This roadmap is a recommended semester-by-semester plan of study for this major. However, courses and milestones designated as critical (in boldface and shaded areas) must be completed in the semester listed to ensure a timely graduation.

<table>
<thead>
<tr>
<th>Semester One: [16 Credit Hours]</th>
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<tbody>
<tr>
<td>MATH 11010 Algebra for Calculus</td>
<td>3</td>
<td>Upper Division</td>
<td>Min. Grade</td>
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<tr>
<td>GEOG 17063 World Geography</td>
<td>3</td>
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<tr>
<td>TECH 10001 Information Technology</td>
<td>3</td>
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<tr>
<td>TECH 15000 Introduction to Aeronautics</td>
<td>3</td>
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<tr>
<td>US 10097 Destination Kent State: FYE</td>
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<td>Kent Core Requirement</td>
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<th>Semester Two: [16 Credit Hours]</th>
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<tr>
<td>MATH 11022 Trigonometry</td>
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<td>TECH 13580 Engineering Graphics I</td>
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<tr>
<td>TECH 15740 Elements of Flight Theory</td>
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<tr>
<td>TECH 20002 Materials and Processes</td>
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<table>
<thead>
<tr>
<th>Semester Three: [16 Credit Hours]</th>
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<tr>
<td>MATH 11012 Intuitive Calculus</td>
<td>3</td>
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<tr>
<td>PHY 13011 College Physics I</td>
<td>2</td>
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<tr>
<td>PHY 13021 General College Physics Laboratory I</td>
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<tr>
<td>ECON 22060 Principles of Microeconomics</td>
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<tr>
<td>TECH 21021 Survey of Electricity and Electronics</td>
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<td>TECH 25250 Elements of Aviation Weather</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Semester Four: [15 Credit Hours]</th>
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<tr>
<td>PHY 13012 College Physics II</td>
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<tr>
<td>PHY 13022 General College Physics Lab II</td>
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<tr>
<td>ECON 22061 Principles of Macroeconomics</td>
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<td>ENG 20002 Introduction to Technical Writing</td>
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<td>Kent Core Requirement</td>
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<thead>
<tr>
<th>Semester Five: [15 Credit Hours]</th>
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<tr>
<td>TECH 35020 Aircraft Propulsion Systems</td>
<td>3</td>
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<td>TECH 35340 Airport Management</td>
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<tr>
<td>TECH 35341 Air Transportation Systems</td>
<td>3</td>
<td></td>
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<tr>
<td>TECH 35150 Aircraft Structures</td>
<td>3</td>
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<td>Kent Core Requirement</td>
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<table>
<thead>
<tr>
<th>Semester Six: [15 Credit Hours]</th>
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<tbody>
<tr>
<td>COMM 15000 Introduction to Human Communication</td>
<td>3</td>
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<tr>
<td>TECH 33033 Hydraulics and Pneumatics</td>
<td>3</td>
<td></td>
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<tr>
<td>TECH 35040 Aircraft Systems I</td>
<td>3</td>
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<tr>
<td>TECH 35342 Air Traffic Control</td>
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<tr>
<td>TECH 45130 Physiology and Human Factors</td>
<td>3</td>
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</table>
Critical requirements are boldface in shaded areas

