

AEROSPACE ENGINEERING

Learning Outcomes

Master of Engineering (M.Eng.)

1. Graduates will be able to demonstrate an understanding of advanced core principles and methods from selected sub-fields of Aerospace Engineering at a depth appropriate with their course of study.
2. Graduates will be able to analyze and synthesize knowledge within the field of Aerospace Engineering to address a complex problem of practical relevance.
3. Graduates will be able to apply their knowledge of selected sub-fields of Aerospace Engineering to formulate and solve engineering problems.
4. Graduates will be able to demonstrate high level of proficiency in oral and written communication.
5. Graduates will be able to demonstrate an understanding of, and a commitment to, the standards for scholarship and research integrity.

Master of Science (M.S.)

1. Graduates will be able to demonstrate an understanding of advanced core principles and methods from selected sub-fields of Aerospace Engineering at a depth appropriate with their course of study.
2. Graduates will be able to analyze and synthesize knowledge within the field of Aerospace Engineering to extend existing knowledge through a research experience.
3. Graduates will be able to apply their knowledge of selected sub-fields of Aerospace Engineering to formulate and solve engineering problems.
4. Graduates will be able to demonstrate high level of proficiency in oral and written communication.
5. Graduates will be able to demonstrate an understanding of, and a commitment to, the standards for scholarship and research integrity.

Doctor of Philosophy (Ph.D.)

1. Graduates will be able to demonstrate an understanding of advanced core principles and methods as well as modern research findings from different sub-fields of Aerospace Engineering at a depth appropriate for a Ph.D. candidate.
2. Graduates will be able to demonstrate the ability to analyze and synthesize appropriate literature, to critically review their work in context of the literature, and to formulate and defend conclusions based on their research that represent new scholarly findings.
3. Graduates will be able to apply their knowledge of selected sub-fields of Aerospace Engineering in formulating and executing a research plan.
4. Graduates will be able to demonstrate high level of proficiency in oral and written communication.
5. Graduates will be able to demonstrate an understanding of, and a commitment to, the standards for scholarship and research integrity.