Integrated Engineering and Business Option

September 2017

Year 2:

Term A
AM 2270a  Applied Mathematics for Engineering II
CEE 2202a  Mechanics of Materials
ECE 2277a  Digital Logic Systems
MSE 2214a  Thermodynamics I
MME 2259a  Product Design and Development
Bus 2257  Accounting and Business Analysis

Term B
AM 2276b  Applied Mathematics for Electrical and Mechanical Engineering III
CBE 2221b  Fluid Flow
CBE 2291b  Computational Methods for Engineers
ECE 2238b  Introduction to Electrical Engineering
SS 2143b  Applied Statistics and Data Analysis for Engineers
Bus 2257  Accounting and Business Analysis

Year 3: HBA 1

Year 4:

Term A
ES 3331a  Engineering Innovation II: Managing the Innovation Process
CBE 2220a  Chemical Process Calculations
CBE 3322a  Heat Transfer Operations
CEE 2220a  Structural Theory and Design I
ECE 3374a  Introduction to Electronics for Mechanical Engineering
Bus 4569  Ivey Field Project

Term B
ES 3330b  Engineering Innovation I: New Venture Creation
MSE 2213b  Engineering Dynamics
MME 2285b  Engineering Experimentation
MSE 3360b  Finite Element Methods for Mechanical Engineering
ES 4498G  Engineering Ethics, Sustainable Development and the Law

Year 5:

Term A
ES 4499  Interdisciplinary Engineering Design Project
ES 4480a  Engineering Innovation III: Leadership and Corporate Entrepreneurship
0.5 technical elective
Bus 4505a  Global Macroeconomics for Managers
Bus 4521a/b or 4522a/b or 4523a/b
0.5 Business electives chosen from 4000 level Business courses.

Term B
ES 4499  Interdisciplinary Engineering Design Project
1.0 technical electives
1.5 Business electives chosen from 4000 level Business courses.

NOTES:

Year 4 Options:

Technical Elective List:
Some technical electives may not be offered in a given academic year. Consult the department for accurate listing.

<table>
<thead>
<tr>
<th>Chemical and Biochemical Engineering</th>
<th>Civil and Environmental Engineering</th>
<th>Electrical and Computer Engineering</th>
<th>Mechanical and Materials Engineering</th>
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</thead>
<tbody>
<tr>
<td>CBE 2290a/b  Fundamentals of Biochemical and Environmental Engineering</td>
<td>CEE 3348a/b  Project Management and Engineering Cases</td>
<td>ECE 3349a/b  Introduction of VLSI</td>
<td>MME 3379a/b  Materials Selection</td>
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<tr>
<td>CBE 3310a/b  Process Dynamics and Control</td>
<td>CEE 3362a/b  Drinking Water Quality and Treatment</td>
<td>ECE 3375a/b  Microprocessors and Microcomputers</td>
<td>MMME 3381a/b  Kinematics and Dynamics of Machines</td>
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<tr>
<td>CBE 4409a/b  Wastewater Treatment</td>
<td>CEE 4418a/b  Systems Approach for Civil and Environmental Engineering</td>
<td>ECE 4468a/b  Systems Optimization</td>
<td>MME 4473a/b  Computer Integrated Manufacturing (CIM)</td>
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<tr>
<td>CBE 4421a/b  Introduction to Biomaterials Engineering</td>
<td>CEE 4458a/b  Risk Analysis and Decision Making in Engineering</td>
<td>SE 3314a/b  Computer Networks Applications</td>
<td>MME 4487a/b  Mechatronic System Design</td>
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<td>CEE 4465a/b  Environmental Design for Waste Disposal</td>
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<td>MME 4492a/b  Production Management for Engineers</td>
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<td>CEE 4477a/b  Environmental Applications of Nanotechnology</td>
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