



B. Sc. Marine Chemistry Programme

Programme Structure and Organization



Year One

Semester 1					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
MATH 110	Mathematics	3	-	3	-
MP 101	Essentials of Marine Physics	2	3	3	-
ELIG 101	Intensive English (1)	15	-	3	-
ARAB 101	Arabic Language	3	-	3	-
MG 101	Essentials of Marine Geology	2	3	3	-
Total				15	

Semester 2					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
MS 101	Academic Skills in Marine Sciences	3	-	3	-
MC 101	Essentials of Marine Chemistry	2	3	3	-
MB 101	Essentials of Marine Biology	2	3	3	-
ELIG 102	Intensive English (2)	15	-	3	ELIG 101
ARAB 201	Arabic Language	3	-	3	ARAB 101
Total				15	

Year Two

Semester 3					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
ISLS 101	Islamic Culture (1)	2	-	2	-
MSC 201	An Introduction to Marine Pollution	2	-	2	-
MSC 202	Dynamics of Marine Ecosystems	2	-	2	-
MS 202	Marine Ecology	3	-	3	MB 101 + MG 101 + MP 101 + MC 101
CPIT110	Problem solving and programing	3	-	3	-
CHEM110	General Chemistry	3	-	3	-
	Free Course	-	-	2	-
Total				17	

Semester 4					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
ISLS 201	Islamic Culture (2)	2	-	2	ISLS 101
MSC 203	Statistical techniques for Oceanographers	2	3	3	MATH 110
MSC 204	Oceanographic Data Processing	2	3	3	-
MSC 205	An Introduction to Remote Sensing in Marine Environment	2	-	2	-
MSC 206	An Introduction to Integrated Coastal Zone Management	2	-	2	-
MSC 207	Marine Resources	2	3	3	-
	Free Course	-	-	2	-
Total				17	

Year Three

Semester 5					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
ISLS 301	Islamic Culture (3)	2	-	2	ISLS 201
MSC 307	Environmental impact assessment	2	3	3	MSC 206
CHEM 202	General Chemistry 2	3	3	4	CHEM 110
CHEM 231	Organic Chemistry	3	3	4	CHEM 110
MC 340	Marine Bio-organic Chemistry	1	-	1	CHEM 110
MC 341	Marine Chemistry	2	-	2	CHEM 110
	Free Course	-	-	1	-
Total				17	

Semester 6					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
ISLS 401	Islamic Culture (4)	2	-	2	ISLS 301
MSC 308	Cooperative and Field Training	1	3	2	MSC 207 + MSC 307
CHEM 211	Volumetric and Gravimetric Analysis	3	3	4	CHEM 110
MC 342	Marine pollution	2	3	3	MSC 201
MC 343	Marine Organic Chemistry	2	3	3	CHEM 231+ MC 340
Elective	Student may select from the elective courses	-	-	3	-
Total				17	

Year Four

Semester 7					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
MC 440	Marine Instrumental and Analytical Chemistry	2	3	3	CHEM 211
MC 441	Marine Geochemistry	2	-	2	MC 343
MC 442	Cycle of Elements in Sea Water	2	3	3	MC 101+ MC 341
MC 443	Marine Biochemistry	2	3	3	MC 343 + MC 340
MC 444	Chemistry of Marine Natural Products	2	3	3	CHEM 231+ MC 343
MC 445	Oceanography of Regional Seas	1	-	1	-
Elective	Student may select from the elective courses	-	-	3	-
Total				18	

Semester 8					
Code	Course Title	Units			Prerequisites
Mandatory	Student must do the following courses	Lec.	Prac.	Credits	
MC 446	Water quality	1	3	2	MSC 201
MC 447	Application of Electrochemistry in Marine Sciences	1	3	2	MC 341
MC 448	Chemistry of Coastal Water and limnology	2	3	3	MC 442 + MC 441
MC 449	Stable isotopes Geochemistry	2	-	2	CHEM 202 + MC 441
MC 499	Research Project	4	-	4	-
Elective	Student may select from the elective courses	-	-	3	-
Total				16	



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Elective Courses

Code	Course Title	Units			Prerequisites
		Lec.	Prac.	Credits	
Elective	Student may select 9 credits from 16 credits				
MS 201	Oceanography	3	-	3	-
MC 450	Chemistry of Marine Biotechnology	2	-	2	MC 443
MC 451	Applications of Nanotechnology in Marine Chemistry	2	-	2	MSC 201
MC 452	Trace Metals in Sea water	2	3	3	MC 341
MB 313	Principles of Swimming and Diving	1	3	2	-
MP 365	Integrated Coastal Zone Management	2	-	2	-
MB 312	Principles of Aquaculture	2	-	2	MB 101
Total				16	