

Mathematics Major: Mathematical Structures and Applications, BS

NOTICE: This "Eastern in 4" worksheet is a planning document only. Students should consult with their faculty advisor and use the Degree Evaluation to obtain an accurate assessment of their progress toward fulfilling graduation requirements.

Name:	Date:	Revised: 10/1/2021
Eastern in 4 Notes		
A degree has GPA, Residency, Major, LAC, Foreign Language, University Writing, and Upper-level requirements.		
Minimum 120 credits required to graduate. If you have unfilled space, fill with "Elective."		
Either Tier I or Tier II must be completed with a Lab course.		
Major Specific Notes		
Students must earn a C or better in all 300/400 level major courses or a 2.3 GPA in all 300/400 level major courses is required.		
Electives must be chosen from Categories A and B (see course catalog), at least one elective from each category.		
Double majors in MAT/EDU do not take MAT139P/MAT140.		

LAC Requirements

Shaded blue box indicates course may count for major requirement and the LAC. Check Degree Evaluation.

In plan	Course	Title	Requirement	Credit	Rec. Year	Prerequisite
LAC Tier I						
	FYI 100	First-Year Introduction	FYI	3	1st	Must take in first 15 credits
	ENG 100/P	College Writing	T1W	3 or 5	1st	Must take in first 30 credits
	MAT 243	Calculus I	T1M	4	1st	
		Health and Wellness	T1HW	2 or 3	1st	Take in first 60 credits
		Arts in Context	T1A	3	1st	
		Literature and Thought	T1LT	3	2nd	
		Historical Perspectives	T1H	3	1st	
		Natural Sciences	T1NS	3 or 4	1st	
		Social Sciences	T1SS	3	1st	
LAC Tier II						
		Creative Expression	T2CE	3	2nd	T1A or T1LT
		Cultural Perspectives	T2CP	3	2nd	T1A or T1H or T1LT or T1SS
		Natural Sciences	T2NS	3 or 4	2nd	T1NS
	MAT 315	Applied Probability and Statistics	T2IT	4	3rd	MAT 244 or [MAT 243/195 and CSC 202]
		Individuals and Societies	T2IS	3	2nd	T1SS
LAC Tier III						
	MAT 421	Real Analysis II	T3	3	4th	MAT 420, two T2 LACs

Major Requirements

In plan	Course	Title	Requirement	Credit	Rec. Year	Prerequisite
Mathematics Prerequisite						
	MAT 155/P	Precalculus	Elective	4 or 5	1st	Based on Placement
Mathematics Major Requirements						
	MAT 230	Discrete Structures	Major	3	1st	MAT 155 or MAT 155P or MAT 195
	MAT 243	Calculus I with Technology	Major/ T1M	4	1st	MAT 155 or MAT 155P or Placement
	MAT 244	Calculus II with Technology	Major	4	2nd	MAT 243
	MAT 310	Applied Linear Algebra	Major	3	3rd	MAT 230, MAT 243, MAT 244
	MAT 315	Applied Probability and Statistics	Major/ T2IT	4	3rd	MAT 244 or [MAT 243/195 and CSC 202]
	MAT 320	Number Theory	Major	3	2nd	MAT 230
	MAT 340	Calculus III with Technology	Major	4	2nd	MAT 244
	MAT 380	Geometry	Major	3	2nd	MAT 230
	Elective	300+ Math Elective, Category A	Major	3	3rd	See course catalog
	Elective	300+ Math Elective, Category B	Major	3	3rd	See course catalog
	Elective	300+ Math Elective	Major	3	4th	See course catalog
	Elective	300+ Math Elective	Major	3	4th	See course catalog
	MAT 400	Abstract Algebra	Major	3	3rd	MAT 310, MAT 320, MAT 380
	MAT 420	Real Analysis I	Major	4	4th	MAT 230, 244, 315, and (MAT 320 or MAT 380)
	MAT 421	Real Analysis II	Major/ T3	3	4th	MAT 420, two T2 LACs
	CSC 202 or CSC 210	Intro to Programming/Machine Intel Computer Science and Programming I	Major	3	2nd	T1M T1M

Transfer Courses (ECE, AP), Wintersession Courses, Summer Courses			
Subj, Crs#	Title	Requirement	Credits
Total			0

1st year Fall			
Subj, Crs#	Title	Requirement/s	Crs.
Total			0

1st year Spring			
Subj, Crs#	Title	Requirement/s	Crs.
Total			0

2nd year Fall			
Subj, Crs#	Title	Requirement/s	Crs.
Total			0

2nd year Spring			
Subj, Crs#	Title	Requirement/s	Crs.
Total			0

3rd year Fall			
Subj, Crs#	Title	Requirement/s	Crs.
Total			0

3rd year Spring			
Subj, Crs#	Title	Requirement/s	Crs.
Total			0

4th year Fall			
Subj, Crs#	Title	Requirement/s	Crs.
Total			0

4th year Spring			
Subj, Crs#	Title	Requirement/s	Crs.
Total			0
Grand Credit Total (120 minimum)			0
Congratulations, Graduate!			