

# ASE 174M

Spacecraft/Mission Design Laboratory

Spring      Summer      Fall      Year: \_\_\_\_\_

## Instructor:

This course contributes significantly to these ASE program outcomes:

- [1] The ability to apply knowledge of mathematics, physics, chemistry and engineering science to solve engineering problems (a).
- [2] The ability to identify, formulate, and solve problems in aerospace structures, air-breathing and rocket propulsion, flight dynamics, and flight control systems using modern engineering techniques and tools (e, k)
- [3] The ability to analyze and perform preliminary design of components of aerospace structures, air-breathing and rocket propulsion systems, and flight control systems using modern engineering techniques and tools (c, k)
- [4] The ability to work on a multi-disciplinary team to perform conceptual design of aircraft or spacecraft that will meet a set of mission requirements (c, d)
- [5] The ability to design and conduct experiments and analyze and interpret data (b)
- [6] The ability to communicate effectively in oral, written, and graphical form (g).
- [7] The ability to recognize the impact of engineering systems on the environment and society and an understanding of professional and ethical responsibility (f, h, j)

**Assignment** (circle one): Homework #\_\_\_ Exam #\_\_\_ Final Project Other

**If Other, explain:** \_\_\_\_\_

**Relevant outcomes:**            1      2      3      4      5      6      7

**Explanation:** \_\_\_\_\_

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**Relevant outcomes:**            1      2      3      4      5      6      7

**Explanation:** \_\_\_\_\_

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