

## Plan of Study: BS in Mathematics

<b>Year I</b>		
<b>Semester 1 (Fall)</b>		<b>15 Credits</b>
<b>Code</b>	<b>Course Title</b>	<b>Credit Hours</b>
ARAB 101	Academic Writing in Arabic	3
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
<b>Semester 2 (Spring)</b>		<b>17 Credits</b>
<b>Code</b>	<b>Course Title</b>	<b>Credit Hours</b>
CHEM 130	Chemical Principles I	3
CHEM 130L	Introductory Chemistry Laboratory	1
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
MATH 240	Mathematics Computer Applications I	3
<b>Year II</b>		
<b>Semester 3 (Fall)</b>		<b>15 Credits</b>
<b>Code</b>	<b>Course Title</b>	<b>Credit Hours</b>
ENGL 203E	English for Engineering and Sciences II	3
MATH 205	Calculus III	3
MATH 250	Probability and Statistics	3
ENTR 200	Entrepreneurship: Innovation & Creativity	3
Code	General Elective*	3
<b>Semester 4 (Spring)</b>		<b>15 Credits</b>
<b>Code</b>	<b>Course Title</b>	<b>Credit Hours</b>
ENGL 204	Advanced English for Academic Purposes and Research	3
MATH 210	Differential Equations	3
MATH 255	Statistical Inference	3
MATH 260	Numerical Analysis I	3
MATH 120	Geometry and Trigonometry	3

<b>Year III</b>		
<b>Semester 5 (Fall)</b>		<b>16 Credits</b>
<b>Code</b>	<b>Course Title</b>	<b>Credit Hours</b>
MATH 305	Advanced Calculus	3
MATH 320	Linear Algebra I	3
PHYS 210	Fundamental of Physics II	3
PHYS 210L	Physics Lab II	1
Code	Major Elective	3
Code	Major Elective	3
<b>Semester 6 (Spring)</b>		<b>15 Credits</b>
<b>Code</b>	<b>Course Title</b>	<b>Credit Hours</b>
CHEM 170	Chemical Principals II	3
MATH 360	Linear Algebra II	3
MATH 370	Discrete Mathematics	3
ENGL 305	Advanced English Language and Communication Skills	3
Code	Major Elective	3

<b>Year IV</b>		
<b>Semester 7 (Fall)</b>		<b>15 Credits</b>
<b>Code</b>	<b>Course Title</b>	<b>Credit Hours</b>
MATH 415	Abstract Algebra I	3
Code	Major Elective	3
Code	Major Elective	3
Code	Physical and Natural Sciences Elective	3
Code	General Elective	3
<b>Semester 8 (Spring)</b>		<b>13 Credits</b>
<b>Code</b>	<b>Course Title</b>	<b>Credit Hours</b>
MATH 470	Complex Analysis	3
MATH 490	Mathematics Seminar	1
Code	Major Elective	3
Code	Major Elective	3
Code	Humanities and Social Science Elective	3
<b>Completion of the BS in Mathematics - Total Credits 121-122</b>		

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