

BS Mathematics w/Computational Math Roadmap

Program	Bachelor of Science: Mathematics w/Computational Math Emphasis
Total Credits	120
Catalog	2023-2024

The plan below is **one** of several possible ways for you to complete this degree.

Your individualized plan may look different if you have already fulfilled some requirements.

Your Financial Aid Award may require additional term credits for full-time funding.

You must complete all university and program requirements successfully to complete this degree (GPA, 120 credits, LASC, WI, residency)

Curriculum	Course	Course Title	Credits	Take When	Total Credits
120.00					

1st Year

Core Requirement:	LASC 4	MATH 261	Calculus I	4.00	1st Fall	15.00
Core Requirement:		MATH 260	Computer Calculus	1.00	1st Fall	
Related Requirement:		CSIS 152	Intro to Computers & Programming Ia	3.00	1st Fall	
	First-Year Experience Course	FYE 101	First Year Experience	1.00	1st Fall	
	LASC 1B	ENGL 101	English Composition	3.00	1st Fall	
	LASC 1A	COMM 100	Speech Communication	3.00	1st Fall	
Core Requirement:	LASC 4	MATH 262	Calculus II	4.00	1st Spring	13.00
Core Requirement:		MATH 311	Intro to Proof & Abstract Math	3.00	1st Spring	
Related Requirement:		CSIS 153	Intro to Computers & Programming Ib	3.00	1st Spring	
	LASC			3.00	1st Spring	

2nd Year

Core Requirement:		MATH 323	Multi-Variable & Vector Calculus	4.00	2nd Fall	17.00
Core Requirement:		MATH 335	Intermediate Probability & Statistics I	4.00	2nd Fall	
Related Requirement:		CSIS 252	Intro to Computers & Programming II	3.00	2nd Fall	
	LASC			3.00	2nd Fall	
	LASC			3.00	2nd Fall	
Core Requirement:		MATH 327	Intro to Linear Algebra	3.00	2nd Spring	13.00
Core Requirement:		MATH 291	LaTex	1.00	2nd Spring	
CSIS Elective:		CSIS ***	CSIS 304/335/336/349/352/360/446/450	3.00	2nd Spring	
	LASC			3.00	2nd Spring	
	LASC/WI			3.00	2nd Spring	

3rd Year

Core Requirement:		MATH 361/435	Intermediate Analysis or Mathematical Stats I	4.00	3rd Fall	16.00
Restricted Elective:		MATH ***	300-level or higher	3.00	3rd Fall	
CSIS Elective:		CSIS ***	CSIS 304/335/336/349/352/360/446/450	3.00	3rd Fall	
	LASC			3.00	3rd Fall	
	LASC/WI			3.00	3rd Fall	
Core Requirement:		MATH 366	Differential Equations	3.00	3rd Spring	15.00
Core Requirement:		MATH 355	Mathematical Modeling	3.00	3rd Spring	
Writing Intensive:	200-level or higher			3.00	3rd Spring	
	LASC			3.00	3rd Spring	
	LASC			3.00	3rd Spring	

4th Year

Core Requirement:		MATH 450	Numerical Analysis I	4.00	4th Fall	16.00
Restricted Elective:		MATH ***		3.00	4th Fall	
	LASC			3.00	4th Fall	
General Elective/Minor Course:				3.00	4th Fall	
General Elective/Minor Course:				3.00	4th Fall	
Core Requirement:	WI for major	MATH 491	Mathematical Writing	3.00	4th Spring	15.00
Restricted Elective:		MATH ***		3.00	4th Spring	
General Elective/Minor Course:				3.00	4th Spring	
General Elective/Minor Course:				3.00	4th Spring	
General Elective/Minor Course:				3.00	4th Spring	

NOTES:

Math elective can be any 300 or 400 level math course except for MATH 303, 304, 306, 316, 401, 406, 416, 486.

Elective courses may be chosen to fulfill a minor or second major.

One upper level sequence required:

311, 411

327, 427

361, 362

366, 466

476, 477