

# New Course EFD Template



College of Engineering

Engineering Faculty Document No.:

48-17

June 30, 2025

**TO:** The Engineering Faculty

**FROM:** The Faculty of the Davidson School of Chemical Engineering

**RE:** New graduate course – CHE 68600 – Chemical Engineering Teaching Experience

The Faculty of the Davidson School of Chemical Engineering has approved the following new graduate course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

FROM (IF ALREADY OFFERED WITH TEMPORARY NUMBER):

CHE 69700 – CHE Teaching Experience

Spring and Fall

3 total credits;

Course has been offered every spring and fall semester since 2011

TO: CHE 68600 – CHE Teaching Experience

Spring and Fall

3 total credits;

The course consists of one hour per week seminar/workshop on teaching topics, plus teaching practice as a TA in the same semester. The course covers a brief introduction to teaching pedagogy, practical advice on running recitations, encouraging active learning, providing effective and efficient feedback, reflection and evaluation of performance.

## RATIONALE:

Serving as Teaching Fellow is a required part of the academic program for a graduate degree in chemical engineering. The course consists of one hour per week seminar/workshop on teaching topics, plus teaching practice as a TA in the same semester. The course covers a brief introduction to teaching pedagogy, practical advice on running recitations, encouraging active learning, providing effective and efficient feedback, reflection and evaluation of performance.

A handwritten signature in black ink, appearing to read 'John A. Morgan'.

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Head/Director of the [school or committee]

Link to Curriculog entry: <https://purdue.curriculog.com/proposal:33529/form>

## **CHE 68600 Chemical Engineering Experience in Teaching Spring 2025**

**Instructors:** Kendall Thomson

**Textbook:**

<https://engineering.purdue.edu/ChE/AboutUs/Publications/TeachingEng/index.html>

**Handbook description:**

The course consists of one hour per week seminar/workshop on teaching topics, plus teaching practice as a TA in the same semester. The course covers a brief introduction to teaching pedagogy, practical advice on running recitations, encouraging active learning, providing effective and efficient feedback, reflection and evaluation of performance.

**Course Objectives:**

- Provide an introduction to a basic pedagogical basis for teaching for the graduate students;
- Provide practical tips for TAs in running recitations, giving quality feedback during grading, etc.
- Help students reflect on, and improve, their teaching skills
- Prepare and inspire students for future careers in academia

**Learning Outcomes:**

After completing this course, the student should be able to...

- Be an effective teaching assistant in both undergraduate and graduate courses.
- Be able to run an effective recitation or laboratory class focusing on individual student needs.
- Understand the basic logistics of proctoring and grading exams and working with undergraduate graders for course homework assignments.
- Work effectively with class groups via an understanding of group dynamics.
- Apply current teaching strategies and active listening practices to enhance students' educational experience.

**Grading:**

Grading will be "satisfactory" or "unsatisfactory". Satisfactory performance will be based on student performance in the following:

- Active involvement in Monday Workshops (attendance required)
- Successful completion of seminar quizzes
- A final paper summarizing what each student has experienced from their first TA-ing assignment and providing advice for future TA students taking this course.

**Class Schedule** (Schedule and topics subject to change)

Seminar 1	Effective Recitations.	TBA
Seminar 2	Getting the Most Out of Brightspace.	TBA
Seminar 3	Grading (scoring) Homework and ests.	TBA
Seminar 4	Odds and Ends.	TBA
Seminar 5	Teaching Problem Solving Skills.	TBA
Seminar 6	Active Listening.	TBA
Seminar 7	Wrap-Up.	TBA