

Chemical Engineering and Business (Option C)

September 2023 (for students who entered HBA in September 2019 or later)

Year 2:

Term A

NMM 2270a	Applied Math for Engineering II (Formerly AM 2270a)
CBE 2206a	Introductory Industrial Organic Chemistry
CBE 2214a	Engineering Thermodynamics
CBE 2220a	Chemical Process Calculations
CBE 2290a	Fundamentals of Biochemical and Environmental Engineering
BUS 2257	Accounting & Business Analysis

Term B

NMM 2277b	Applied Math Chemical and Civil Engineering III (Formerly AM 2277b)
CBE 2207b	Applied Industrial Organic Chemistry
CBE 2221b	Fluid Flow
CBE 2224b	Chemical Eng. Thermodynamics
CBE 2291b	Computational Methods for Engineering
BUS 2257	Accounting & Business Analysis

Year 3: HBA 1

Year 4:

Term A

CBE 3307a	Energy & Environment
CBE 3315a	Reaction Engineering
CBE 3318a	Introduction to Chemical Process Simulation
CBE 3322a	Heat Transfer Operations
CBE 3395y	Chemical Engineering Lab
BUS 4569	Ivey Field Project

Term B

CBE 3310b	Process Dynamics and Control
CBE 3316b	Sustainable Chemical Engineering & Life Cycle Analysis
CBE 3319b	Introduction to Plant Design and Safety
CBE 3323b	Staged Operations
CBE 3324b	Mass Transfer Operations
CBE 3395y	Chemical Engineering Lab
SS 2143b	Applied Statistics and Data Analysis for Engineers

Year 5:

Term A

CBE 4497	Chemical Process and Plant Design
One 0.5 Technical elective	
1.5 HBA required courses**	

Term B

CBE 4497	Chemical Process and Plant Design
ELI 4110g	Engineering Ethics, Sustainable Development and the Law
One 0.5 Technical elective	
1.5 Business electives chosen from 4000 level Business courses.	

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. For HBA related questions, please contact the Richard Ivey School of Business. For Engineering related questions, please contact your Academic Counsellor in Engineering.

**1.5 HBA required courses:

- International Perspective Requirement: Business 4505a/b
- Corporations and Society Requirement: 0.5 course from Business Administration – Corporations and Society designated electives offered during the academic year to satisfy this requirement.
- Managerial Accounting Requirement: Business 4624a/b

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 Pharmaceutical Manufacturing
CBE 4405a/b	Air Pollution
CBE 4407a/b	Solid Waste Treatment
CBE 4409a/b	Wastewater Treatment
CBE 4411a/b	Engineering Coffee
CBE 4413a/b	Selected Topic in Chemical Engineering
CBE 4415	Chemical Engineering Project
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 4421a/b	Introduction to Biomaterials Engineering
CBE 4422a/b	Nanobiotechnology
CBE 4423a/b	Tissue Engineering
CBE 4424a/b	Biosensor Principles and Applications
CBE 4428a/b	Introduction to Nanoengineering
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
GPE 4484a/b	Green Fuels and Chemicals
MME 4429a/b	Nuclear Engineering