Module Code	Module Name	Credit Value	Modality
CHE4016	Air Pollution Control*	3	Online
CHE4019	Remediation Technology*	3	Online
CHE4023	Polymer Science for Engineering	3	Blended
CHE4013	Fermentation Technology	3	Blended
CHE4022	Inorganic Chemical Technology	3	Blended
CHE4018	Wastewater Treatment	3	Blended
CHE40XX	Process Control & Dynamics II	3	
*Maximum 20 students per elective			

1. **F2F = Face-to-Face**
2. **Blended = Face-to-Face & Online**
3. **Online = Online delivery mode only**
4. **Hybrid = Classes are held F2F while streaming online via a platform**

For Your Information

- 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.

****The modalities presented here are subject to change****

Revised July 2024

University of Technology, Jamaica
Module Selection Guide

School of Engineering

B.Eng. Chemical Engineering
AY 2024/25

Student's Name: ……...…….……...

Student's ID #: ……...…….…….

Academic Advisor's Name: ……...…….…….

Start Date: August 2024

Contact Information: chemicalengineering@utech.edu.jm
(876) 927-1680 **Ext: 2294**

Contact Persons: Mrs. Nickoe Boothe Thompson **(Programme Director)**
Mr. Omar Symister **(Programme Leader)**
Ms. Kimesha Chambers **(Programme Assistant)**

Module Code	Module Name	Prerequisite /Corequisite (if any)	CREDIT VALUE	Teaching Modality	Period		
					S1	S2	Sum
YEAR 1 – Semester 1 (21 Credits)							
COM1024	**Academic Literacy for Undergraduates**		3		√	√	√
MAT2018	**B Engineering Mathematics 1**	CAPE Math/ MAT1059 [P]	3		√		
PHS1005	Engineering Physics 1	CSEC Physics [P]	4		√		
CMP1003	**Computers in Engineering**		4		√		√
ENG1008	**Introduction to Engineering**		3		√		√
CHY2023	**General Chemistry II**	CAPE Chem/ General Chem 1 [P]	3		√		
CHY2024	**General Chemistry Lab**	CAPE Chem/ General Chem 1 [P]	1		√		
YEAR 1 – Semester 2 (21 Credits)							
CHY3024	Advanced Organic Chemistry	CHY2023 [P]	4			√	
CHE1001	**Elementary Principles of Chemical Engineering**	ENG1008 [P]/ PHA1001 [P]	4	Blended		√	
COM2016	**Critical Thinking, Reading & Writing**	COM1024 [P]	3		√	√	√
MAT2022	**B Engineering Mathematics 2**	MAT2018 [T]	3			√	
ENG1010	Engineering Design Fundamentals		3			√	
ENT3001	Entrepreneurship Skills		3			√	
CSP1001	Community Service Project		1		√	√	√
YEAR 2 – Semester 1 (20 Credits)							
SPA1001	**Spanish for Engineers 1**		3		√	√	
CHY2018	Physical Chemistry	CAPE Chem/ General Chem 1 [P]	4		√		√
MAT3004	**B Engineering Mathematics 3**	MAT2022 [P]	3		√		√
CHE3006	Chemical Reaction Engineering	MAT2022 [P], CHE1001 [P]	3		√		
CHE2001	Unit Operations 1	MAT2022 [P] CHE1001 [P]	4	Online		√	
ENG3001	Material Science 3 with Corrosion		3	F2F		√	
YEAR 2 – Semester 2 (19 Credits)							
SPA1002	**Spanish for Engineers 2**	SPA1001 [T]	3			√	
CHE3001	Unit Operations 3		3	Blended		√	
CHY3022	Analytical Chemistry	CAPE Chem/ General Chem 1 [P]	4			√	√
STA2023	**Engineering Statistics**		3			√	
CHE3012	**Unit Operations 2**		3	F2F		√	
CHE3003	**Chemical Engineering Thermodynamics 1**	CHE1001 [T] CHY2018 [T]	3	Blended		√	

Module Code	Module Name	Prerequisite /Corequisite (if any)	CREDIT VALUE	Teaching Modality	Period		
					S1	S2	Sum
YEAR 3 – Semester 1 (18 Credits)							
CHE3009	Bioreaction Engineering	CHE1001 [P]	3	F2F	√		
ENG4016	Management for Engineers		3		√	√	√
CHE3002	Mathematical Modeling	CHE1001 [T]	3	F2F	√		
CHE3008	**Unit Operations 5**	CHE1001 [P]	3	F2F	√		
CHE3004	**Unit Operations 4**	CHE1001 [T]	3	F2F	√		
CHE3015	Chemical Process Safety	CHE1001 [P]	3		√		
YEAR 3 – Semester 2 (12 Credits)							
SPA2007	**Spanish for Engineers 3**	SPA1002 [P]	3			√	
CHE2003	Unit Operations Laboratory 1	CHE3001 [P] CHE3012 [P]	1	F2F		√	
CHE2004	Chemical & Biological Process Principles		1	Blended		√	
CHE3014	Computational Methods in Chemical Engineering	CHE1001 [T]	3			√	
CHExxxx	Chemical Engineering Elective		3			√	
CHE3005	Unit Operations Laboratory II	CHE3004 [P] CHE3008 [P] CHE3012 [P]	1			√	
YEAR 4 – Semester 1 (15 Credits)							
SPA2006	Spanish for Engineers 4	SPA2007 [P]	1		√		
CHE4003	Process Control & Dynamics 1	CMP1003 [P], MAT3004 [T]	3	F2F	√		
CHE4025	**Chemical Engineering Plant Design & Economics I**	CHE3004 [P], CHE3008 [P], CHE3012 [P]	2	F2F	√		
PRJ4029	**Major Project- Research**	STA2023 [T], COM2016 [P]	3	Online	√		
xxxx	University Elective		3		√		
CHExxxx	Chemical Engineering Elective		3		√		
YEAR 4 – Semester 2 (13 Credits)							
CHE4026	Chemical Engineering Plant Design & Economics II	CHE4025 [P]	2	F2F		√	
PRJ4030	Major Project- Design	PRJ4029 [T]	3	F2F		√	
CHExxxx	Chemical Engineering Elective		3			√	
CHExxxx	Chemical Engineering Elective		3			√	
ENG4010	Industrial Experience		2		√	√	√
Total Number of Credits: 139							