



v. Fa22 - 20220902

AME491 Undergraduate Design Projects – USC AeroDesign Team

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Requirements for earning credit in AME491:

Note: it is strongly recommended that you be a part of the AeroDesign Team for at least one (1) semester before enrolling in AME491. A requirement for earning credit is that you make a 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 requirement if you have not experienced what the team does or have not operated in and contributed to the ADT lab.

- **Participate!** Contribute to the design, construction and flight test efforts.
- **Monday Meetings:** 7pm in BHE 301 (enter from the exterior, east staircase)
 - Attendance required – sign in at the beginning of the meeting.
 - Stay informed and contribute to the discussion.
- **Weekly Sub-Team Meetings:** Tue, Wed, and/or Thu
 - Prepare slides for a meeting to show the team what you are doing (see below).
- Throughout the semester, you need to:
 - **Complete a project** that will significantly contribute to this year's plane or enhance the ADT lab capabilities for future years.
 - This will require a hands-on effort in the ADT lab; dress accordingly and complete **Lab Safety Training** before attempting to get your hands dirty.
 - **Document your work:** write a wiki 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 website.
 - Note: The ADT wiki system is the team's knowledge base. The page(s) you write should be incredibly specific on what ADT does. The content must be valuable to the team and not something anyone can find online; we already have Google (and Wikipedia) for that!
 - **Get a notebook:** something rigid that can survive the lab. You will need this to write notes on what you did throughout the semester. Or use an online version in Google Docs, Onenote, etc.
- **Email** the Program Manager at usc.adt@gmail.com and ask to be placed on the team email distribution list, if you haven't already done so.
- **Join** the ADT Slack workspace.

If you "agree to the terms" outlined above and want to enroll, send one email your AME academic advisor and CC me (byahut@usc.edu) stating that you understand the requirements. I will then reply-all and approve your D-Clearance.

Resources

| <https://aerodesign.usc.edu/>

| <http://www.aiaadbf.org/>