BS Mathematics - Scientific Computing Concentration

(Starting with Precalculus and graduating in an odd year)

Cr-hr

	Course	Title
✓	Fall Semester -	Year 1
>	MATH 1113	Precalculus
\	ENGL 1101	English Composition I
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√	MATH 1113	Precalculus	4
/	ENGL 1101	English Composition I	3
1	CHEM 1211/L	Principles of Chemistry I and Lab	4
\checkmark	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	
1	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 3250	Discrete Mathematics	3
		Abstract Algebra I	
\checkmark	MATH 3110		3
	MATH/CSCI	Directed Elective (e.g. Numerical Analysis,	
\checkmark	XXXX	Programming in C#)	3
√	Area C	Humanities/Fine Arts (Elective)	3
\checkmark	Area E	Social Science (Elective)	3
		Total	15

Milestones

Complete all Area C requirements Apply for graduation (of associate degree)

/ Fall Semester - Year 4

√	MATH 4011	Real Analysis I	3	
√	MATH/CSCI XXXX	Directed Electives (e.g. Operations Research, Database Management Systems)	3	
√	Elective	Electives (e.g. Critical Thinking, History of	3	
√	Elective	Math, Topology, Topics in Math, Topics in Computer Programming)	3	
✓	Elective	Computer Programming)	3	
		Total	15	
Mi	Milestones			

Apply for graduation (of bachelor degree) Apply for graduate programs

Course Title ✓ Spring Semester - Year 1

	MATH 1121	Calculus I		4
V	ENGL 1102	English Composition II		(1)
1	CHEM 1212/L	Principles of Chemistry II and Lab		4
1	MATH 1401	Elementary Statistics		3
1	HIST211X	U.S. History I or U.S. History II		3
			Total	17

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

✓ Spring Semester - Year 2

√	MATH 2123	Calculus III	4
1	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
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Complete first upper level math course Achieve junior status (60 or more credit hours)

✓ Spring Semester - Year 3

1	MATH 4450	Number Theory	3
	MATH/CSCI	Directed Elective (e.g. MATLAB/ C# Seminar,	
√	XXXX	Introduction to R)	3
		Elective (e.g. Modern Geometry, Abstract	
\checkmark	Elective	Algebra II)	3
√	Area B	Institutional 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 4060	Complex Variables	3
1	MATH/CSCI XXXX	Directed Electives (e.g. Real Mathematical Modeling , Prob & Stats II, Data	3
	MATH/CSCI	Visualization)	
V	XXXX		3
>	MATH 4200	Undergraduate Seminar in Math	2
√	Elective	Elective (e.g. Physical Geology)	4
		Total	15

Complete all degree requirements Earn a Bachelor of Science degree! Cr-hr