## Plan of Study

### Associate in Science: Engineering Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 151 Inorganic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>ENG 100 Enhanced Composition I or ENG 101 Composition I or ENG 108 The Craft of Composition</td>
<td>3</td>
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<tr>
<td>ENS 101 Graphics</td>
<td>1</td>
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<tr>
<td>ENS 103 Elementary Engineering I</td>
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<tr>
<td>MAT 122 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>NCC 101 The College Experience (by advisement)</td>
<td>1</td>
</tr>
<tr>
<td>PED Activity Course(s)</td>
<td>1</td>
</tr>
<tr>
<td>ENS 104 Computational Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102 Composition II or ENG 109 The Art of Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MAT 123 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 122 Engineering Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PED Activity Course(s)</td>
<td>1</td>
</tr>
<tr>
<td>ENS 205 Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENS 225 Engineering Circuit Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 225 Multivariable Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHY 123 Engineering Physics II</td>
<td>4</td>
</tr>
<tr>
<td>General Elective Recommended: Psychology or Sociology</td>
<td>3</td>
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</tbody>
</table>

### Bachelor of Science: Mechanical Engineering Aerospace Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CHEM 107 Engineering Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>FCWR 101 Writing I</td>
<td>3</td>
</tr>
<tr>
<td>MENG 105 Engineering Graphics</td>
<td>1</td>
</tr>
<tr>
<td>ENG 102 Composition II or ENG 109 The Art of Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 170 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>FCWR 151 Writing II</td>
<td>3</td>
</tr>
<tr>
<td>PHSC 101 Foundations of Scientific Process</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Science equivalent</td>
<td>3</td>
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</tbody>
</table>

### Total

- **First Semester:** 66-67
- **Second Semester:** 59
- **TOTAL:** 59

*Both ENS 103 and ENS 104 must be satisfactorily completed in order to grant credit for MENG 201

**Plan of Study**

Approved by Dr. Nada Anid, Dean

School of Engineering and Computing Sciences, NYIT

- *Effective as of 2017*
NEW YORK INSTITUTE OF TECHNOLOGY

The following are courses necessary to complete the NYIT BS in Mechanical Engineering, Aerospace Concentration, after transferring from Nassau CC with a completed AS in Engineering Science. Please see preceding page for course-by-course transfer information.

<table>
<thead>
<tr>
<th>NYIT Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td><strong>Mechanical Engineering</strong></td>
<td></td>
</tr>
<tr>
<td>MENG 221 Strength of Materials</td>
<td>3</td>
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<tr>
<td>MENG 270 Instrumentation &amp; Measurement</td>
<td>1</td>
</tr>
<tr>
<td>MENG 310 Introduction to Materials Science</td>
<td>3</td>
</tr>
<tr>
<td>MENG 321 Introduction to Computer Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>MENG 324 Vibrations and Systems Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MENG 340 Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>MENG 346 Energy Conversion</td>
<td>4</td>
</tr>
<tr>
<td>MENG 349 Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>MENG 370 Machine Design</td>
<td>3</td>
</tr>
<tr>
<td>MENG 373 Engineering Analysis</td>
<td>3</td>
</tr>
<tr>
<td><strong>Aerospace Engineering</strong></td>
<td></td>
</tr>
<tr>
<td>AENG 410 Aerodynamics</td>
<td>3</td>
</tr>
<tr>
<td>AENG 463 Propulsion</td>
<td>3</td>
</tr>
<tr>
<td>AENG 466 Aerospace Laboratory or MENG 343 Thermofluids Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AENG 490 Flight Vehicle Design</td>
<td>4</td>
</tr>
<tr>
<td>AENG 492 Senior Aerospace Design</td>
<td>4</td>
</tr>
<tr>
<td><strong>Engineering Management</strong></td>
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<tr>
<td>IENG 240 Engineering Economics</td>
<td>3</td>
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<tr>
<td>IENG 245 Statistical Design I</td>
<td>3</td>
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<tr>
<td><strong>Mathematics and Sciences</strong></td>
<td></td>
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<tr>
<td>PHYS 225 Introduction to Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Foundation Courses</strong></td>
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<tr>
<td>FCIQ 101 Foundations of Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>FCSP 105 Foundations of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>FCWR 304 Communication for Technical Professions</td>
<td>3</td>
</tr>
<tr>
<td><strong>Seminars</strong></td>
<td></td>
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<tr>
<td>ICLT Literature Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ICPH Philosophy Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ICSS 309 Technology and Global Issues</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>71</strong></td>
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