



# Aircraft Flight Testing ACCELERATED COURSES

Four flight test courses are offered in three-week, accelerated versions. For a given course, the same content covered in 48 contact hours of a 16-week semester is condensed into three weeks. Classes run 8 hours a day when the aircraft are flying. If the student is in the graduate program, the course will result in a letter grade and count toward the master's degree or graduate certificate. Students who are not admitted to the graduate program but simply wish to expand their knowledge, skills and abilities in Aircraft Flight Testing can earn continuous learning points.

The following table lists dates and locations for upcoming short courses:

COURSE	DATES	LOCATION
FTE 5701 Performance Flight Test	May 7–25, 2018	Eglin AFB, FL
FTE 5702 Stability & Control Flight Test	June 4–22, 2018	Patuxent River, MD
FTE 5704 Helicopter Flight Test	July 16–Aug. 3, 2018	Patuxent River, MD
FTE 5702 Stability & Control Flight Test	May 6–24, 2019	Eglin AFB, FL
FTE 5701 Performance Flight Test	June 3–21, 2019	Patuxent River, MD
FTE 5703 Avionics Flight Test	July 15–Aug. 2, 2019	Patuxent River, MD

**COSTS:** \$4,173 per course (2018 rate). These costs cover tuition and lab fees, but not textbooks.

## COURSE DESCRIPTIONS

### FTE 5701 Performance Flight Test (3-hour)

Examines flight test engineering techniques to determine airplane performance. Includes flight labs for data collections. Presents data analysis and interpretation methods, and uses airplane performance theory to develop the equations necessary to reduce flight test data taken at altitude to sea-level. Covers both propeller and jet aircraft.

### FTE 5702 Stability & Control Flight Test (3-hour)

Examines techniques to evaluate airplane stability and control by flight testing. Includes flight labs for flight test data collection. Presents methods for stick fixed and stick free extrapolation of stability neutral points and control characteristics. Also includes effects of high speed and transonic flight due to aircraft configuration.

### FTE 5703 Avionics Flight Test (3-hour)

Reviews current avionics systems for testing in flight. Includes flight labs to demonstrate testing methods and data collection. Also includes communications and navigation systems, sensor systems, avionics systems integration, human factors and radar for severe weather avoidance systems and tests to determine stability.

### FTE 5704 Helicopter Flight Test (3-hour)

Examines flight test engineering techniques to determine helicopter performance. Includes flight labs for data collection. Presents theory and methods for measuring hover, climb and level-flight performance. Addresses differences between airplane and helicopter flight testing.

### FOR MORE INFORMATION AND HOW TO APPLY:

[www.fit.edu](http://www.fit.edu)

### FLIGHT TEST ENGINEERING DEGREE PROGRAM INFORMATION:

[bit.ly/fit-fte](http://bit.ly/fit-fte)

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