



Department of Computer Science & Mathematics

B.S. in Mathematics (Mathematical Sciences Track) — 4-Year Sample Course Plan

For detailed course descriptions, prerequisites, and other information about degree requirements, please see the latest edition of the USCB University Bulletin, available at <https://www.uscb.edu/registrar/university-bulletin/>

Fall Semester	Credit Hours	Spring Semester	Credit Hours
First Year			
ENGL B101: Composition & Rhetoric or ENGL B105: Enhanced Comp. & Rhet.	3	ENGL B102: Composition & Literature or ENGL B106: Enhanced Comp. & Lit.	3
MATH B115: Pre-Calculus**	4	MATH B141: Calculus I	4
CSCI B102: Intro to HTML/CSS or CSCI B104: Comp. Prog. Techniques or CSCI B145: Java/Object-oriented Prog. I	3	MATH B174: Discrete Math	3
General Education (GE) Elective <small>(Liberal Arts, History, Fine Arts, Social/Behavioral Sciences, Speech, Foreign Language, Global Citizenship & Multicultural Understanding)</small>	3	General Education (GE) Elective <small>(Liberal Arts, History, Fine Arts, Social/Behavioral Sciences, Speech, Foreign Language, Global Citizenship & Multicultural Understanding)</small>	3
General Education (GE) Elective <small>(Liberal Arts, History, Fine Arts, Social/Behavioral Sciences, Speech, Foreign Language, Global Citizenship & Multicultural Understanding)</small>	3	General Education (GE) Elective <small>(Liberal Arts, History, Fine Arts, Social/Behavioral Sciences, Speech, Foreign Language, Global Citizenship & Multicultural Understanding)</small>	3
Semester Total	16	Semester Total	16
Second Year			
MATH B142: Calculus II	4	MATH B240: Calculus III	4
PHYS B211+B211L: Essentials of Physics I (w/Lab)	4	MATH B242: Differential Equations	3
MATH B230: Linear Algebra	3	MATH B300: Intro to Proof	3
General Education (GE) Elective <small>(Liberal Arts, History, Fine Arts, Social/Behavioral Sciences, Speech, Foreign Language, Global Citizenship & Multicultural Understanding)</small>	3	General Education (GE) Elective <small>(Liberal Arts, History, Fine Arts, Social/Behavioral Sciences, Speech, Foreign Language, Global Citizenship & Multicultural Understanding)</small>	3
		General Education (GE) Elective <small>(Liberal Arts, History, Fine Arts, Social/Behavioral Sciences, Speech, Foreign Language, Global Citizenship & Multicultural Understanding)</small>	3
Semester Total	14	Semester Total	16
Third Year			
STAT B340: Probability & Stats	3	MATH 410: Abstract Algebra I	3
MATH B331: Foundations of Geometry	3	MATH 450: Analysis I	3
MATH 401: History of Mathematics	3	Any MATH 300-level or 400-level Course	3
General Education (GE) Elective <small>(Liberal Arts, History, Fine Arts, Social/Behavioral Sciences, Speech, Foreign Language, Global Citizenship & Multicultural Understanding)</small>	3	General Education (GE) Elective <small>(Liberal Arts, History, Fine Arts, Social/Behavioral Sciences, Speech, Foreign Language, Global Citizenship & Multicultural Understanding)</small>	3
General Education (GE) Elective <small>(Liberal Arts, History, Fine Arts, Social/Behavioral Sciences, Speech, Foreign Language, Global Citizenship & Multicultural Understanding)</small>	3	Free Elective	3
Semester Total	15	Semester Total	15
Fourth Year			
MATH 411: Abstract Algebra II or MATH B451: Analysis II	3	MATH 480: Senior Seminar	3
Any MATH 300-level or 400-level Course	3	Any MATH 300-level or 400-level Course	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	1-3
Semester Total	15	Semester Total	13-15
Minimum Total Hours Required for Graduation from USCB			120
<i>**MATH B115 (Pre-Calculus) is not a degree requirement, but may be needed as pre-requisite for Calculus I, depending on results of Mathematics placement test</i>			