AEROSPACE ENGINEERING - M.S.

College of Aeronautics and Engineering
www.kent.edu/cae

Contact Information
- Program Coordinator: D. Blake Stringer | Stephanie Fussell | caegraduatestudies@kent.edu
  330-672-2892
- Speak with an Admissions Counselor (gradadmissions@kent.edu)

Fully Offered
- Kent Campus

Admission Terms
- Fall
- Spring
- Summer

Examples of Possible Careers*
Aerospace engineers
- 2.8% slower than the average
- 66,400 number of jobs
- $118,610 potential earnings

Architectural and engineering managers
- 2.6% slower than the average
- 198,100 number of jobs
- $149,530 potential earnings

Avionics technicians
- 4.4% about as fast as the average
- 22,800 number of jobs
- $67,840 potential earnings

Engineering teachers, postsecondary
- 8.6% much faster than the average
- 44,600 number of jobs
- $103,600 potential earnings

Additional Careers
- Research

Description
The Master of Science degree in Aerospace Engineering provides an advanced theoretical and/or research-oriented curriculum with significant depth in aerospace-specific disciplines, beyond the general fundamentals of the engineering bachelor’s degree.

Admission Requirements
- Bachelor’s degree in aerospace engineering or a closely related area from an accredited college or university, for unconditional admissions.
- Minimum 3.000 undergraduate GPA (on a 4.000 point scale) for unconditional admissions.
- Official transcript(s)
- Goal Statement
- Three letters of recommendation
- 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
  - Minimum 100 Duolingo test score

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

Program Learning Outcomes
Graduates of this program will be able to:
1. Conduct literature searches, comprehend advanced research materials and uncover connections between related work.
2. Perform research, discovery and integration by applying advanced knowledge of aerospace engineering.
3. Communicate problems and solutions in aerospace engineering clearly, both verbally and in writing.

Program Requirements
Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGR 61091</td>
<td>GRADUATE SEMINAR</td>
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<td>ENGR 65098</td>
<td>RESEARCH</td>
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<td>Mathematics Elective, choose from the following:</td>
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<tr>
<td>MATH 50015</td>
<td>APPLIED STATISTICS</td>
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<td>MATH 52011</td>
<td>MATHEMATICAL OPTIMIZATION</td>
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<tr>
<td>MATH 52031</td>
<td>MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS</td>
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<td>MATH 52045</td>
<td>PARTIAL DIFFERENTIAL EQUATIONS</td>
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<tr>
<td>MATH 52201</td>
<td>NUMERICAL COMPUTING I</td>
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<tr>
<td>MATH 52202</td>
<td>NUMERICAL COMPUTING II</td>
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Engineering-Focus Electives, choose one course from three focus areas:
- Astronautics

*Note
Source of occupation titles and labor data is from the U.S. Bureau of Labor Statistics’ Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.
Students selecting the thesis option must successfully defend their research thesis in a public setting before the thesis committee. Upon approval of the thesis topic, the student is required to register continuously for ENGR 65199 each semester for a total of 6 credit hours. A student who has completed the required 6 credit hours of ENGR 65199 but has not finished the thesis is expected, thereafter, to register continuously for ENGR 65299 each semester until all degree requirements are met. No more than 6 credit hours of ENGR 65199 may be counted toward completion of degree requirements. Credit hours earned in ENGR 65299 do not, under any circumstances, count toward the degree.