
**Recommended Curriculum For A Master of Science in Applied Engineering with a concentration in Mechatronics** (thesis and non-thesis tracks)

A minimum of 50% of courses for the Master of Science in Applied Engineering degree must be taken above the 5000 level.

<table>
<thead>
<tr>
<th>A. Foundation Courses</th>
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<tbody>
<tr>
<td>1. MATH 5530G Mathematics for Scientists and Engineers</td>
<td>3 credits</td>
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<tr>
<td>2. TMAE 7530 Research in Applied Engineering</td>
<td>3 credits</td>
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<th>B. Technical Core Courses</th>
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<tr>
<td>3. MENG 7137 Principles of Modeling and Analysis</td>
<td>3 credits</td>
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<tr>
<td>4. TMAE 7136 Mechatronics I</td>
<td>3 credits</td>
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<td>5. TMAE 7137 Mechatronics II</td>
<td>3 credits</td>
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<th>C. Technical Electives</th>
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<tr>
<td>6-8. MENG 5536G Mechanical Controls</td>
<td>Choose 3 for 9 credits</td>
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<tr>
<td>MENG 5333G Robot Dynamics, Design and Analysis</td>
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<td>MENG 5135G Vibrations and Preventative Maintenance</td>
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<td>MENG 5331G Automation and CIMS</td>
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<td>MENG 5233G Wind Energy</td>
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<td>EENG 5341G Robotic Systems Design</td>
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<td>EENG 5234G Power Electronics</td>
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<td>EENG 5342G Computer System Design</td>
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<td>EENG 5432G Programmable Logic Controller</td>
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<td>EENG 5540G Communication Systems</td>
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<td>TMAE 7890 Selected Topics in Applied Engineering¹</td>
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<td>TMAE 7895 Special Problems in Applied Engineering</td>
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<th>D. Capstone Activity</th>
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<tr>
<td>9. Thesis TMAE 7999 or (non-Thesis) Independent Study TMAE 7891 + 4th Technical Elective</td>
<td>6 credits total</td>
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**TOTAL** 30 credits


Georgia Southern University
Master of Science in Applied Engineering

March 2015
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