

Plan of Study: BS in Chemistry

Year I		
Semester 1 (Fall)		16 Credits
Code	Course Title	Credit Hours
CHEM 130	Chemical Principles I	3
CHEM 130L	Introductory Chemistry Laboratory	1
CMPS 100B	Introduction to Technical Computing for the Sciences	3
ENGL 101	Basic Academic English	3
MATH 199	Calculus I	3
SOCS 102	Omani Society	3
Semester 2 (Spring)		16 Credits
Code	Course Title	Credit Hours
ARAB 101	Academic Writing in Arabic	3
CHEM 170	Chemical Principles II	3
ENGL 102E	English for Engineering and Sciences I	3
MATH 200	Calculus II	3
PHYS 170	Fundamentals of Physics I	3
PHYS 170L	Introductory Physics Laboratory	1
Year II		
Semester 3 (Fall)		15 Credits
Code	Course Title	Credit Hours
CHEM 210	Organic Chemistry I	3
ENGL 203E	English for Engineering and Sciences II	3
MATH 205	Calculus III	3
ENTR 200	Entrepreneurship: Innovation & Creativity	3
Code	General Elective*	3
Semester 4 (Spring)		15Credits
Code	Course Title	Credit Hours
CHEM 250	Organic Chemistry II	3
CHEM 255	Organic Chemistry Laboratory	4
CHEM 260	Analytical Chemistry	3
CHEM 265	Analytical Chemistry Laboratory	2
ENGL 204	Advanced English for Academic Purposes and Research	3

Year III		
Semester 5 (Fall)		16 Credits
Code	Course Title	Credit Hours
CHEM 330	Chemical Dynamics and Thermodynamics	3
ENGL 360	Advanced Writing for Professional Fields	3
MATH 210	Differential Equations	3
PHYS 210	Fundamentals of Physics II	3
PHYS 210L	Physics Laboratory II	1
Code	General Elective	3
Semester 6 (Spring)		16Credits
Code	Course Title	Credit Hours
CHEM 355	Quantum Chemistry	3
CHEM 360	Inorganic Chemistry	3
PHYS 275	Electronic Instrumentation	3
PHYS 275L	Electronic Instrumentation Laboratory	1
ENGL 305	Communication Skills	3
Code	General Elective	3
Year IV		
Semester 7 (Fall)		13 Credits
Code	Course Title	Credit Hours
CHEM 410	Advanced Physical Chemistry Laboratory	3
CHEM 420	Biochemistry	3
CHEM 440	Research Project	4
Code	Major Elective	3
Semester 8 (Spring)		13Credits
Code	Course Title	Credit Hours
CHEM 455	Inorganic Chemistry Laboratory	3
CHEM 480	Chemistry Seminar	1
Code	Major Elective	3
Code	Major Elective	3
Code	Physical/ Natural Sciences Elective	3
Total Credits for the Bachelor degree: 120 credit hrs		

*A course in programming, Computer Science CMPS 110, is highly recommended for Chemistry majors.