Aerospace Engineering

Graduate students in the Aerospace Engineering program focus on aircraft and space systems design, analysis, and manufacturing. Students can select course offerings and research programs in aerodynamics and applied aerodynamics; aerospace propulsion; computational fluid dynamics; dynamics and design of spacecraft and space systems; flight dynamics and control; and multifunctional materials and smart structures. Sub-areas include acoustics, sprays, composite materials, reactive and multiphase flows, stability, and transition to turbulence.

Master's Degree Requirements
The thesis-option M.S. degree program in aerospace engineering requires 21 hours of course credit and nine hours of thesis research. The non-thesis M.S. degree requires 27 hours of course credit and a three credit-hour project and is offered on campus as well as off campus, through distance education.

Ph.D. Degree Requirements
A minimum of 72 hours of credit are required to obtain the Ph.D. degree. A direct path to the Ph.D. from the B.S. is also available with which the student is granted the M.S. degree “enroute” to the Ph.D. The enroute Ph.D. (direct to Ph.D. path) requires a minimum of 3.5 undergraduate GPA.

Student Financial Support
Financial aid is offered to all admitted Ph.D. students.

More Information
Aerospace Engineering Program Website (https://www.mae.ncsu.edu/academics/graduate-programs/#aerospace-engineering)

Admission Requirements
An applicant to the master's program must be a graduate of an accredited undergraduate program with a B.S. degree in either mechanical or aerospace engineering. Graduates of other accredited programs in engineering, physical sciences and mathematics may be considered but may be required to make up undergraduate deficiencies without graduate credit. Provisional admissions, as well as exceptions, are sometimes granted under special circumstances. The most qualified applicants are accepted first. Applicants to the Ph.D. program must have met the M.S. admission requirements and additionally must satisfy the Ph.D. admissions requirements. Applicants to the online, distance education M.S. program in mechanical or aerospace engineering are not required to take the GRE exam.

Applicant Information
Aerospace Engineering (PhD)
  - Delivery Method: On Campus
  - Entrance Exam: None
  - Interview Required: None

Aerospace Engineering (MEd)
  - Delivery Method: On Campus, Online, Hybrid
  - Entrance Exam: None
  - Interview Required: None

Degrees
  - Aerospace Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/aerospace-engineering/aerospace-engineering-ms/)
  - Aerospace Engineering (PhD) (http://catalog.ncsu.edu/graduate/engineering/aerospace-engineering/aerospace-engineering-phd/)
  - Aerospace Engineering (Minor) (http://catalog.ncsu.edu/graduate/engineering/aerospace-engineering/aerospace-engineering-minor/)

Faculty
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Farhan Saifuddin Gandhi
Tasnim Hassan
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