to Georgia Tech's competitive atmosphere and *learning effective chemical engineering problem-solving skills*.

Textbook: Felder, Rousseau and Bullard, Elementary Principles of Chemical Processes, John Wiley & Sons, Inc., 4th Edition

Course Objective: Teach the art of chemical engineering problem solving to transfer students by individual mentoring during assimilation into the group of students who started as freshmen at GT. Coaching on how to attack and solve problems related to material covered in the co-requisite ChBE 2100 is the main technical feature of the course.

CHBE 2801 Overall Outcome: Assist GT transfer students to excel in CHBE 2100 and assimilate into the GT CHBE culture

CHBE 2801 Course Approach: Three complementary items are combined synergistically to achieve the above outcome.

- A. A 50 minute weekly lecture each Tuesday covering examples highly relevant to CHBE 2100 material
- B. Short weekly quiz that reinforces the 50 minute lecture in item A
- C. Two 50 min/week problem solving/recitation session(s) on material related to items A & B or material from CHBE 2100 lectures and homework. The instructors rotate between students to assess problem-solving approaches, provide suggestions to “tune” approaches and answer general questions related to CHBE 2100. (Attendance at these sessions is not required, but attending the individualized problem solving sessions will be very helpful to excel in CHBE 2100 !)

Academic Honest/Integrity : You must uphold the ideals of honor and integrity by refusing to betray the trust bestowed upon you as a member of the Georgia Tech community.

Use of AI in ChBE 2801 is acceptable, but you are encouraged to rely upon your own logic in analyzing problems and developing your solutions to these problems.