BS, Mathematics, Computation



BS_260E College of Arts and Sciences Department of Mathematical Sciences 2020-2021

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.

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

		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 Gen Ed Quantitative Literacy 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 course	1			
		Semes	ter Two:	[15 Credit Hours]
RC 1000	3			May take in fall or spring semester of first year
MAT 1120	4	C-	Х	
Gen Ed Science Inquiry	4			
Integrative Learning Experience Course 1	3			
Gen Ed Wellness Literacy Course	1			
		Semest	er Three :	[17 Credit Hours]
RC 2001	3			May take in fall or spring semester of sophomore year
MAT 2240	3		Х	
CS 1440	4	С	Х	Minimum grade C required as prerequisite to CS 2440
MAT 2110	4		Х	
Liberal Studies Experience Course 2	3			HS or LS or FA or SS Designation
		Semes	ter Four:	[14 Credit Hours]
MAT 3110 or MAT 3220	3		Х	[WID]
STT 3850	4		Х	
CS 2440	4	С	Х	Minimum grade C required as prerequisite to CS 3430 & 3460
CS 1100	3			Corequisite for CS 2440
		Semes	ter Five:	[15 Credit Hours]
MAT 2310	3		Х	Offered Fall semesters only
CS 3460	3		Х	
CS 3430	3		Х	
MAT or STT Elective 1	3		Х	A total of 10 hours of electives required to total 65 hours in Major Requirements area on POS; At least 3 sh must be a MAT course if a STT capstone will be selected in last semester.
Integrative Learning Experience Course 2	3			HS or LS or FA or SS Designation

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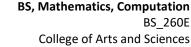
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Course Subject and Title	Credit Hours	Min. Grade Required	Included in Major GPA	Important Notes POS = Program of Study
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		Semester	Siv· [1	L5 Credit Hours]
MAT or STT Elective 2	3	Semester	х	A total of 10 hours of electives required to total 65 hours in Major Requirements area on POS; At least 3 sh must be a MAT course if a STT capstone will be selected in last semester.
Computational Electives 1	3		Χ	Advisor-approved course in the sciences; A total of 9 hours (3 courses) required
Computational Electives 2	3		Х	Advisor-approved course in the sciences; A total of 9 hours (3 courses) required
MAT 4310	3		Х	Offered Spring semester only
Integrative Learning Experience Course 3	3			HS or LS or FA or SS Designation
		Semester S	even:	[14 Credit Hours]
MAT or STT Elective 3	3		Х	A total of 10 hours of electives required to total 65 hours in Major Requirements area on POS; At least 3 sh must be a MAT course if a STT capstone will be selected in last semester.
MAT or STT Elective 4 or Free Elective	2		х	A total of 10 hours of electives required to total 65 hours in Major Requirements area on POS; At least 3 sh must be a MAT course if a STT capstone will be selected in last semester. If 10 hours already met, take Free Elective.
Computational Electives 3	3		Х	Advisor-approved course in the sciences; A total of 9 hours (3 courses) required
Free Elective	3			
Free Elective	3			
		Semester I	Eight:	[15 Credit Hours]
Capstone Course	4		Χ	CAPSTONE; Choose one 4-hour combination from Capstone Requirements area. on POS
Liberal Studies Experience Course 4	3			
Liberal Studies Experience Course 3	3			
Free Elective	3			
Free Elective	2*			*Must take enough hours to reach the minimum 120 required for the degree

General Requirements Summary						
Minimum Gen Ed.			Minimum			
Total Hours Hours Wri	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		Grade	in Major	ļ
	Hours	Required	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 Semester Hours Total				
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
 - o 9 hours in the minor must be from ASU