

# AV 112 : TECHNICALLY ADVANCED AIRCRAFT

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## Transcript title

Technically Advanced Aircraft

## Credits

3

## Grading mode

Standard letter grades

## Total contact hours

40

## Lecture hours

20

## Other hours

20

## Prerequisites with concurrency

AV 210 or AV 215.

## Course Description

Covers principles and operation of technologically advanced avionics systems in modern aircraft. Provides classroom discussion and hands-on training in programming and using electronic flight instruments, navigation radios, information systems, and technology safety/risk management.

## Course learning outcomes

1. Interpret and evaluate flight and navigation information displayed on the primary flight display and multi-function display.
2. Demonstrate ability to use electronic flight planning and information systems software and displays.
3. Describe functions and modes of basic autopilots and flight directors.
4. Identify electronic display type malfunctions, identify the source, and take appropriate corrective action.
5. Incorporate advanced technology risk assessment and management into flight planning tasks.

## Content outline

- GPS systems
- TAA and Electronic Instruments
- Electronic Navigation Principles
- Automated Flight Control
- Information Systems
- Electronic Flight Planning tools
- Advanced Avionics Risk Management

## Required materials

Requires textbook and/or online learning materials.