TECHNOLOGY - M.TEC.

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

Description
The Master of Technology degree program 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
An admissions committee of the College of Applied Engineering Sustainability and Technology Graduate Faculty will 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. A baccalaureate from an accredited college or university is required. Applicants with an undergraduate degree in an approved science or technology related discipline, and who have a 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 resume or professional portfolio summarizing any relevant technical competencies, professional experience, and any academic and professional achievements in areas related to their intended studies.

Each applicant must submit three letters of recommendation. 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. In addition, each applicant must submit a one-page statement describing his/her background, interests, and goals, and how this program will help to achieve those goals.

English Language Proficiency Requirements for International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 550 TOEFL score (79 on the Internet-based version), minimum 77 MELAB score, minimum 6.5 IELTS score or minimum 58 PTE Academic score. For more information on international admission, visit the Office of Global Education’s admission website. Effective spring 2018.

Please refer to the university policy for graduate admission.

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
[AR-MTEC-TECH]

Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>TECH 57010</td>
<td>ETHICS, TECHNOLOGY AND THE ENVIRONMENT</td>
<td>3</td>
</tr>
<tr>
<td>TECH 60000</td>
<td>PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT</td>
<td>3</td>
</tr>
<tr>
<td>TECH 60001</td>
<td>QUANTITATIVE METHODS IN TECHNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>TECH 60078</td>
<td>RESEARCH METHODS IN TECHNOLOGY</td>
<td>3</td>
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Technology Electives (TECH 50000 or 60000 level) (of which 18 credit hours must be at the 60000-level) 21

Minimum Total Credit Hours: 33

1 Maximum of 4 graduate workshop credit hours may be used toward graduation. Any exceptions must be approved by the dean of the College of Applied Engineering, Sustainability and Technology. A maximum of 9 credit hours from graduate individual investigation courses may be applied toward graduate requirements.