### Int Engr - Individual Plan of Study Degree Checklist (2021/22 catalog)

<table>
<thead>
<tr>
<th>Complete</th>
<th>Core Curriculum</th>
<th>Course that Satisfies Requirement</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
<td>First Year Writing (CFYW)</td>
<td>FYW 150</td>
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<td></td>
<td>Mathematical Reasoning (CMRP)</td>
<td>MATH 150</td>
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<td></td>
<td>Second Language Competency</td>
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<td></td>
<td>Lower-Division Theological and Religious Inquiry (FTRI)</td>
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<td>Upper-Division Theological and Religious Inquiry (FTRI)</td>
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<td></td>
<td>Philosophical Inquiry (FPHI)</td>
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<td>Ethical Inquiry (FETI)</td>
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<td></td>
<td>Scientific and Technological Inquiry (ESTI)</td>
<td>ENGR 101</td>
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<td></td>
<td>Historical Inquiry (EHSI)</td>
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<td>Social and Behavioral Inquiry (ESBI)</td>
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<td>Literary Inquiry (ELTI)</td>
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<tr>
<td></td>
<td>Artistic Inquiry (EARI)</td>
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<td></td>
<td>Diversity, Inclusion, Social Justice (FDD1)</td>
<td>ENGR 103</td>
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<tr>
<td></td>
<td>Diversity, Inclusion, Social Justice (FDD2 or FDG2)</td>
<td>GENG 350</td>
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<td></td>
<td>Advanced Writing (CADW)</td>
<td>GENG 350</td>
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<td>Oral Communication (CORL)</td>
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<td></td>
<td>Quantitative Reasoning (CQUR)</td>
<td>ISYE 330</td>
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<tr>
<td></td>
<td>First Year Integration (CINL)</td>
<td>LLC course</td>
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<td></td>
<td>Advanced Integration (CINT)</td>
<td>GENG 492</td>
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<table>
<thead>
<tr>
<th>Complete</th>
<th>Math/Science Courses</th>
<th>Prerequisites/Corequisites</th>
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<tbody>
<tr>
<td></td>
<td>CHEM 151/151L - General Chemistry</td>
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<td>Additional Math or Science (based on concentration)</td>
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<tr>
<td></td>
<td>MATH 150 - Calculus I</td>
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<td>MATH 151 - Calculus II</td>
<td>MATH 150 (C- or better)</td>
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<td></td>
<td>MATH 310 - Applied Math for Science and Engineering I</td>
<td>MATH 151 (C- or better)</td>
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<td>MATH 250 - Calculus III</td>
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<td>ISYE 330 - Engineering Probability &amp; Statistics</td>
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<td></td>
<td>PHYS 270/270L – Mechanics +lab</td>
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<td></td>
<td>PHYS 271/271L – Electricity &amp; Magnetism +lab</td>
<td>PHYS 270 (C- or better), MATH 151</td>
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<table>
<thead>
<tr>
<th>Complete</th>
<th>Engineering Core Courses</th>
<th>Prerequisites/Corequisites</th>
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<tr>
<td></td>
<td>ENGR 101 - Introduction to Engineering</td>
<td>MATH 115 or (MATH 150)</td>
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<td></td>
<td>ENGR 102 – Electromechanical System Design</td>
<td>ENGR 101, ENGR 121, MATH 150</td>
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<td>ENGR 103 – User-Centered Design</td>
<td>ENGR 101, MATH 150</td>
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<td>COMP 110– Computational Problem Solving</td>
<td>(MATH 150)</td>
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<table>
<thead>
<tr>
<th>Complete</th>
<th>GENG Required Courses</th>
<th>Prerequisites/Corequisites</th>
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<tbody>
<tr>
<td></td>
<td>GENG 250: Integrated Approach to Energy</td>
<td>PHYS 271, PHYS 271L, ENGR 102, ENGR 103, (MATH 310)</td>
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<tr>
<td></td>
<td>GENG 311 - Engineering Materials Science</td>
<td>CHEM 151&amp;L, MATH 151, PHYS 271&amp;L (all with C- or better)</td>
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<td>GENG 288: Integrated Approach to Electrical Engineering</td>
<td>PHYS 271, MATH 310</td>
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<td>GENG 380 - Sustainability and Engineering</td>
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<td>MENG 210 - Statics</td>
<td>PHYS 270, MATH 150</td>
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<td></td>
<td>Engineering Elective (lower or upper division)</td>
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<td>Engineering Elective (upper division)</td>
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<td>GENG 350 - Engineering and Social Justice</td>
<td>ENGR 103, (GENG 250 or GENG 288 or MENG 311 C- or better)</td>
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<td></td>
<td>GENG 360 - Experimental Engineering</td>
<td>ENGR 102, GENG 288 or ELEC 201, MENG 210, GENG 250 or MENG 260, GENG 491</td>
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<td></td>
<td>GENG 491 - Engineering Senior Design I</td>
<td>GENG 350,360</td>
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<td>GENG 492 - Engineering Senior Design II</td>
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<tr>
<th>Complete</th>
<th>Individual Plan of Study (IPS)</th>
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<tr>
<td></td>
<td>Approved Engineering classes</td>
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<td>Approved IPS electives</td>
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