BS Mathematics - Scientific Computing Concentration

(Graduating in an even year)

✓ Fall Semester - Year 1

	Course	Title	Cr-hr
✓	MATH 1121	**Calculus I**	4
✓	ENGL 1101	English Composition I	3
✓	CHEM 1211/L	Principles of Chemistry I and Lab	4
✓	CSCI 1371	**Computing for Scientists and Engineers**	3
✓	GLOB 1001	Global Issues	1
		Total	**15**

Milestones

Complete Area A2 math
Finish first semester!

✓ Spring Semester - Year 1

	Course	Title	Cr-hr
✓	MATH 1122	**Calculus II**	4
✓	ENGL 1102	English Composition II	3
✓	CHEM 1212/L	Principles of Chemistry II and Lab	4
✓	MATH 1401	**Elementary Statistics**	3
✓	POLS 1101	American Government	3
		Total	**17**

Milestones

Earn the STEM First Year Certificate
Achieve sophomore status (30 or more credit hours)

✓ Fall Semester - Year 2

✓	MATH 2123	**Calculus III**	4
✓	MATH 2124	**Linear Algebra**	3
✓	PHYS 2211/L	Principles of Physics I and Lab	4
✓	ENGL21XX	Literature	3
✓	PE/WELL	Wellness Requirement	2
		Total	**16**

Milestones

✓ Spring Semester - Year 2

✓	MATH 2403	**Differential Equations**	4
✓	MATH 3000	**Logic and Proof**	**3**
✓	PHYS 2212/L	Principles of Physics II and Lab	4
✓	HIST211X	U.S. History I or U.S. History II	3
		Total	**14**

Milestones

Complete first upper level math course
Achieve junior status (60 or more credit hours)

✓ 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)

✓ 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)

✓ 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

✓ 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!

TRACK TOTAL 122