

Chemical: Biochemical and Environmental Engineering (Option B)

September 2020 (students who entered first year in September 2018 or later)

Year 2:		
Term A		NOTES:
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	
Term B		
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	Non-technical Electives: Please choose a maximum of 1.0 credits (one 1.0 credit course or two
Year 3:		0.5 credit courses) from the 1000 level and a minimum of one 0.5
Term A		credit from the 2000 (or higher) level.
CBE 3307a	Energy & Environment	http://www.eng.uwo.ca/undergraduate/upper_year/electives.html
CBE 3330a	Bioreaction & Bioprocess Engineering	interpretation and an action and action appearance and action action and action action and action
CBE 3315a	Reaction Engineering	
CBE 3324a	Mass Transfer Operations	
CBE 3322a	Heat Transfer Operations	
CBE 3396y	Biochemical Engineering Lab	
Term B		
CBE 3310b	Process Dynamics and Control	Technical Elective List:
CBE 3316b	Sustainable Chemical Engineering & Life Cycle Analysis	Come technical electives may not be effored in a given academia
CBE 3310b	Introduction to Plant Design and Safety	Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.
CBE 3318b	Introduction to Chemical Process Simulation	year. consult the bepartment for accurate listing.
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<u>Year 4:</u>

CBE 3323b

CBE 3396y CBE 4403b

Term A

CBE 4498 Biochemical Process and Plant Design

Biochemical Engineering Lab

Biochemical Separation Process

Staged Operations

Two 0.5 Technical elective

1.0 Non-technical elective taken from approved list

Term B

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

Accelerated Masters students can take a graduate course with special permission from the Department Chair.

General Chemical Engineering Courses			
CBE 4404a/b	Downstream Processing in Pharmaceutical		
CBE 4404d/D	Manufacturing		
CBE 4413a/b	Selected Topics in Chemical Engineering		
CBE 4416a/b	Carbon Footprint Management		
CBE 4417a/b	Catalytic Processes		
CBE 4418a/b	Industrial Multiphase Reactor Design		
CBE 4420a/b	Computer Process Control		
CBE 4428a/b	Introduction to Nanoengineering		
CBE 4432a/b	Energy and Fuels Production Systems		
CBE 4485a/b	Energy and Society		
CBE 4493a/b	Polymer Engineering		
Biochemical and Environmental Engineering Courses			
CBE 4407a/b	Solid Waste Treatment		
CBE 4409a/b	Wastewater Treatment		
CBE 4425	Biochemical & Environmental Eng. Project		
CBE 4421a/b	Introduction to Biomaterials Engineering		
CBE 4422a/b	Nanobiotechnology		
CBE 4423a/b	Tissue Engineering		
CBE 4424a/b	Biosensor Principles and Applications		
CBE 4463a/b	Water Pollution Design		
CEE 3362a/b	Drinking Water Quality and Treatment		
CEE 4405a/b	Air Pollution		
GPE 4484a/b	Green Fuels and Chemicals		
MME 4429a/b	Nuclear Engineering		