

FYI

Modules in bold print must be taken in the semesters in which they are listed because of prerequisite rules which affect eligibility for accessing modules in subsequent semesters.

Please speak to your Programme Leader/Academic Advisor about electives and to confirm whether there are module changes.

Remember, your Academic Advisor is here to assist you in making your academic decisions!

Keep in mind that the modalities presented here are subject to change.

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University of Technology, Jamaica

School of Engineering

Module Selection Guide



B.Eng. Chemical Engineering

AY 2023/24

Student's Name:

Student's ID #:

Start Date:

Academic Advisor:

YEAR [LEVEL]	PERIOD			MODULE CODE	MODULE TITLE	CREDIT HOURS	MODALITY	PRE-REQUISITE MODULE CODE (Indicate - P (Pass) OR T (Taken))
	(Access Options)							
	S1	S2	Sum					
1	√	√	√	COM1024	Academic Literacy for Undergraduates	3	ONLINE/F2F	
1	√		√	MAT2018	BEng Mathematics 1 - Calculus 1	3		CAPE Math/MATH1059 [P]
1	√			PHS1005	Engineering Physics 1	4		CAPE Physics [P]
1	√			CMP1003	Computers in Engineering	4		
1	√			ENG1009	Engineering Tools	3	Blended	
1	√	√	√	CSP1001	Community Service Project	1		
						18		
1		√		ELE2210	Electrical Technology	3		
1		√		CHE1001	Elementary Principles of Chemical Engineering	4	F2F	ENG1009 [P]
1	√	√	√	COM2016	Critical Thinking, Reading & Writing	3	ONLINE/F2F	COM1024 [P]
1		√		MAT2022	BEng Mathematics 2 - Calculus 2	3		MAT2018 [T]
1		√		ENG2008	Engineering Statics	3		
1		√		ENG1006	Engineering Seminar	1		
1		√		LIB1001	Library Fundamentals	1		
						18		
2	√	√		SPA1001	Spanish for Engineers 1	3	F2F	
2	√		√	CHY2018	Physical Chemistry	4		
2	√		√	MAT3004	BEng Mathematics 3- Differential Equations	3		MAT2018[T]
2	√			CHY2026	Biochemistry	3		
2	√			CHY2027	Biochemistry Lab	1		
2	√			ENT3001	Entrepreneurial skills	3		
						17		
2		√		SPA1002	Spanish for Engineers 2	3		SPA1001 [P]
2		√		CHE3001	Unit Operations 3: Particle Technology	3	Blended	CHE1001 [P]
2		√		ENG3001	Material Science with corrosion	3	F2F	
2		√	√	CHY3022	Analytical Chemistry	4		CHY2018[P]/CHY2026[P]

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	S1	S2	Sum					
2		√		STA2023	Engineering Statistics	3		MAT2018 [P]
2		√		CHE3012	Unit Operations 2	3	Online	CHE1001 [T]
						19		
3	√			CHE3006	Chemical Reaction Engineering	3	F2F	CHE1001 [P]
3	√	√	√	ENG4016	Management for Engineers	3		
3	√			CHE3003	Chemical Engineering Thermodynamics I	3	Online	CHE1001 [T]
3	√			CHE3008	Unit Operations 5: Mass Transfer	3	F2F	CHE1001 [P]
3	√			CHE3004	Unit Operations 4: Heat Transfer	3	ONLINE	CHE1001 [T]
3	√			CHE4022	Inorganic Chemical Technology	3	ONLINE	CHE1001 [P]
						18		
3		√		SPA2007	Spanish for Engineers 3	3		SPA1002[P]
3		√		CHE2003	Unit Operations Laboratory 1	1	F2F	CHE3001 [T], CHE3012[T]
3		√		CHE2004	Chemical and Biological Process Principles	1	ONLINE	CHE1001 [P]
3		√		CHE2001	Unit Operations 1: Transport Phenomena	4	ONLINE	CHE1001 [T]
3		√		CHE3007	Chemical Engineering Thermodynamics II	3	BLENDED	CHE3003 [T]
3		√		CHE3005	Unit Operations Laboratory II	1	F2F	CHE3004 [P], CHE3008 [P] CHE3012 [P]
						13		
4	√			CHE4018	Wastewater Treatment	3	BLENDED	
4	√			SPA2006	Spanish for Engineers 4	1	F2F	SPA2007 [P]
4	√			CHE4003	Process Control & Dynamics 1	3	ONLINE	CMP1003 [P], MAT3004 [T]
4	√			CHE4025	Chemical Engineering Plant Design & Economics I	2	F2F	CHE3004[P], CHE3008[P], CHE3012[P]
4	√			PRJ4029	Research Methods for Engineering Research	3	ONLINE	STA2023[T], COM2014[P]
4	√			xxxx	University Elective	3		
						15		

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	S1	S2	Sum					
4		√		CHE4026	Chemical Engineering Plant Design & Economics II	2	F2F	CHE4025 [P]
4		√		CHE3002	Mathematical Modelling	3	BLENDED	
4		√		PRJ4030	Engineering Research Project	3	F2F	PRJ4029 [T]
4		√		CHExxxx	Chemical Engineering Elective	3		
4		√		CHExxxx	Chemical Engineering Elective	3		
						14		
	√	√	√	ENG4010	Industrial Experience	2		
					Total	134		

Chemical Engineering Electives
(Two are to be selected)

YEAR [LEVEL]	PERIOD			MODULE CODE	MODULE TITLE	CREDIT HOURS	MODALITY
	S1	S2	Sum				
4		√		CHE4016	Air Pollution Control*	3	ONLINE
4		√		CHE4019	Remediation Technology*	3	ONLINE
4		√		CHE4023	Polymer Science for Engineering	3	ONLINE
4		√		CHE4013	Fermentation Technology	3	BLENDED

* Maximum 20 students per elective