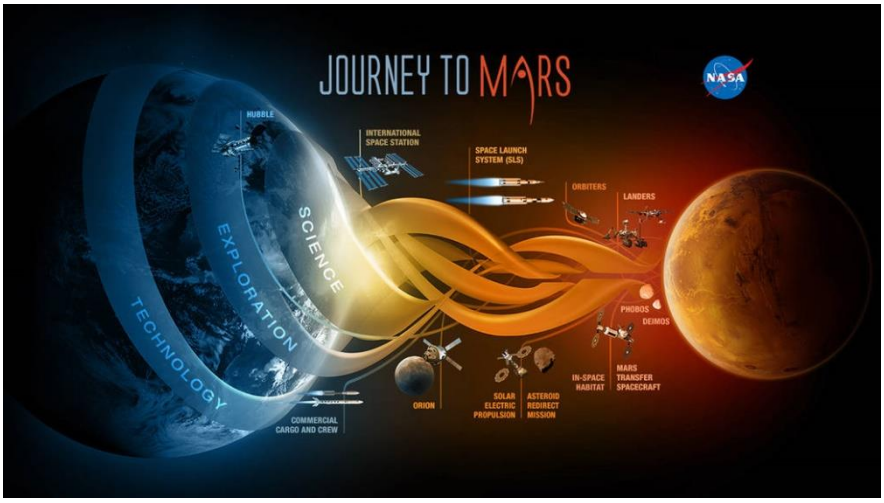
ASTRO
AEROSPACE TECHNOLOGY RESEARCH & OPERATIONS
TEXAS A&M ENGINEERING EXPERIMENT STATION

AEROSPACE ENGINEERING
TEXAS A&M UNIVERSITY

426 - SPACE SYSTEM DESIGN

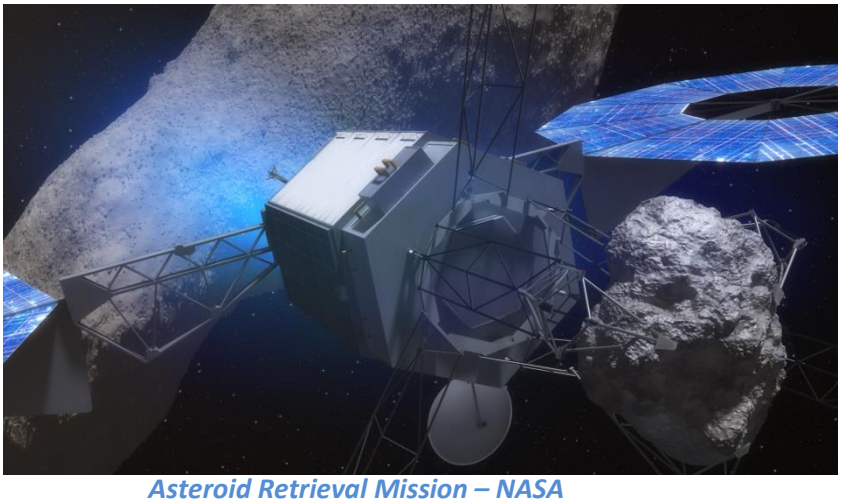
AERO 426 is a project oriented course which develops space system design skills. Students will learn the prevailing methods in modern space system design and apply their engineering knowledge towards a unique challenge - creating a VR space simulation engine.



Journey to Mars Roadmap – NASA

Lectures will introduce the students to the challenges of space system design including; the proper level of modeling and analysis for preliminary design purposes; how to use and create trade-off diagrams to make engineering decisions; non-technical design drivers (cost, safety, public policy…) and the technical issues concerning spacecraft mission design.

SpaceCRAFT - a virtual reality sandbox environment - aims to connect worldwide research institutions to improve development of space missions. This program will create a platform for all disciplines related to space missions to ensure proper functionality in a VR universe designed by Engineers while also allowing for high accuracy long-term analysis to ensure optimal designs.



Asteroid Retrieval Mission – NASA

Location: CSA 303

Time: MWF 9:10 - 10:00 AM

Mentors:

Dr. Greg Chamitoff
David Kanipe
Mauricio Coen
Robert Hogan