

Bachelor of Science to Master of Science in Industrial Engineering Fast Track

About This Program

Bachelor of Science in Industrial Engineering to Master of Science in Industrial Engineering Fast Track enables outstanding UT Arlington senior undergraduate students in Industrial Engineering to receive dual undergraduate / graduate course credit for six credit 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.

Industrial Engineering BS (<https://catalog.uta.edu/archives/2025-2026/engineering/industrial/undergraduate/industrial-engineering-bs/>)

Industrial Engineering MS

Admissions Criteria

An interested undergraduate student should apply to the program when within 45 hours of completing the industrial 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. The student must not have completed more than one technical elective. Additionally, the student must meet the following requirements.

- Complete IE 3314, IE 4303, and IE 4315 with a minimum GPA of 3.3 in these courses.

For automatic admission to the graduate program, the following requirements must be met.

- Complete six credit hours of graduate coursework from the following list of courses for MSIE students.
 - IE 5314
 - IE 5318
 - IE 5323
 - IE 5335
 - IE 5351
 - IE 5378
 - IE 5379
- 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

Industrial Engineering Foundations

Complete the UTA Core curriculum and BSIE pre-professional program per catalog. 77

Industrial Engineering Professional Program (Specialization)

IE 3314	ENGINEERING RESEARCH METHODS ¹	3
IE 3343	METRICS AND MEASUREMENT	3
IE 4303	PRODUCTION AND INVENTORY CONTROL ¹	3
IE 4308	QUALITY SYSTEMS	3
IE 4315	OPERATIONS RESEARCH II ¹	3
IE 4318	ENTERPRISE DESIGN	3
IE 4322	SIMULATION OF COMPLEX SYSTEMS	3
IE 4325	AUTOMATION AND ROBOTICS FOR SERVICE AND MANUFACTURING SYSTEMS	3
IE 4339	MANUFACTURING PROCESS & SYSTEM ANALYSIS	3
IE 4340	ENGINEERING PROJECT MANAGEMENT	3
IE 4343	FACILITIES PLANNING AND DESIGN	3
IE 4344	HUMAN FACTORS ENGINEERING AND COMPLEX SYSTEMS	3
IE 4345	DECISION ANALYSIS IN SYSTEM DESIGN	3
IE 4350	INDUSTRIAL AND SYSTEMS ENGINEERING CAPSTONE DESIGN	3

Technical Electives	9
Select one 3000/4000-level course in engineering, science, or mathematics with prior approval of advisor.	
Select two IE masters courses with prior approval from advisor.	
Masters programs in Industrial Engineering	
Complete requirements for Master of Science or Master of Engineering in Industrial Engineering per catalog.	24
Total Hours	152

¹ For admission to the fast track, students must complete these with a minimum cumulative GPA of 3.3.

Program Completion

CONTINUATION

If at any time an undergraduate fast track student falls below the 3.00 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

Location:

325 Woolf Hall

Email:

IEUGAdvising@uta.edu

Phone:

817-272-3092

Web:

Undergraduate Advising Information