AVIATION SCIENCES (AVS)

**AVS 4318 Avionics System Design (3)**
Cross-listed as ELC 4318
See ELC 4318 for course information.

**AVS 4321 Energy Economics (3)**
Cross-listed as ENV 4321
See ECO 4321 for course information.

**AVS 4323 The Environment and Economic Analysis (3)**
Cross-listed as ECO 4323, ENV 4323
See ENV 4323 for course information.

**AVS 4366 Remote Sensing (3)**
Cross-listed as BIO 4366, ENV 4366, GEO 4366
See GEO 4366 for course information.

**AVS 4485 Introduction to Geographic Information Systems (4)**
Cross-listed as ENV 4484, ENV 4485, GEO 4485
See GEO 4485 for course information.

**AVS 4487 Advanced GIS Analysis (4)**
Cross-listed as AVS 4387, ENV 4487, GEO 4487
See ENV 4487 for course information.

**AVS 5320 Instrumentation and Test Stand Laboratory (3)**
Pre-requisite(s): AVS 4305 and credit or concurrent enrollment in AVS 4320 and 4330
A laboratory-based course where students gain hands-on experience with (i) modern equipment used to measure air pollution levels; (ii) contemporary engine test equipment for both piston and turbine aircraft engines, including dynamos and exhaust emission analysis instrumentation; and (iii) the computer software and hardware to enable data collection and reduction via either data loggers and computer manipulation, or by direct computer data capture.

**AVS 5330 Development of Biofuels in Aviation (3)**
Pre-requisite(s): AVS 1312 (or its equivalent); CHE 1301 or AVS 4330 (or their equivalents)

**AVS 5368 Integrated Energy Resource Systems (3)**
Cross-listed as ENV 5368
See ENV 5368 for course information.

**AVS 5391 Measurement Methods and Data Analysis for Air Pollution (3)**
Cross-listed as ENV 5391
See ENV 5391 for course information.

**AVS 5393 Atmospheric Chemistry & Physics (3)**
Cross-listed as ENV 5393
See ENV 5393 for course information.

**AVS 5V99 Research for Master’s Thesis (1-6)**
Pre-requisite(s): Consent of instructor
Research, data analysis, writing, and oral defense of an approved master’s thesis. At least six hours of AVS 5V99 are required.