

Ae 240: Planetary Entry
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Course Overview:

Ae240 provides an integrated overview of planetary entry, descent, and landing systems. The course content includes entry vehicle systems, entry flight mechanics and dynamics, hypersonic aerodynamics, aerothermodynamics and thermal protection systems, aerodynamic decelerators and landing systems, and case studies based on recent developments in robotic and human exploration. Four homework sets and a group project will be assigned. Homework assignments require a modest degree of computer programming. The group project integrates many of the analyses discussed in this course.