

## Mechanical Engineering and Business (Option D)

September 2022 (for students who entered first year in September 2019)

<p><b>Year 2</b></p> <p><b>Term A</b></p> <p>AM 2270A Applied Mathematics for Engineering II  MME 2202A Mechanics of Materials  MME 2204A Thermodynamics I  MME 2259A Product Design and Development  MME 2260A Industrial Materials  BUS 2257 Accounting and Business Analysis</p> <p><b>Term B</b></p> <p>AM 2276B Applied Mathematics for Elec. &amp; Mech. Engineering III  MME 2221B Computational Methods  MME 2213B Engineering Dynamics  MME 2273B Introduction to Fluid Mechanics and Heat Transfer  SS 2143B Applied Statistics and Data Analysis for Engineers  MME 2200Q Engineering Shop Safety Training  BUS 2257 Accounting and Business Analysis</p> <p><b>Year 3: HBA 1</b></p> <p><b>Year 4</b></p> <p><b>Term A</b></p> <p>MME 3325A Mechanical Vibrations  ECE 3374A Introduction to Electronics for Mechanical Engineering  MME 3303A Fluid Mechanics II  MME 3379A Materials Selection  MME 3381A Kinematics and Dynamics of Machines  BUS 4569 Ivey Field Project</p> <p><b>Term B</b></p> <p>MME 2285B Engineering Experimentation  MME 3307B Heat Transfer II  MME 3334B Thermodynamics II  MME 3360B Finite Element Methods in Mechanical Engineering  MME 3380B Mechanical Components Design</p> <p><b>Year 5</b></p> <p><b>Term A</b></p> <p>MME 4499 Mechanical Engineering Design Project  One 0.5-credit technical elective  1.5 HBA required courses**</p> <p><b>Term B</b></p> <p>MME 4499 Mechanical Engineering Design Project  ELI 4110G Engineering Ethics, Sustainable Development &amp; the Law  MME 3350B System Modelling and Control  One 0.5-credit technical elective  1.5 elective Business courses at the 4000 level</p>	<p><b>NOTES:</b></p> <p><b>**1.5 HBA required courses:</b></p> <ul style="list-style-type: none"> <li>International Perspective Requirement: Business 4505A/B.</li> <li>Corporations and Society Requirement: at least 0.5-credit from Business Administration – Corporations and Society designated electives offered during the academic year or other business elective as determined and approved by the HBA Program Director to satisfy this requirement.</li> <li>Managerial Accounting Requirement: Business 4624A/B</li> </ul> <p><b>Technical Electives</b>  Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.</p> <table border="1"> <tr><td>MME 4410</td><td>Mechanical and Materials Engineering Thesis</td></tr> <tr><td>MME 4423A/B</td><td>Internal Combustion Engines</td></tr> <tr><td>MME 4424A/B</td><td>Mechanical Properties of Materials</td></tr> <tr><td>MME 4425A/B</td><td>Mechanical Vibrations</td></tr> <tr><td>MME 4427A/B</td><td>Selected Topics in Mechanical Engineering III</td></tr> <tr><td>MME 4428A/B</td><td>Selected Topics in Mechanical Engineering IV</td></tr> <tr><td>MME 4429A/B</td><td>Nuclear Engineering</td></tr> <tr><td>MME 4435A/B</td><td>Pressure Vessel Design</td></tr> <tr><td>MME 4437A/B</td><td>Advanced CAE: Simulation</td></tr> <tr><td>MME 4446A/B</td><td>Composite Materials</td></tr> <tr><td>MME 4450A/B</td><td>Control Systems: Theory and Practice</td></tr> <tr><td>MME 4452A/B</td><td>Robotics and Manufacturing Automation</td></tr> <tr><td>MME 4453A/B</td><td>Corrosion and Wear</td></tr> <tr><td>MME 4459A/B</td><td>Advanced CAE: Manufacturing Technologies</td></tr> <tr><td>MME 4460A/B</td><td>HVAC II</td></tr> <tr><td>MME 4469A/B</td><td>Biomechanics of the Musculoskeletal System</td></tr> <tr><td>MME 4470A/B</td><td>Medical and Assistive Devices</td></tr> <tr><td>MME 4473A/B</td><td>Computer Integrated Manufacturing (CIM)</td></tr> <tr><td>MME 4474A/B</td><td>Selected Topics in Mechanical Engineering I</td></tr> <tr><td>MME 4475A/B</td><td>Selected Topics in Mechanical Engineering II</td></tr> <tr><td>MME 4480A/B</td><td>Advanced CAE: Reverse Engineering</td></tr> <tr><td>MME 4482A/B</td><td>Fundamentals of MEMS</td></tr> <tr><td>MME 4483A/B</td><td>HVAC I</td></tr> <tr><td>MME 4485A/B</td><td>Fluid Machinery</td></tr> <tr><td>MME 4487A/B</td><td>Mechatronic System Design</td></tr> <tr><td>MME 4490A/B</td><td>Engineering in a Global Context: Advanced