Program of Study in Rotorcraft Systems Engineering Leading to a Master of Science in Engineering in Aerospace Engineering

The Department is pleased to announce that it has developed a Program of Study in Rotorcraft Systems Engineering Leading to a Master of Science in Engineering in Aerospace Engineering. This program is underway and currently has nineteen students participating in it. This Program of Study has been carefully crafted to address the needs of engineers in the rotorcraft community. The Department of Mechanical and Aerospace Engineering has collaborated with the Department of Industrial and Systems Engineering and Engineering Management, the Rotorcraft Systems Engineering and Simulation Center, and the U.S. Army Aviation community in the development of this Program of Study. Courses in the Program are taught in the Department of Mechanical and Aerospace Engineering and the Department of Industrial and Systems Engineering and Engineering Management.

The Program of Study is a thirty-six semester credit hour program. The courses in the program are listed in the following table.

Program of Study in Rotorcraft Systems Engineering Leading to a Master of Science in Engineering in Aerospace Engineering	**Semester Credit Hours**
Major	**24**
MAE 556 - Turbomachinery	3
MAE 580 – Aircraft Stability & Control	3
MAE 631 – Rotorcraft Design	3
MAE 635 – Aerospace Systems Engineering	3
ISE 638 – Reliability Engineering	3
MAE 657 – Helicopter Theory	3
ISE 670 – Integrated Product & Process Design	3
MAE 680 – Performance Flight Testing	3
Mathematics Minor	**6**
MAE 692 – Graduate Engineering Analysis I	3
ISE 690 – Statistical Methods for Engineers	3
Modeling and Simulation Minor	**6**
ISE 637 – Systems Modeling and Analysis	3
ISE 547 – Introduction to System Simulation	3
Other	**0**
MAE 684 – Rotorcraft Systems Seminar	0
Comprehensive Examination	0
	36

For more program information contact: Dr. Mark V. Bower, Chair, Department of Mechanical and Aerospace Engineering, at mbower@mae.uah.edu, 256-824-6154, or Dr. James Snider (MG, retired), Director, Rotorcraft Systems Engineering and Simulation Center, jsnider@eng.uah.edu, 256-824-6066.