



# SYSTEMS ENGINEERING

ESTABLISHED 2002

## Aviation Systems Engineering Master's Degree Program

Graduate School of Engineering  
& Applied Sciences (GSEAS)

Program Length: 2 Years  
Starts: Spring, Fall  
Curriculum #312

### Program Overview

Rev 1.1 Date 05.27.2015

The Aviation Systems Engineering Program provides graduates of the U.S. Naval Test Pilot School (USNTPS) the opportunity to obtain a Master of Science in Engineering Systems with an Aviation Systems specialization leading to a 5804P subspecialty code. The program is delivered by distance learning and builds upon the USNTPS academic and flight test instruction, with the student's USNTPS final flight test project and report (DTII) serving in lieu of a thesis, and will provide the advanced systems engineering knowledge, tools and skills necessary for the graduate to be successful as a class desk systems engineer in a Naval Aviation Systems Command (NAVAIR) mission billet.

Courses are delivered primarily in a synchronous format over the Internet using Blackboard Collaborate, a web-conferencing academic tool with an occasional onsite or asynchronous format. Class will be conducted in a three-hour continuous session (day/time TBD). To use Blackboard Collaborate, students need Internet access and a PC microphone. A PC camera is optional. No special software is required for Blackboard Collaborate, which is compatible with the Navy/Marine Corps Intranet.





### Degree

Graduates of this program will earn a Master of Science in Engineering Systems (MSES) degree with an Aviation Systems specialization. To be considered for this degree, a student must meet the degree requirements and complete all the requirements of the curriculum.

#### Prerequisites:

- Baccalaureate Degree in Engineering or a related science or technology field
- GPA of 2.2 or better
- Successful completion of a calculus course
- Graduate of the U.S. Naval Test Pilot School (USNTPS)

### Eligibility

Entrance into this program is restricted to graduates of the U.S. Naval Test Pilot School (USNTPS) program, currently a 48-week program. All entrants will be Board selected by NAVAIR and the Director of USNTPS in coordination with the NPS program academic team. All nominees will be instructed to apply for the program through the NPS online admissions site and to send official transcripts from all undergraduate and graduate institutions attended plus USNTPS records for determination of academic acceptance.

Per OPNAVINST 1520.23C, a Navy officer will incur a 3 year service obligation upon completion or withdrawal from the Master of Aviation Systems Engineering Program.

### Tuition

NPS is mission funded for qualified active duty Navy and Marine Corps officers. Students or command representatives are expected to purchase their own books. All others will need to be sponsored and funded by their parent commands. Please contact the tuition-collection POC, [CED3Bursar@nps.edu](mailto:CED3Bursar@nps.edu), regarding tuition and payment information.

### Curriculum

The program is designed to build upon the USNTPS academic instruction and final flight test project and report. Students are given 12 quarter-hours of transfer credit (4 at the 3000-level and 8 at the 4000-level) with 10 total credits being counted toward the MSES degree requirement for the USNTPS academic instruction and the USNTPS final flight test project and report (DTII) serves in lieu of a thesis.

The 312 program meets the MSES degree requirements through an approved course of study requiring:

- Eight courses delivered by distance learning which include four systems engineering fundamentals and methods core courses (31 total credit hours).
- Award of 10 credit hours for USNTPS instruction from transfer credits equivalent to NPS courses (SE3303, SE4353, and SE4115).
- Submission of Developmental Test – II (DTII) student final flight test project from USNTPS for academic review and approval as the thesis

### Contact Information

For additional information specific to the program:

Program Officer,  
Ron Carlson, at  
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(301)757-9743

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## For more information & to apply go to:

[http://www.nps.edu/Academics/DL/DLPrograms/Programs/degProgs\\_312ASE\\_TPS.html](http://www.nps.edu/Academics/DL/DLPrograms/Programs/degProgs_312ASE_TPS.html)