Manufacturing <i>*Course with an International Component: see MME office for details</i></td></tr> <tr><td>MME 4492A/B</td><td>Production Management for Engineers</td></tr> </table>	MME 4410	Mechanical and Materials Engineering Thesis	MME 4423A/B	Internal Combustion Engines	MME 4424A/B	Mechanical Properties of Materials	MME 4425A/B	Mechanical Vibrations	MME 4427A/B	Selected Topics in Mechanical Engineering III	MME 4428A/B	Selected Topics in Mechanical Engineering IV	MME 4429A/B	Nuclear Engineering	MME 4435A/B	Pressure Vessel Design	MME 4437A/B	Advanced CAE: Simulation	MME 4446A/B	Composite Materials	MME 4450A/B	Control Systems: Theory and Practice	MME 4452A/B	Robotics and Manufacturing Automation	MME 4453A/B	Corrosion and Wear	MME 4459A/B	Advanced CAE: Manufacturing Technologies	MME 4460A/B	HVAC II	MME 4469A/B	Biomechanics of the Musculoskeletal System	MME 4470A/B	Medical and Assistive Devices	MME 4473A/B	Computer Integrated Manufacturing (CIM)	MME 4474A/B	Selected Topics in Mechanical Engineering I	MME 4475A/B	Selected Topics in Mechanical Engineering II	MME 4480A/B	Advanced CAE: Reverse Engineering	MME 4482A/B	Fundamentals of MEMS	MME 4483A/B	HVAC I	MME 4485A/B	Fluid Machinery	MME 4487A/B	Mechatronic System Design	MME 4490A/B	Engineering in a Global Context: Advanced Manufacturing <i>*Course with an International Component: see MME office for details</i>	MME 4492A/B	Production Management for Engineers
MME 4410	Mechanical and Materials Engineering Thesis																																																						
MME 4423A/B	Internal Combustion Engines																																																						
MME 4424A/B	Mechanical Properties of Materials																																																						
MME 4425A/B	Mechanical Vibrations																																																						
MME 4427A/B	Selected Topics in Mechanical Engineering III																																																						
MME 4428A/B	Selected Topics in Mechanical Engineering IV																																																						
MME 4429A/B	Nuclear Engineering																																																						
MME 4435A/B	Pressure Vessel Design																																																						
MME 4437A/B	Advanced CAE: Simulation																																																						
MME 4446A/B	Composite Materials																																																						
MME 4450A/B	Control Systems: Theory and Practice																																																						
MME 4452A/B	Robotics and Manufacturing Automation																																																						
MME 4453A/B	Corrosion and Wear																																																						
MME 4459A/B	Advanced CAE: Manufacturing Technologies																																																						
MME 4460A/B	HVAC II																																																						
MME 4469A/B	Biomechanics of the Musculoskeletal System																																																						
MME 4470A/B	Medical and Assistive Devices																																																						
MME 4473A/B	Computer Integrated Manufacturing (CIM)																																																						
MME 4474A/B	Selected Topics in Mechanical Engineering I																																																						
MME 4475A/B	Selected Topics in Mechanical Engineering II																																																						
MME 4480A/B	Advanced CAE: Reverse Engineering																																																						
MME 4482A/B	Fundamentals of MEMS																																																						
MME 4483A/B	HVAC I																																																						
MME 4485A/B	Fluid Machinery																																																						
MME 4487A/B	Mechatronic System Design																																																						
MME 4490A/B	Engineering in a Global Context: Advanced Manufacturing <i>*Course with an International Component: see MME office for details</i>																																																						
MME 4492A/B	Production Management for Engineers																																																						