Bachelor of Science to MS or ME in Aerospace Engineering Fast Track

About This Program

The Bachelor of Science in Aerospace Engineering to Master of Science or Master of Engineering in Aerospace Engineering Fast Track enables outstanding senior undergraduate Aerospace Engineering students to receive dual undergraduate/ graduate course credit for six or nine hours of coursework. These designated graduate courses satisfy both bachelor's and master's degree requirements. This program presentation includes both undergraduate and graduate requirements. The undergraduate degree will be conferred immediately upon completion of the undergraduate degree requirements.

ASSOCIATED PROGRAMS

For detailed information about the programs associated with this Fast Track, refer to their individual degree pages.

Aerospace Engineering BS

Aerospace Engineering MS

Aerospace Engineering ME

Admissions Criteria

An interested undergraduate student should apply to the program when within 30 hours of completing the mechanical engineering bachelor's degree. The student must have completed at least 30 hours at UT Arlington, achieving a GPA of a least 3.0 in those courses, and have an overall GPA of 3.0 or better in all college courses. Additionally, the student must meet the following requirements.

- Complete MAE 3302, MAE 3303, MAE 3315, and MAE 3306 with a minimum GPA of 3.3 in these courses, and a grade of B or better in each course.

For automatic admission to the graduate program the student must meet the following requirements.

- Complete a minimum of 6 and maximum of 9 hours of graduate coursework from the list of core courses for MSAE students. AE 5311 may replace MAE 4314 and up to two AE master's core courses, other than AE 5311 may replace technical electives.
- Earn B or better in all graduate courses intended for both undergraduate and graduate credit.
- Maintain UTA undergraduate cumulative GPA of 3.0 or above.

Curriculum

Aerospace Engineering Foundations		
Complete the UTA Core curriculum and BSAE pre-professional program per catalog.		86
Aerospace Engineering Professional Program (Specialization)		
MAE 3181	MATERIALS AND STRUCTURES LAB	1
MAE 3182	AERODYNAMICS AND FLUIDS LAB	1
MAE 3185	INTRODUCTION TO MECHATRONICS	1
MAE 3302	INCOMPRESSIBLE AERODYNAMICS [1]	3
MAE 3303	COMPRESSIBLE FLOW [1]	3
MAE 3304	ASTRONAUTICS I	3
MAE 3405	FLIGHT DYNAMICS	4
MAE 3306	FLIGHT PERFORMANCE, STABILITY & CONTROL [1]	3
MAE 3315	AEROSPACE STRUCTURAL STATICS [1]	3
MAE 3324	STRUCTURE & MECHANICAL BEHAVIOR OF MATERIALS	3
MAE 4310	INTRODUCTION TO AUTOMATIC CONTROL	3
MAE 4314	MECHANICAL VIBRATIONS	3
or AE 5311	STRUCTURAL DYNAMICS	
MAE 4321	AEROSPACE PROPULSION	3
MAE 4350	AEROSPACE VEHICLE DESIGN I	3
MAE 4151	AEROSPACE VEHICLE DESIGN II	1
Technical Electives		6

Select up to one 3000/4000-level course in engineering, science, or mathematics with prior approval of advisor.	
Select up to two AE masters core courses (except AE 5311) [2]	
Masters programs in Aerospace Engineering	
Complete requirements for Master of Science or Master of Engineering in Aerospace Engineering per catalog.	21
Total Hours	**151**

[1] For admission to the fast track, students must complete these with a minimum cumulative GPA of 3.3 and a grade of B or better in each course.

[2] Students will complete a minimum of 6 and maximum of 9 hours of graduate coursework from the list of core courses for MSAE students. AE 5311 may replace MAE 4314 and up to two AE master's core courses, other than AE 5311, may replace technical electives.

Program Completion

- Complete a minimum of 6 and maximum of 9 hours of graduate coursework from the list of core courses for MSAE students. AE 5311 may replace MAE 4314 and up to two AE master's core courses, other than AE 5311, may replace technical electives.
- Earn B or better in all graduate courses intended for both undergraduate and graduate credit.
- Maintain UTA undergraduate cumulative GPA of 3.0 or above.

CONTINUATION

If at any time an undergraduate fast track student falls below the 3.000 GPA requirements or earns a grade below B in a graduate course intended for both undergraduate and graduate credit, the student will be obliged to leave the program immediately and will not be allowed to take additional graduate courses as an undergraduate. If a student does not complete at least two graduate courses with B or better, any graduate credits earned with a grade of C or better will be applied only to the undergraduate degree. Graduate courses used for credit in the undergraduate program cannot be applied towards a graduate degree.

BENEFITS

A student who successfully completes the BS fast track will be automatically admitted to graduate study. The student will not be required to take the Graduate Record Examination, complete an application for graduate admission, or pay an application fee. For more details about the specifics of the fast track program, contact the undergraduate advisor or graduate advisor.

COURSE ENROLLMENT CLEARANCE

Students must obtain clearance each semester from the Graduate Advisor and Undergraduate Advisor for all graduate courses that will be used to satisfy undergraduate degree requirements.

TIME LIMIT TO BEGIN GRADUATE STUDIES

A student may take off one long semester plus a summer after receiving the undergraduate degree before starting as a graduate student. An application for graduate admission must be completed and approved before post-baccalaureate studies can begin. A student returning after a longer delay will have to apply as a regular student, completing a full application, paying all fees and meeting all admission requirements.

Advising Resources

First time in college students meet with engineering advisors in the UAEC (UAECengineering@uta.edu). Transfer students are advised prior to New Maverick Orientation by the department. Students, please read all student emails carefully and consult the department advising webpage for additional contact information and answers to common questions.

Location:

204 Woolf Hall

Email:

maeundergrad@uta.edu

Phone:

817-272-2561

Web:

Additional Advising Information (https://www.uta.edu/academics/schools-colleges/engineering/academics/departments/mechanical-aerospace/students/ugadvising/)