



College of Arts and Sciences
Department of Mathematical Sciences
2024-2025

This four year guide is a recommended semester-by semester plan of study for this major. All four year guides are meant as examples of how a degree can be completed in four years. Individual plans will be developed for each student in consultation with the academic advisor. Prior credit, course availability, and student needs must be considered in developing the individual plan.

Shaded areas of guide require special attention.

Course Subject and Title

Credit Hours Required Required GPA

Course Subject and Title

Credit Hours Required Requi

		Semes	ter One:	[15 Credit Hours]
UCO 1200	3			May take in fall or spring semester of first year
MAT 1110	4	C-	Х	Also meets <b>Gen Ed Quantitative Literacy</b> requirement; Minimum C- required as prerequisite to MAT 1120
Liberal Studies Experience Course 1	3			HS or LS or FA or SS Designation
Gen Ed Science Inquiry	4			
Gen Ed Wellness Literacy Course	1			
		Semes	ter Two:	[16 Credit Hours]
RC 1000	3			May take in fall or spring semester of first year
MAT 1120	4	C-	Х	
CS 1440	4	С	Х	Minimum grade C required as prerequisite to CS 2440
Gen Ed Science Inquiry	4			
Gen Ed Wellness Literacy Course	1			
		Semest	er Three	[14 Credit Hours]
RC 2001	3			May take in fall or spring semester of sophomore year
MAT 2110	4		Х	
MAT 2130	4		Х	
MAT 2240	3		Х	
		Semes	ter Four:	[14 Credit Hours]
MAT 3110 or 3220	3		Х	[WID] Writing in the Discipline
STT 3250 or 3850	4		Х	
CS 1100	3			Corequisite for CS 2440
CS 2440	4	С	Х	Minimum grade C required as prerequisite to CS 3430 & 3460
		Semes	ter Five:	[15 Credit Hours]
MAT 2310	3		Х	Offered Fall semesters only
CS 3430	3		Х	
CS 3460	3		Х	
MAT 3130 or 3310	3		Х	
Integrative Learning Experience Course 1	3			HS or LS or FA or SS Designation
		Seme	ster Six: [	15 Credit Hours]
MAT 4310	3		Х	Offered Spring semester only
Computational Concentration Elective 1	3		х	Choose courses (minimum of 9 hours) from any 2000 level and above CS courses excluding CS 3520 and CS 4900, approved computational courses in the sciences, or any courses in the Major Electives list not used to satisfy previous requirements.

## BS, Mathematics, Computation

BS\_260E

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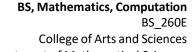
Degree Works

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Course Subject and Title	Credit Hours	Min. Grade Required	Included in Major GPA	Important Notes POS = Program of Study
Computational Concentration Elective 2	3		Х	Choose courses (minimum of 9 hours) from any 2000 level and above CS courses excluding CS 3520 and CS 4900, approved computational courses in the sciences, or any courses in the <b>Major Electives</b> list not used to satisfy previous requirements.
Integrative Learning Experience Course 2	3			HS or LS or FA or SS Designation
Liberal Studies Experience Course 2	3			HS or LS or FA or SS Designation
		Semeste	er Seven:	[16 Credit Hours]
MAT 4040	1		X	[CAP] Capstone; The capstone course has a co-requisite of concurrent enrollment in an associated 4000 level course chosen from the Depth Requirements or Major Electives
Depth Requirements Course	3		Х	Choose from list of <b>Depth Requirements</b> area on POS; A total of 3 hours in this area is required
Major Elective Course	3		Х	Choose from list of <b>Major Electives</b> area on POS; A total of 3 hours of electives required
Computational Concentration Elective 3	3		Х	Choose courses (minimum of 9 hours) from any 2000 level and above CS courses excluding CS 3520 and CS 4900, approved computational courses in the sciences, or any courses in the <b>Major Electives</b> list not used to satisfy previous requirements.
Free Elective	3			
Free Elective	3			
		Semest	er Eight: [	15 Credit Hours]
Integrative Learning Experience Course 3	3			
Liberal Studies Experience Course 3	3			
Liberal Studies Experience Course 4	3			
Free Elective	3			
Free Elective	3*			*Must take enough hours to reach the minimum 120 required for the degree

General Requirements Summary							
Minimum Gen Ed. Total Hours Hours		Minimum					
	Writing	Major GPA	Overall GPA				
120	44	RC 1000 and RC 2001	2.0	2.0			





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	Credit	Min.	Included	Important Notes
Course Subject and Title	Hours	Grade Required	in Major GPA	POS = Program of Study

## All MAT and STT courses and all courses in Major Requirements area on Program of Study count in major GPA.

General Education Program Model - 44 S	Semester Hours Tot	tal
Program Categories	Hours	Important Notes – Be sure to check for Gen Ed courses required in your major
First Year Seminar	3	Can be taken first or second semester of freshman year
Wellness Literacy	2	
Quantitative Literacy	4	
First Year Writing	3	Can be taken first or second semester of freshman year
Sophomore Writing	3	
Integrative Learning Experience	9	Must choose a minimum of two disciplines
Liberal Studies Experience	12	Must choose a minimum of three disciplines
Science Inquiry	8	

You must also meet the Fine Arts, Literary Studies, Historical Studies, and the Social Science Designations. Those may be met within the Integrative Learning Experience and the Liberal Studies Experience.

## **Additional Notes:**

- Residency Requirements:
  - o 30 hours must be from ASU
  - o 18 hours in the major must be from ASU
  - 9 hours in the minor must be from ASU