New Course: AAE490
Aerospace Instrumentation Design-Build-Test

Spring 2014
Arrange Hours
Prof. Jim Garrison
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ARMS 3311

This special project course will expose students to the practice of design and qualification of aerospace electronic systems. Starting with a laboratory "breadboard" prototype of an airborne remote sensing instrument, the students will compete final electrical, mechanical and software interface designs to meet specifications to fly on the NASA GlobalHawk (GH) Unpiloted Aerial Vehicle (UAV). Students will prepare test plans to verify requirements compliance. A flight instrument will be built according to the student design and then delivered to NASA for testing and integration. Upon approval, it will be flown in an experimental campaign to study tropical storms. Selected students may have the opportunity to visit NASA Dryden to meet with technical staff, oversee installation of on the GH, and operate the instrument.

This course is intended for undergraduate students in AAE, ECE, AT and EET. It may also be appropriate to students in the sciences or other engineering disciplines, who use airborne platforms to conduct experimental work.

For more information about the NASA HS-3 Project:
Go to: http://tinyurl.com/napq943 or the QR code ->

This course is made possible through the generous support of Rockwell-Collins and Exelis.

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