

# **Chemical: General Chemical Engineering (Option A)**

**September 2018** (students who entered *first year* in September 2016)

September 2020 (students who entered just year in septe				
Year 2:				
Term A				
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			

## Year 3:

CBE 2224b CBE 2291b

SS 2143b

## Term A

CBE 3315a Reaction Engineering

CBE 3318a Introduction to Chemical Process Simulation

Chemical Eng. Thermodynamics

Computational Methods for Engineering

Applied Statistics and Data Analysis for Engineers

CBE 3322a Heat Transfer Operations
CBE 3325a Particulate Operations
CBE 3395y Chemical Engineering Lab

One 0.5 Non-technical elective taken from approved list

Process Dynamics and Control

#### Term B

CBF 3310h

CDL 33100	1 Toccss Dynamics and Control	
CBE 3319b	Introduction to Plant Design and Safety	
CBE 3323b	Staged Operations	
CBE 3324b	Mass Transfer Operations	
CBE 3395y	Chemical Engineering Lab	
ECE 2208b	Electrical Measurements	
One O. F. Non-technical elective taken from approved lie		

One 0.5 Non-technical elective taken from approved list

## Year 4:

#### Term A

CBE 4497 Chemical Process and Plant Design
CBE 4415\* Chemical Engineering Project

Two 0.5 Technical electives

0.5 Non-technical elective taken from approved list

#### Term B

CBE 4497 Chemical Process and Plant Design
CBE 4415\* Chemical Engineering Project

ES 4498G Engineering Ethics, Sustainable Development and the Law

Two 0.5 Technical electives<sup>†</sup>

\* A student may substitute two 0.5 technical electives from the list provided for CBE 4415

<sup>†</sup> Accelerated Masters students can take a graduate course with special permission from the Department Chair.
Student may choose a minimum of 4 half-courses from Group "A" and a

maximum of 2 from Group "B"

# **NOTES:**

#### **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.

http://www.eng.uwo.ca/undergraduate/first\_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.

CBE 4404a/b	Downstream Processing in
CBE 4404d/U	Pharmaceutical Manufacturing
CBE 4407a/b	Solid Waste Treatment
CBE 4409a/b	Wastewater Treatment
CBE 4413a/b	Selected Topic in Chemical Engineering
CBE 4417a/b	Catalytic Processes
CBE 4418a/b	Industrial Multiphase Reactor Design
CBE 4420a/b	Computer Process Control
CBE 4421a/b	Introduction to Biomaterials Engineering
CBE 4422a/b	Nanobiotechnology
CBE 4423a/b	Tissue Engineering
CBE 4424a/b	Biosensor Principles and Applications
CBE 4432a/b	Energy and Fuels Production Systems
CBE 4463a/b	Water Pollution Design
CBE 4485a/b	Energy & Society
CBE 4493a/b	Polymer Engineering
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