



Dhofar University

College of Engineering

Department of Chemical Engineering

**Diploma in Chemical Engineering
Plan of Study**

September 2025



Diploma Study Plan

1- Program Statistics by Course Category

Course Category	No. of Courses	Credit Hours	Percentage of Total Credit Hours
University Requirements	6	18	19.57%
College Requirements	8	21	21.74%
Program Major Requirements	15	36	47.82%
Total	53	75	

2- Classification of Requirements

2.1 University Requirements

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
ENGL 101	Basic Academic English	3	FPE 103C	-
ENGL 102E	English for Engineering and Sciences I	3	ENGL 101	-
ENGL 203E	English for Engineering and Sciences II	3	ENGL 102E, ENGL 102C	-
ENTR 200	Entrepreneurship: Innovation and Creativity	3	ENGL 203E	-
MATH 199	Calculus I	3	FPE 103C, FPM 101A, FPM 102B	-
SOCS 102	Omani Society	3	FPE 103C, FPEL 100	-
Total Credits		18		

2.2 College Requirements

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
EECE 130	Computers and Programming I	3	FPE 103C, FPM 102B, FPT 102B	-
ENGR 100	Introduction to Engineering	3	FPE 103C, FPM 102B, FPT 102B	
ENGR 105	Engineering Graphics	2	FPE 103C	



ENGR 110	Engineering Workshop	1	FPE 103C, FPM 101A, FPM 102B	-
MATH 200	Calculus II	3	MATH 199	-
MATH 205	Calculus III	3	MATH 200	-
MATH 250E	Probability and Statistics	3	MATH 200	MATH 200
PHYS 170	Fundamentals of Physics I	3	MATH 199, MATH 103	MATH 199
Total Credits		21		

2.3 Program Major (Compulsory) Requirements

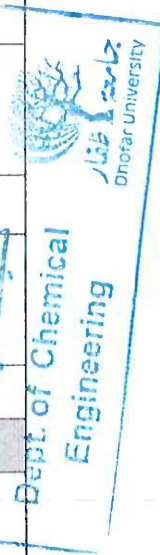
Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
CHEM 140	Chemistry I	3	FPE 103C, FPM 102B, FPT 102B	
CHEM 140L	Introductory Chemistry Laboratory	1	CHEM 140	CHEM 140
CHEM 180	Chemistry II	3	CHEM 140	
CHEM 210	Organic Chemistry I	3	CHEM 180	
CHEM 250	Organic Chemistry II	3	CHEM 210	
CHEM 250L	Organic Chemistry Laboratory	1	CHEM 250	CHEM 250
CHEM 260	Analytical Chemistry	3	CHEM 180	
CHEM 370	Physical Chemistry for Engineers	3	CHEM 180, MATH 200	
CHEE 201	Principles of Chemical Engineering	3	CHEM 140, MATH 199	
CHEE 208	Instrumentation	3	PHYS 170, CHEM 180	
CHEE 270	Fluid Mechanics for Chemical Engineers	3	PHYS 170, MATH 200	
CHEE 270L	Fluid Mechanics Laboratory	1	CHEE 270	CHEE 270
CHEE 275	Thermodynamics for Chemical Engineers	3	MATH 200, CHEM 140	
CHEE 280	Mass Transfer	3	CHEE 201, MATH 200	



CHEE 299	Diploma Practical Training	0	Senior Standing (Completed 90+ Crs)	
Total Credits		66		

3- Plan of Study

Year 1				
Course Code	Course Title	Credit Hours	Prerequisite	University/ College/Major/Elective requirements
<i>Fall</i>				
SOCS 102	Omani Society	3	FPE 103C + FPEL 100	U
ENGL 101	Basic Academic English I	3	FPE 103C	U
MATH 199	Calculus I	3	FPE 103C + FPM 101A + FPM 102B	U
CHEM 140	Chemistry I	3	FP	M
CHEM140L	Introductory Chemistry Laboratory	1	CHEM 140	M
ENGR 105	Engineering Graphics	2	FPE 103C	C
Total Credits		15		
<i>Spring</i>				
EECE 130	Computers and Programming I	3	FPE 103C + FPM 102B + FPT 102B	C
CHEM 180	Chemistry II	3	CHEM 140	M
ENGL 102E	English for Engineering and Sciences I	3	ENGL 101	U
ENGR 100	Introduction to Engineering	3	FPE 103C + FPM 102B + FPT 102B	C
MATH 200	Calculus II	3	MATH 199	C
ENGR 110	Engineering Workshop	1	FPE 103C + FPM 101A + FPM 102B	C
Total Credits		16		
<i>Summer</i>				
ENGL 203E	English for Engineering and Sciences II	3	ENGL 102E / ENGL 102C	U



MATH 205	Calculus III	3	MATH 200	C
MATH 250E	Probability and Statistics	3	MATH 200	C
Total Credits		9		
Year 2				
Course Code	Course Title	Credit Hours	Prerequisite	University/College/Major/Elective requirements
<i>Fall</i>				
CHEE 270	Fluid Mechanics for Chemical Engineers	3	PHYS 170, MATH 200	M
CHEM 260	Analytical Chemistry	3	CHEM 180	M
PHYS 170	Fundamentals of Physics I	3	MATH 199, MATH 103	C
CHEE 275	Thermodynamics for Chemical Engineers	3	MATH 200, CHEM 140	M
CHEE 201	Principles of Chemical Engineering	3	CHEM 140, MATH 199	M
CHEM 210	Organic Chemistry I	3	CHEM 180	M
Total Credits		18		
<i>Spring</i>				
CHEE 270L	Fluid Mechanics Laboratory	1	CHEE 270	M
ENTR 200	Introduction to Entrepreneurship	3	ENGL 203E	U
CHEE 208	Instrumentation	3	PHYS 170, CHEM 180	M
CHEM 370	Physical Chemistry for Engineers	3	CHEM 180, MATH 200	M
CHEE 280	Mass Transfer	3	CHEE 201, MATH 200	M
CHEM 250	Organic Chemistry II	3	CHEM 210	M
CHEM 250L	Organic Chemistry Laboratory	1	CHEM 250	M
Total Credits		17		
<i>Summer</i>				
CHEE 299	Diploma Practical Training	0		M
Total Credits		0		

Total Program Credit Hours 75

