### Suffolk Comm College

**AS Engineering Science**

**Course Number and Title**

**Major Courses**
- ORF 114 AutoCad
- ENS 118 Engineering Mechanics
- ENS 119 Engineering Mechanics-Dynamics
- CHE 133 College Chemistry 1
- ENS 233 Electrical Circuit Analysis
- ENS117: Engineering Computations

**Math and Science**
- MAT 141 Calc with Analytic Geometry 1
- PHY 130/132 Physics 1 + Lab
- PHY 230/232 Physics 2 + Lab
- PHY 245/246 Physics 3 + Lab
- MAT 142 Calc with Analytic Geometry 2
- MAT 203 Calc with Analytic Geometry 3
- MAT 204 Differential Equations

**Math and Science**
- MAT 141 Calc with Analytic Geometry 1
- PHY 130/132 Physics 1 + Lab
- PHY 230/232 Physics 2 + Lab
- PHY 245/246 Physics 3 + Lab
- MAT 142 Calc with Analytic Geometry 2
- MAT 203 Calc with Analytic Geometry 3
- MAT 204 Differential Equations

**English and Social Sciences**
- ENG 101 Freshmen Composition
- ENG 102 Intro to Literature

**History Elective**

**Social Science Elective**

**American Lit**

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### Vaughn College

**BS Mechatronics**

**Course Number and Title**

**Major Courses**
- CDE-117 Eng. Graphics CAD/Solid Edge
- MEE-115 Engineering Mechanics 1
- MEE-215 Engineering Mechanics 2
- CHE-230 Chemistry
- ELE-117 DC/AC Circuits
- CSC 316 C++/Java Prog

**Math and Science**
- MAT-125 Calculus 1 for Engineers
- PHY-125 Engineering Physics 1
- PHY-225 Engineering Physics 2
- PHY-335 Modern Physics
- MAT-225 Calculus 2 for Engineers
- MAT-330 Calc 3
- MAT325 Engineering Mathematics

**Math and Science**
- ENG-110 English 1
- ENG-120 English 2
- POL-254 American Government
- HIS-141 Global Civilization
- ENG-220 American Literature
- FYW 101 Freshman Year Initiative

**Total Credits** 58

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*Additional Course to be taken at Suffolk or Vaughn College prior to graduation.*

**Suggested sequence for Suffolk students after transferring to Vaughn College**

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<tr>
<th>SEMESTER VI</th>
<th>SEMESTER VII</th>
<th>SEMESTER VIII</th>
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<tbody>
<tr>
<td>MCE101 Intro to Robotics</td>
<td>ELE320 Digital Systems Design</td>
<td>EGR375 Thermo Fluid Lab</td>
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<tr>
<td>ENG240 Technical Writing</td>
<td>MCE410 Mechatronics 1</td>
<td>ELE328 Microprocessors</td>
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<td>MAT 410 Linear Algebra</td>
<td>MEE550 Control Systems 1</td>
<td>MCE420 Mechatronics 2</td>
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<tr>
<td>MAT356 Probability and Statistics CDE385 Intro to CATIA 1</td>
<td>MEE 235 Met Science and Failure Analysis</td>
<td>MEE355 Reliability Methods in Structural Analysis</td>
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<td>MEE210 Thermodynamics</td>
<td>MEE345 Fluid Mechanics</td>
<td>EGR460 Engineering Economics</td>
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<td>MEE220 Strength of Materials 1</td>
<td>Technical Elective</td>
<td>MEE 370 Finite Element Analysis</td>
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<td>CD 101 Career Development Seminar</td>
<td>MCE 401 Pre Capstone Project</td>
<td>MCE409 Senior Project</td>
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<td>EGR230 Mech Testing and Eval Lab</td>
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**Credits**

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<th>SEMESTER VI</th>
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