

TECHNOLOGY - M.TECH.

College of Aeronautics and Engineering
 Aeronautics and Technology Building
 Kent Campus
 330-672-2892
 cae@kent.edu
 www.kent.edu/cae

Description

The Master of Technology degree offers a curriculum that provides students with advanced technical and management knowledge and skills that meet the needs of the technical workforce in industry and business. The program allows students flexibility in course selection to meet the diverse demands of careers in rapidly-changing fields in business, engineering and technology.

The program offers coursework in a variety of areas, including aeronautics/aviation, applied technology, computer engineering technology, computer technology, construction management, engineering and technology management, manufacturing systems/mechanical engineering technology/mechatronics, quality systems and radiation processing.

Fully Offered At:

- Kent Campus

Admission Requirements

- Bachelor's degree from an accredited college or university¹ for unconditional admissions
- Minimum 3.000 undergraduate GPA on a 4.000 point scale¹ for unconditional admissions
- Official transcript(s)
- Goal statement (one page) describing applicant's background, interests, and goals and how this program will help to achieve those goal
- Three letters of recommendation²
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
 - Minimum 550 TOEFL PBT score (paper-based version)
 - Minimum 79 TOEFL IBT score (Internet-based version)
 - Minimum 77 MELAB score
 - Minimum 6.5 IELTS score
 - Minimum 58 PTE score

An admissions committee of the College of Aeronautics and Engineering graduate faculty review all applications. Admission will be considered by examination of the applicant's background on an individual basis. Applicants with deficiencies may be admitted conditionally, which may include a requirement for completion of appropriate undergraduate coursework that will not count toward the master's degree.

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

- ¹ Applicants with an undergraduate degree in an approved science or technology related discipline, and who have a minimum composite undergraduate 3.000 GPA, will be admitted unconditionally. In exceptional cases, an applicant without a technical degree or with a composite GPA below 3.000 may be admitted, conditionally or unconditionally, based on strong letters of recommendation or significant experience related to the intended area of study. These applicants should submit any additional information that may assist the admissions committee in assessing their academic, technical or professional background and abilities. The additional information may include a résumé or professional portfolio summarizing any relevant technical competencies, professional experience, and any academic and professional achievements in areas related to the applicant's intended studies.
- ² The letters should come from an individual familiar with the applicant's academic or professional background and abilities. The letters should attest to the applicant's potential to complete graduate work successfully. Letters of recommendation from persons who are experienced professionals in the applicant's intended field of study or in a closely related area are acceptable. Recommendations from former or current professors are preferred.

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply engineering and technology management principles and practices.
2. Demonstrate knowledge of planning, organizing, decision-making and management of technology and complex systems.
3. Demonstrate the ability to apply problem solving and creative thinking skills in technical and interdisciplinary settings.
4. Demonstrate knowledge of the principles, practices and application of personal and professional ethics and conduct that arise in business, engineering and applied technology environments.
5. Understand and apply research methods, research development, research analysis and research implementation in engineering and technology-related areas.
6. Demonstrate knowledge and research design, statistical analysis and the development and implementation of applied engineering and technology in various engineering, science and technology venues.

Program Requirements

Code	Title	Credit Hours
Major Requirements		
TECH 60000	PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT	3
TECH 60001	QUANTITATIVE METHODS IN TECHNOLOGY	3
TECH 60078	RESEARCH METHODS IN TECHNOLOGY	3
TECH 67010	ETHICS, TECHNOLOGY AND THE ENVIRONMENT	3
Technology (TECH) Electives (60000 level) ¹		18
Technology (TECH) Electives (50000 or 60000 level) ¹		3
Minimum Total Credit Hours:		33

¹ Maximum 4 credit hours of graduate workshop courses and maximum 9 credit hours of graduate individual investigation courses may be applied toward the degree. Any exceptions must be approved by the dean of the College of Aeronautics and Engineering.