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 (Access Options)			MODULE CODE	MODULE TITLE	CREDIT HOURS	MODALITY	PRE-REQUISITE MODULE CODE (Indicate - P (Pass) OR T (Taken))
	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