<table>
<thead>
<tr>
<th>Course Subject and Title</th>
<th>Credit Hours</th>
<th>Upper Division</th>
<th>Min. Grade</th>
<th>Important Notes</th>
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</thead>
<tbody>
<tr>
<td><strong>Semester Seven: [15 Credit Hours]</strong></td>
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<tr>
<td>TECH 45030 Aircrafts Systems II</td>
<td>3</td>
<td>◼</td>
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<td>Fulfills writing-intensive course requirement; see note below</td>
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<tr>
<td>TECH 45150 Applied Flight Dynamics I</td>
<td>3</td>
<td>◼</td>
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<tr>
<td>TECH 45250 Aviation Law and Safety</td>
<td>3</td>
<td>◼</td>
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<tr>
<td>TECH 45350 Avionics</td>
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<td>◼</td>
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<tr>
<td>General Elective (lower or upper division)</td>
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<td></td>
<td>Should fulfill domestic diversity requirement if not satisfied earlier</td>
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<tr>
<td><strong>Semester Eight: [16 Credit Hours]</strong></td>
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<tr>
<td>TECH 45291 Aerospace Senior Seminar</td>
<td>1</td>
<td>◼</td>
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<td>Offered in spring only</td>
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<tr>
<td>TECH 45791 Aviation Security and Policy Seminar</td>
<td>3</td>
<td>◼</td>
<td></td>
<td>Fulfills writing-intensive course requirement; see note below; offered in spring only</td>
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<tr>
<td>General Electives (lower or upper division)</td>
<td>12</td>
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<td>Should fulfill domestic diversity requirement if not satisfied earlier</td>
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**Graduation Requirements Summary:**

<table>
<thead>
<tr>
<th>Minimum Total Hours</th>
<th>Minimum Upper-Division Hours</th>
<th>Minimum Kent Core Hours</th>
<th>Diversity Course Global / Domestic</th>
<th>Writing-Intensive</th>
<th>Minimum Major GPA</th>
<th>Overall GPA</th>
</tr>
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<tbody>
<tr>
<td>124</td>
<td>39</td>
<td>36</td>
<td>GEOG 17063 / Kent Core or General Elective</td>
<td>TECH 45030 or TECH 45791</td>
<td>2.25</td>
<td>2.00</td>
</tr>
</tbody>
</table>

**Kent Core Summary**

<table>
<thead>
<tr>
<th>Kent Core Categories</th>
<th>Important Notes</th>
<th>Remaining Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional (6 credit hours)</td>
<td>Fulfilled in this major with ECON 22061, COMM 15000</td>
<td>0</td>
</tr>
<tr>
<td>Basic Sciences (6-7 credit hours)</td>
<td>Fulfilled in this major with PHY 13011, PHY 13012, PHY 13021 and PHY 13022</td>
<td>0</td>
</tr>
<tr>
<td>Composition (6-8 credit hours)</td>
<td>Enrollment based on placement test</td>
<td>6-8</td>
</tr>
<tr>
<td>Humanities and Fine Arts (9 credit hours)</td>
<td>May fulfill domestic diversity requirement</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics and Critical Reasoning (3-5 credit hours)</td>
<td>Fulfilled in this major with MATH 11010.</td>
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</tr>
<tr>
<td>Social Sciences (6 credit hours)</td>
<td>Fulfilled in this major with ECON 22060 and GEOG 17063</td>
<td>0</td>
</tr>
</tbody>
</table>

**Note:** A minimum C grade must be earned in either TECH 45030 or TECH 45791 in order to fulfill the writing-intensive requirement.

**Kent Core**

Students must complete a minimum 36 credit hours of the Kent Core. Certain courses required in programs and in student’s major field may also fulfill the Kent Core. Honors equivalents shall satisfy the Kent Core. None of the courses on the Kent Core list may be taken with a pass/fail grade. Visit [www.kent.edu/catalog/kent-core](http://www.kent.edu/catalog/kent-core) for course list.

**Diversity Course Requirement**

Students must complete a two-course diversity requirement, consisting of one with a domestic (U.S.) focus and one with a global focus. One course must come from the Kent Core. The second course may be taken as a second Kent Core, within a major or minor, or as a general elective; or, with dean’s approval, by completing one semester of study in another country. Visit [www.kent.edu/catalog/diversity](http://www.kent.edu/catalog/diversity) for course list.

**Writing-Intensive Course Requirement**

Students must complete a one-course writing-intensive requirement in their major and earn minimum C (2.00) grade. Visit [www.kent.edu/catalog/wic](http://www.kent.edu/catalog/wic) for course list.

**Upper-Division Requirement**

Students must complete a minimum 39 upper-division (numbered 30000 to 49999) credit hours of coursework. Programs in the College of Arts and Sciences require a minimum of 42 hours of upper-division coursework.