

# Mechanical Engineering Undergraduate Curriculum Structure (Cohort AY2025/2026 onwards)

| Mechanical Engineering Major Requirements   | Common Curriculum Requirements   |   | Unrestricted Elective (UE) Courses   |
|---|--|---|--|
| <p><b>Engineering Core (20 units)</b></p> <ul style="list-style-type: none"> <li>• MA1505 (4 units)</li> <li>• MA1512 (2 units)</li> <li>• MA1513 (2 units)</li> <li>• EG2401A Engineering Professionalism (2 units)</li> <li>• EG3611A Industrial Attachment (10 units)</li> </ul> <p><b>Mechanical Engineering Major (60 units)</b></p> <ul style="list-style-type: none"> <li>• ME1103 Principles of Mechanics and Materials (4 units)</li> <li>• ME2105 Principles of Mechatronics and Automation (4 units)</li> <li>• Core Courses (32 units)</li> <li>• ME Technical Electives (12 units)</li> <li>• Integrated Project: FYP ME4101A (8 units)</li> </ul> | <p><b>General Education (GE) Courses (24 units)</b></p> <ul style="list-style-type: none"> <li>• GEA1000 Quantitative Reasoning with Data</li> <li>• CS1010E Programming Methodology</li> <li>• ES2631 Critique and Communication of Thinking and Design</li> <li>• CDE2501 Sustainable Systems Liveable Cities</li> <li>• Communities &amp; Engagement</li> <li>• Cultures and Connections</li> </ul> | <p><b>Common Courses (16 units)</b></p> <ul style="list-style-type: none"> <li>• EG1311 Design and Make</li> <li>• EE2211 Introduction to Machine Learning <u>or</u> EE2213 Introduction to Artificial Intelligence</li> <li>• DTK1234 Design Thinking</li> <li>• PF1101A Project Management and Finance</li> </ul> | <p><b>40 units of Unrestricted Elective Courses</b></p> <p>(Any course open to you; may be used to fulfil requirements for specialisations, majors or minors. Refer to the "Build Your Own Degree" page for more information.)</p> |
| <p><b>Sub-total = 80 units</b></p>  | <p><b>Sub-total = 40 units</b></p>   |   | <p><b>Sub-total = 40 units</b></p>   |

**Minimum required for graduation = 160 units**