# Integrated Engineering

**September 2023** (students who entered *first year* in September 2020)

## Year 2:

### Term A

- AM 2270a  Applied Mathematics for Engineering II  
- CEE 2220a  Introduction to Structural Theory  
- ECE 2277a  Digital Logic Systems  
- MSE 2214a  Thermodynamics I  
- IE 2297a  Integrated System Engineering & Design  
- One 0.5 non-technical elective

### 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  
- One 0.5 non-technical elective

## Year 3:

### Term A

- ELI 3000a  Managing the Innovation Process  
- CBE 2220a  Chemical Process Calculations  
- CBE 3322a  Heat Transfer Operations  
- CEE 2202a  Mechanics of Materials  
- ECE 3374a  Introduction to Electronics for Mechanical Engineering  
- MSE 3301a  Materials Selection & Manufacturing Processes

### Term B

- ELI 3200b  New Venture Creation  
- CBE 2221b  Structural Theory and Design II  
- MSE 2213b  Engineering Dynamics  
- MME 2285b  Engineering Experimentation  
- MSE 3360b  Finite Element Methods in Mechanical Engineering  
- ELI 4110g  Engineering Ethics, Sustainable Development and the Law

## Year 4:

### Term A

- IE 4499  Interdisciplinary Engineering Design Project  
- ELI 4100a  Engineering Leadership  
- Three 0.5 technical electives

### Term B

- IE 4499  Interdisciplinary Engineering Design Project  
- ELI 4200b  The Entrepreneurial Environment  
- Three 0.5 technical electives

The technical electives listed here are recommended technical electives from each department. Other courses may be taken if prerequisite requirements are satisfied.

## NOTES:

### Important:

Students are responsible for ensuring they have the correct courses required for their degree. If you are unsure which courses you still need or if you see courses listed on the progression sheet that are no longer offered or are not offered in the term you see listed here, please contact your Academic Counsellor.

### Non-technical Electives:

- [http://www.eng.uwo.ca/undergraduate/upper_year/electives.html](http://www.eng.uwo.ca/undergraduate/upper_year/electives.html)

### 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>
</tr>
</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 3381a/b  Kinematics and Dynamics of Machines</td>
</tr>
<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>MME 4452a/b  Robotics and Manufacturing Automation</td>
</tr>
<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 4487a/b  Computer Integrated Manufacturing (CIM)</td>
</tr>
<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 4492a/b  Production Management for Engineers</td>
</tr>
</tbody>
</table>

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The official version of the academic calendar can be found at: [www.westerncalendar.uwo.ca](http://www.westerncalendar.uwo.ca)