

Chemical: Biochemical and Environmental Engineering (Option B)

September 2020 (students who entered *first year* in September 2017)

<p>Year 2:</p> <p>Term A</p> <p>AM 2270a Applied Math for Engineering II CBE 2206a Introductory Industrial Organic Chemistry CBE 2214a Engineering Thermodynamics CBE 2220a Chemical Process Calculations CBE 2290a Fundamentals of Biochemical and Environmental Engineering Writing Building Better (Communication) Bridges: Rhetoric & 2130f Professional Communication for Engineers</p> <p>Term B</p> <p>AM 2277b Applied Math Chemical and Civil Engineering III CBE 2207b Applied Industrial Organic Chemistry CBE 2221b Fluid Flow CBE 2224b Chemical Eng. Thermodynamics CBE 2291b Computational Methods for Engineering SS 2143b Applied Statistics and Data Analysis for Engineers</p> <p>Year 3:</p> <p>Term A</p> <p>CBE 3330a Bioreaction & Bioprocess Engineering CBE 3315a Reaction Engineering CBE 3324a Mass Transfer Operations CBE 3322a Heat Transfer Operations CBE 3325a Particulate Operations CBE 3396y Biochemical Engineering Lab</p> <p>Term B</p> <p>CBE 3310b Process Dynamics and Control CBE 3319b Introduction to Plant Design and Safety CBE 3318b Introduction to Chemical Process Simulation CBE 3323b Staged Operations CBE 3396y Biochemical Engineering Lab ECE2208b Electrical Measurement and Instrumentation CBE 4403b Biochemical Separation Process</p> <p>Year 4:</p> <p>Term A</p> <p>CBE 4498 Biochemical Process and Plant Design Two 0.5 Technical elective 1.0 Non-technical elective taken from approved list</p> <p>Term B</p> <p>CBE 4498 Biochemical Process and Plant Design ES 4498G Engineering Ethics, Sustainable Development and the Law Two 0.5 Technical elective 0.5 Non-technical elective taken from approved list</p> <p><i>Students must take a minimum of 1.0 technical elective credits from the Biochemical and Environmental Engineering Course List.</i></p> <p><i>Accelerated Masters students can take a graduate course with special permission from the Department Chair.</i></p>	<p>NOTES:</p> <p>Non-technical Electives: Please choose a maximum of 1.0 credits (one 1.0 credit course or two 0.5 credit courses) from the 1000 level and a minimum of one 0.5 credit from the 2000 (or higher) level.</p> <p>http://www.eng.uwo.ca/undergraduate/upper_year/electives.html</p> <p>Technical Elective List: Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.</p> <table border="1"> <thead> <tr> <th colspan="2">General Chemical Engineering Courses</th> </tr> </thead> <tbody> <tr> <td>CBE 4404a/b</td> <td>Downstream Processing in Pharmaceutical Manufacturing</td> </tr> <tr> <td>CBE 4413a/b</td> <td>Selected Topics in Chemical Engineering</td> </tr> <tr> <td>CBE 4416a/b</td> <td>Carbon Footprint Management</td> </tr> <tr> <td>CBE 4417a/b</td> <td>Catalytic Processes</td> </tr> <tr> <td>CBE 4418a/b</td> <td>Industrial Multiphase Reactor Design</td> </tr> <tr> <td>CBE 4420a/b</td> <td>Computer Process Control</td> </tr> <tr> <td>CBE 4428a/b</td> <td>Introduction to Nanoengineering</td> </tr> <tr> <td>CBE 4432a/b</td> <td>Energy and Fuels Production Systems</td> </tr> <tr> <td>CBE 4485a/b</td> <td>Energy and Society</td> </tr> <tr> <td>CBE 4493a/b</td> <td>Polymer Engineering</td> </tr> <tr> <th colspan="2">Biochemical and Environmental Engineering Courses</th> </tr> <tr> <td>CBE 4407a/b</td> <td>Solid Waste Treatment</td> </tr> <tr> <td>CBE 4409a/b</td> <td>Wastewater Treatment</td> </tr> <tr> <td>CBE 4425</td> <td>Biochemical & Environmental Eng. 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