

AME 491 – Undergraduate Design Projects – Formula SAE Project

Advisor: Yann Staelens – OHE 430B – (213) 740-7754 – staelens@usc.edu

Requirements needed to earn credit for AME 491:

Note, it is required that you be part of the USC Racing Team for at least one (1) semester before enrolling in AME 491. A requirement for earning credit is that you make significant contribution to the team by designing and building something that is useful for the current team or will be useful for many years to come. It will be difficult to accomplish this if you have not experienced what the team does or gotten your hands dirty and contributed in the USC Racing Shop (Baum Makerspace).

- **Participate!** Contribute to the design, build and testing of the Formula SAE car.
- **Tuesday Meetings: 5pm – 6.20pm in GFS 105**
 - Attendance required – sign in at the beginning of the meeting.
 - Stay informed and contribute to the discussion.
 - Prepare slides for a Tuesday meeting and show the team what you’re doing for your project.
- Throughout the semester, you need to:
 - **Complete a project** that will significantly contribute to this year’s Formula car or enhance the USC Racing Shop capabilities for future years.
 - This will require a hands-on effort in the USC Racing Shop; dress accordingly and complete **Lab Safety Training** before attempting to get your hands dirty.
 - **Document your work**; write a google docs page that serves as a useful reference and describes what you did, why you did it, how it was fabricated, and how to use the apparatus. This will be written directly to and stored on the team’s server.

Note: The USC Racing google drive system is the team’s knowledge base and will be used for many years to come. The page(s) you write should be very specific to what the USC Racing Team does; hence the content must be valuable to the team and not something anyone can find online (Google, Wikipedia, etc.)

- **Get a notebook**
 - Something rigid that can survive the shop. You will need this to log what you did throughout the semester.
- **Email the Program Manager** at scracer@usc.edu and ask to be placed on the team’s email distribution list.
- **Resources:**
 - <http://www.uscformulasae.com>
 - <https://www.sae.org/attend/student-events/formula-sae-knowledge>

If you “agree to the terms” listed above and want to be part of an amazing team while receiving credit for it , send an email to Susan (sath@usc.edu) or Chrissy (cfranks@usc.edu) and myself (staelens@usc.edu) with your full name and USC student ID# stating that you understand the requirements and would like to enroll in AME 491 – Formula SAE Projects. I will then reply-all and approve your D-clearance.