

## BS Mathematics - Pure/Applied Track

(Graduating in an even year)

Course	Title	Cr-hr
✓ <b>Fall Semester - Year 1</b>		
✓ MATH 1121	<b>Calculus I</b>	4
✓ ENGL 1101	English Composition I	3
✓ CHEM 1211/L	Principles of Chemistry I and Lab	4
✓ POLS 1101	American Government	3
✓ GLOB 1001	Global Issues	1
<b>Total</b>		<b>15</b>
<b>Milestones</b>		
Complete Area A2 math		
Finish first semester!		

✓ <b>Fall Semester - Year 2</b>		
✓ MATH 2123	<b>Calculus III</b>	4
✓ MATH 2124	<b>Linear Algebra</b>	3
✓ PHYS 2211/L	Principles of Physics I and Lab	4
✓ ENGL21XX	Literature	3
✓ PE/WELL	Wellness Requirement	2
<b>Total</b>		<b>16</b>
<b>Milestones</b>		

✓ <b>Fall Semester - Year 3</b>		
✓ MATH 4011	<b>Real Analysis I</b>	3
	<b>Directed Elective (e.g. History of Math, Topology)</b>	
✓ MATH XXXX		3
✓ Elective	<b>Electives (e.g. Operations Research, Database Managemetn Systems)</b>	3
✓ Elective		3
✓ Area C	Humanities/Fine Arts (Elective)	3
<b>Total</b>		<b>15</b>
<b>Milestones</b>		
Complete all Area C requirements		
Apply for graduation (of associate degree)		

✓ <b>Fall Semester - Year 4</b>		
✓ MATH 3250	<b>Discrete Mathematics</b>	3
✓ MATH 3110	<b>Abstract Algebra I</b>	3
✓ Elective	<b>Electives (e.g. Programming in C# for Scientific Computing, Numerical Analysis, Macroeconomics)</b>	3
✓ Elective		3
✓ Elective		3
<b>Total</b>		<b>15</b>
<b>Milestones</b>		
Apply for graduation (of bachelor degree)		
Apply for graduate programs		

Course	Title	Cr-hr
✓ <b>Spring Semester - Year 1</b>		
✓ MATH 1122	<b>Calculus II</b>	4
✓ ENGL 1102	English Composition II	3
✓ CHEM 1212/L	Principles of Chemistry II and Lab	4
✓ MATH 1401	<b>Elementary Statistics</b>	3
✓ Area B	Institutional Elective	3
<b>Total</b>		<b>17</b>
<b>Milestones</b>		
Earn the STEM First Year Certificate		
Achieve sophomore status (30 or more credit hours)		

✓ <b>Spring Semester - Year 2</b>		
✓ MATH 2403	<b>Differential Equations</b>	4
✓ MATH 3000	<b>Logic and Proof</b>	3
✓ PHYS 2212/L	Principles of Physics II and Lab	4
✓ HIST211X	U.S. History I or U.S. History II	3
<b>Total</b>		<b>14</b>
<b>Milestones</b>		
Complete first upper level math course		
Achieve junior status (60 or more credit hours)		

✓ <b>Spring Semester - Year 3</b>		
✓ MATH 4060	<b>Complex Variables</b>	3
✓ MATH XXXX	<b>Directed Electives (e.g. Real Analysis II, Mathematical Modeling, Prob. &amp; Stats II)</b>	3
✓ MATH XXXX		3
✓ Area E	Social Science (Elective)	3
✓ Area E	Social Science (Elective)	3
<b>Total</b>		<b>15</b>
<b>Milestones</b>		
Earn an Associate of Science degree!		
Achieve senior status (90 or more credit hours)		

✓ <b>Spring Semester - Year 4</b>		
✓ MATH 4450	<b>Number Theory</b>	3
✓ MATH XXXX	<b>Directed Electives (e.g. Abstract Algebra II, Modern Geometry, MATLAB)</b>	3
✓ MATH XXXX		3
✓ MATH 4200	<b>Undergraduate Seminar in Math</b>	2
✓ Elective	<b>Elective (e.g. Physical Geology)</b>	4
<b>Total</b>		<b>15</b>
<b>Milestones</b>		
Complete all degree requirements		
Earn a Bachelor of Science degree!		

TRACK TOTAL 122