

AAE-451 Aircraft Design
Prototype Fabrication, Economic and Flight Test Plan
Preliminary Design Review (PDR)

Overall Schedule

Compile a list of all tasks to be accomplished by first flight. Schedule tasks to insure all tasks are completed on time. Tasks include parts ordering, the CDR, component testing, prototype fabrication and flight testing.

Economic Plan

Estimate costs to complete all component testing, prototype fabrication and testing. Estimate person-hours devoted to your design from start of the semester until the end of the course. Bring time cards up to date and summarize them. Be sure your projected costs are within budget.

Flight Test Plan

Develop a strategy for safely test flying your airplane (prior to official first flight) so that on the day of the official first flight your aircraft will successfully perform the mission. The strategy includes a schedule of flight testing, location of the flight test (e.g., outside, inside) and the objectives for each flight test (e.g., unpowered glide, straight line flight, turning flight). Remember you may not fly your aircraft before the Flight Readiness Review.