AVIATION SCIENCES (AVS)

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 dynamometers 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.