

AAE451 Schedule: Fall 2008

Version 1.0 - 8/28/08

| Week | Tu (9:00AM) | (PDRs) | Th (1:30PM) | (QDRs) |
|------|-------------|--|-------------|--|
| 1 | 8/26/08 | First class. Receive Mission Specification. | 8/28/08 | Discuss schedule and deliverables. |
| 2 | 9/2/08 | Individual Mission Evaluation due. Form Teams. | 9/4/08 | Individual System Concept(s) due (individual concept sketches and description). Team Design Requirements & Objectives due. |
| 3 | 9/9/08 | Candidate Team Concepts defined. | 9/11/08 | Team Concept Selection Document and Presentation due. |

Begin weekly Preliminary Design Reviews (PDR) on Tuesday AM (4 presentations, 20 minutes long) and Quick Design Reviews (QDRs) on Thursday PM (4 presentations, 8 minutes long). Tuesday afternoons will be for presentation of supplementary materials by Professor Andrisani or for and team discussions.

| | | | | |
|----|----------|---|----------|--|
| 4 | 9/16/08 | Flight Control System Written Status Report Due. Vehicle Sizing PDR (4 presentations, 20 minutes long) | 9/18/08 | Project Plan Review (4 presentations, 8 minutes long). |
| 5 | 9/23/08 | Propulsion 1 PDR. | 9/25/08 | Structures and Weights 1 QDR. |
| 6 | 9/30/08 | Aerodynamics 1 PDR. Individual Trade Study #1 due. | 10/2/08 | Dynamics and Control 1 QDR (Flight Control, need doc) |
| 7 | 10/7/08 | Structures and Weight 2 PDR. | 10/9/08 | Propulsion 2 QDR. |
| 8 | 10/14/08 | October Break: No class. | 10/16/08 | Aerodynamics 2 QDR, Individual Trade Study #2 due. Draft of Propulsion Chapter of final report due. |
| 9 | 10/21/08 | Dynamics and Control 2 PDR. Parts Acquisition List due. Parts ordered (4:00 PM). Draft of Aerodynamics Chapter of final report due. | 10/23/08 | Prototype Fabrication, Economic, & Test Plan QDR. Draft of Structures and Weights Chapter of final report due. |
| 10 | 10/28/08 | Critical Design Review (CDR), (formal oral presentation, 50 minutes including 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. | 10/30/08 | Draft of Dynamics and Control Chapter of final report due. Peer Evaluation #1 due. |

Build Phase (3 weeks then flight test on Tuesday before Thanksgiving)

| | | | | |
|---------|----------|---|----------|---|
| 11 (B1) | 11/4/08 | Thiokol Final Design Report due. Build at ASL. | 11/6/08 | Build at ASL. |
| 12 (B2) | 11/11/08 | Build at ASL. | 11/13/08 | Build at ASL. |
| 13 (B3) | 11/18/08 | Build at ASL. | 11/20/08 | Flight Readiness Review (completed aircraft checked for flight safety and flight worthiness, Pilot inspection of aircraft). |
| 14 | 11/25/08 | >>>> In-door flight tests, First official flights. Attendance mandatory. <<<<<< (Open to the public). | 11/27/08 | Thanksgiving: No Class. |

Post flight finishing up

| | | | | |
|----|---------|--|----------|--|
| 15 | 12/2/08 | Think. | 12/4/08 | Think. |
| 16 | 12/9/08 | DEAD WEEK: Lessons Learned and Vehicle Summary Presentation (informal presentation, 20 minutes followed by a 10 minute question and answer period). Four presentations should be completed in the morning session. | 12/11/08 | DEAD WEEK: Final Report Addendum: Lessons Learned and Vehicle Summary due. Aircraft and equipment secured. Peer Evaluation #2 due. COURSE ENDS. (no final) |