

The Public Authority for Applied Education and Training

College of Technological Studies

Department : Laboratory Technology

Program Applied Chemistry

PROGRAM MAJOR SHEET

Current

Major Core Courses (42) Credits

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
75	110	General Chemistry	3	4	2	2	0	
75	112	Analytical Chemistry	3	4	2	2	0	75-110, 76-105
75	121	Inorganic Chemistry	3	4	2	2	0	75-110
75	130	Organic Chemistry	3	4	2	2	0	75-110
75	210	Instrumental Analysis (1)	3	5	1	4	0	75-112, 30-102
75	213	Instrumental Analysis (2)	3	5	1	4	0	75-112
75	215	Environmental Pollution	3	4	2	2	0	75-112
75	219	Nuclear & Radio Chemistry	2	2	2	0	0	75-110, 56-113
75	231	Physical Chemistry (1)	3	4	2	2	0	75-110
75	270	Computer App. in Chemistry	3	5	1	4	0	75-110, 75-130
75	312	Applied Analytical Chemistry	3	4	2	2	0	75-112
75	331	Applied Organic Chemistry	3	4	2	2	0	75-130
75	333	Petrol and Petrochemistry	3	4	2	2	0	75-130
75	399	Field Training	4	0	0	0	16	75-213
			42	53	23	30	16	

General Core Courses (18) Credits

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
30	102	Technical English Language	3	3	3	0	0	30-99
30	162	Writing Technical Reports	3	3	3	0	0	30-102
30	171	Communication Skills	3	3	3	0	0	30-102
30	99	English Language (1)	0	5	5	0	0	
56	113	General Physics	3	4	2	2	0	
76	105	Mathematics (1)	3	3	3	0	0	
76	106	Mathematics (2)	3	3	3	0	0	76-105
			18	19	17	2	0	

Total	Cr.	Hrs.
	75	87

Major Elective Courses (6) Credits

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Pre-req.
75	214	Sampling	1	2	0	2	
75	218	Polymers	3	3	3	0	75-130
75	216	Drug Analysis	3	4	2	2	75-112
75	217	Nutritional Analysis	3	4	2	2	75-112
75	232	Physical Chemistry (2)	3	4	2	2	75-231
75	241	Biochemistry	3	4	2	2	75-130
75	252	Glass Blowing	1	3	0	3	
75	272	Safety in Chemical Laboratories	2	2	2	0	
75	315	Literature Survey & Project	3	4	2	2	75-110, 30-102
76	151	Principles of Prob. and Statistics	2	2	2	0	76-105
76	156	Advanced Mathematics	3	3	3	0	76-106

General Elective Courses (3) Credits

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Pre-req.
3	112	Work Ethics and Loyalty	3	3	3	0	
7	141	Art Education (1)	1	2	0	2	
7	142	Art Education (2)	1	2	0	2	07-141
8	110	Physical Education	1	2	0	2	
10	104	Library and Research	1	2	0	2	
13	151	Music Education	1	2	0	2	
15	114	Industrial Psychology	2	2	2	0	
21	164	Accounting	2	2	2	0	
22	104	Small Business Management	2	2	2	0	
27	166	Industrial Economics	2	2	2	0	

General Culture Courses (6) Credits

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Pre-req.
1	101	Islamic Culture	2	2	2	0	
75	105	Scientific culture	2	2	2	0	
81	298	Industrial Safety	2	2	2	0	30-102
			6	6	6		