

BS Mathematics - Scientific Computing Concentration

(Starting with Precalculus and graduating in an even year)

Course	Title	Cr-hr
✓ Fall Semester - Year 1		
✓ MATH 1113	Precalculus	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
Total		15
Milestones		
Complete Area A2 math		
Finish first semester!		

✓ Fall Semester - Year 2		
✓ MATH 1122	Calculus II	4
✓ MATH 2124	Linear Algebra	3
✓ PHYS 2211/L	Principles of Physics I and Lab	4
✓ CSCI 1371	Computing for Scientists and Engineers	3
✓ ENGL21XX	Literature	3
Total		17
Milestones		

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

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

Course	Title	Cr-hr
✓ Spring Semester - Year 1		
✓ MATH 1121	Calculus I	4
✓ ENGL 1102	English Composition II	3
✓ CHEM 1212/L	Principles of Chemistry II and Lab	4
✓ MATH 1401	Elementary Statistics	3
✓ HIST211X	U.S. History I or U.S. History II	3
Total		17
Milestones		
Earn the STEM First Year Certificate		
Achieve sophomore status (30 or more credit hours)		

✓ Spring Semester - Year 2		
✓ MATH 2123	Calculus III	4
✓ MATH 2403	Differential Equations	4
✓ MATH 3000	Logic and Proof	3
✓ PHYS 2212/L	Principles of Physics II and Lab	4
✓ PE/WELL	Wellness Requirement	2
Total		17
Milestones		
Complete first upper level math course		
Achieve junior status (60 or more credit hours)		

✓ Spring Semester - Year 3		
✓ MATH 4060	Complex Variables	3
MATH/CSCI ✓ XXXX	Directed Electives (e.g. Mathematical Modeling, Probability and Statistics II, Data Visualization)	3
MATH/CSCI ✓ XXXX		3
✓ Area E	Social Science (Elective)	3
✓ Area E	Social Science (Elective)	3
Total		15
Milestones		
Earn an Associate of Science degree!		
Achieve senior status (90 or more credit hours)		

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