

ME 199 DES/SAE

Mechanical Science and Engineering Department

The ME 199 DES/SAE sequence is a sophomore elective course introduced to provide a hands-on design experience early in the curriculum. Students are allowed to choose their own project, which could be entrepreneurial in nature, or to participate in an interdisciplinary competition such as Formula SAE, Formula Electric SAE, Baja SAE, Shell Eco-Marathon urban concept or prototype, or I-Robotics.

Completion of three consecutive semesters may be used to satisfy 3 hours of Technical or MechSE elective credit requirement. In order to receive Technical/MechSE elective credit, students need to satisfy the following requirements:

- The sequence must be initiated no later than the 3rd semester of residence (except for transfer students, who must initiate the sequence no later than the 2nd semester of residence).
- Students must take ME 199 for 3 consecutive semesters (time off for co-op, internship or study abroad is permitted).
- Students must complete the course requirements for each semester
 - Class attendance
 - Meet sub-team of interest and receive project assignment from the team leader
 - Write 2 one-page reports: one in the beginning of the semester explaining the assigned project, and one at the end of the semester, summarizing what was accomplished in the project.
 - Grade is based on attendance, participation, contribution and effort (from team leader and peer evaluation)
- Final report guidelines:
 - A final report must be submitted to the ME 199 faculty after the completion of the third semester. The faculty will review the report and determine if student will receive Technical/MechSE elective credit. Projects without design and technical content will not be approved as Technical/MechSE elective credit.
 - This final design report should include CAD model screenshots, photos of physical parts and assemblies, engineering analysis (e.g. FEA, CFD, hand calcs etc) and a narrative description of the design project(s) completed during the 3 semester sequence.
 - Students have one semester to write the final report; the deadline for submission is the last day of classes of the following semester after completion of the ME 199 sequence.
 - Report format: 10-15 pages long, 12pt Times New Roman font used throughout the entire document, 1.5-spaced, 1" margin.
 - The design report must be submitted to the ME199 class instructor by email, or drop box if too large. You must include this completed form (page 2) as the first page of your report.

Students not meeting all of the above may use the ME 199 course work for free elective credit.

Petition to request technical or MechSE elective credit after completing the three-course ME 199 DES/SAE sequence

Student name: _____

UIN: _____ netid: _____

I request acceptance of the following curriculum modification:

Course to be modified (taken)	Section (SAE or DES)	Hours	UIUC requirement (Technical or MechSE elective)	UIUC Hours
ME 199		3		3

The attached report has been reviewed by the ME 199 faculty and approved for technical elective credit.

ME 199 Faculty (Print name)

Signature

Date

This request will only be accepted when submitted by the MechSE advisor.

MechSE Advisor
Stephanie Ott-Monsivais
Missy Biehl

Signature

Date

Dean's action:

Name

Signature

Date