### Department
03 Mechanical, Automotive and Aeronautical Engineering

### Course title
Aerospace Student Competitions and Research Project

### Hours per week (SWS)
3

### Number of ECTS credits
5

### Course objective
The students will participate in a team project, which typically lead towards participating in international competitions for aerospace engineering students. Projects in the past and planned for the future are the NASA sponsored SEE (Simulation Exploration Experience 2016/2017) event, the AUVSI SUAS (Association for Unmanned Vehicle Systems International, Student Unmanned Aerial Systems) Competition, and other aerospace engineering projects.

### Prerequisites
none

### Recommended reading

### Teaching methods
Team Project, Laboratory Instruction, Student Workshop, Computer and Simulation

### Assessment methods

### Language of instruction
English

### Name of lecturer
Karl H. Siebold, Ph.D.

### Email
siebold@hm.edu

### Link
www.auvsi-suas.org  
www.exploresim.com

### Course content
- Project planning
- Systems Engineering
- Planning of resources
- Interpretation of request for proposals
- Interpretation of competition rules and/or collaboration agreements
- Report writing
- Test plan development
- Flight readiness reviews
- Creation of operating manuals and procedures
- Creation of safety manuals

### Remarks
Bachelor level project course, required for the aerospace bachelor degree program