

AAE 451 Project Schedule: Fall 2006

Design of the High-Speed UAV

(Version 1.0 -8/24/06)

Aug 22, 2006, Tu	First class, Receive Mission Specification.
Aug 29, Tu	Individual Mission Evaluation due.
Aug 31, Th	Individual System Concept(s) due (individual concept sketches and description). Team Design Requirements & Objectives due.
Sept 5, Tu	Candidate Team Concepts defined.
Sept 7, Th	Team Concept Selection Document and Presentation due.
Begin weekly Quick Design Reviews (QDR) on Tuesday (4 presentations, 10 minutes long) and Preliminary Design Reviews (PDRs) on Thursday (4 presentations, 30 minutes long).	
Sept 12, Tu	Flight Control System Written Status Report Due. Project Plan Review (4 presentations, 10 minutes long).
Sept 14, Th	Vehicle Sizing PDR.
Sept 19, Tu	Aerodynamics 1 QDR (4 presentations, 10 minutes long)
Sept 21, Th	Propulsion 1 PDR (4 presentations, 30 minutes long)
Sept 26, Tu	Structures and Weights 1 QDR
Sept 28, Th	Aerodynamics 2 PDR. Individual Trade Study #1 due.
Oct 3, Tu	Propulsion 2 QDR.
Oct 5, Th	Dynamics and Control 1 PDR.
Oct 10, Tu	No class: October Break
Oct 12, Th	Structures and Weights 2 PDR, Individual Trade Study #2 due. Draft of Aerodynamics Chapter of final report due
Oct 17, Tu	Propulsion 3 QDR, Propulsion system selection completed. Draft of Structures and Weights Chapter of final report due
Oct 19, Th	Dynamics and Control 2 PDR. Parts Acquisition List due. Parts ordered (4:00 PM). Draft of Propulsion Chapter of final report due Peer Evaluation #1 due.

Oct 24, Tu Prototype Fabrication, Economic, & Test Plan QDR.
Draft of Dynamics and Control Chapter of final report due

Oct 26, Th Critical Design Review (CDR), (formal oral presentation, 50 minutes with question and answer period, 3 presentations in AM, 1 in PM), design frozen, no aircraft construction prior to this date, 21 days to construct flying prototype.

Oct 31, Tu Thiokol Final Design Report due

Nov 16, Th Flight Readiness Review (completed aircraft checked for flight safety and flight worthiness, Pilot inspection of aircraft).

Nov 21, Tu >>>> Out-door flight tests, First official flights <<<<<
McAllister Park in Lafayette (Open to the public).
Note this is the Tuesday before Thanksgiving vacation and attendance is required.

Dec 4-8 DEAD WEEK

Dec 5, Tu. Final Report Addendum: Lessons Learned and Vehicle Summary due

Dec 7, Th. Lessons Learned and Vehicle Summary Presentation (informal presentation, 40 minutes followed by a question and answer period). Peer Evaluation #2 due.

Dec 8, Fri. Aircraft and equipment secured. Course ends