

# 2025-26 ACADEMIC MAP

## BS - Mathematics -Pre Engineering

TOTAL HRS: 120



*\*Program will be closed by May 11, 2026. All students with more than 60 hrs. towards the degree on May 13, 2024, will receive a teach-out plan. Students with less than 60 hrs. on May 13, 2024, will be assisted in changing their major.*

Academic map is a guide to help students stay on track to degree completion. Consult undergraduate catalog and academic advisor for other requirements.

\* minimum grade required

FALL SEMESTER						SPRING SEMESTER						
	PREFIX	COURSE	CREDIT	AREA	GR*	SEM/GR	PREFIX	COURSE	CREDIT	AREA	GR*	SEM/GR
YEAR 1-Freshman	ENG 101	Composition I	3	Gen Ed			ENG 102	Composition II	3	Gen Ed		
	MAT 251	Calculus I	3	Gen Ed	C		MAT 252	Calculus II	3	Major	C	
	CHE 101/103	Gen Chem I and Lab	4	Gen Ed	C		CHE 102/104	Gen Chem II and Lab	4	Gen Ed	C	
	CIS 205	Microcomputer Apps	3	Gen Ed				General Elective	3	Electives		
		General Elective	1	Electives				Lab Science	3	Electives		
	FYS 100/300 <sup>1</sup>	First Year Seminar	1	Univ Req				Fine Arts	3	Gen Ed		
		15						19				
YEAR 2-Sophomore	ENG 200 Level	Literature	3	Gen Ed			MAT 254	Calculus IV	3	Major	C	
	MAT 253	Calculus III	3	Major	C		MAT 305	Foundations of Math	3	Major	C	
	MAT 300	Statistics	3	Major	C			Humanities & Fine Arts	3	Gen Ed		
	COM 101/202	Communication Studies	3	Gen Ed			MAT 210	Computer Prog Fund	3	Major	C	
		General Elective	4	Electives				General Electives	3	Electives		
		16						15				
YEAR 3-Junior	MAT 442	Linear Algebra	3	Major	C		MAT 322	Differential Equations	3	Major	C	
	PHY 231	General Physics I	3	Spec Dgr	C		PHY 232	General Physics II	3	Spec Dgr	C	
	PHY 235	General Physics Lab I	1	Spec Dgr	C		PHY 236	General Physics Lab II	1	Spec Dgr	C	
		Foreign Language	3	Spec Dgr				Perspectives on Society	3	Gen Ed		
		General Elective	4	Electives				Foreign Language	3	Spec Dgr		
			14					General Elective	1	Electives		
								14				
YEAR 4-Senior	MAT 300+ Level	Math Electives	6	Major	C		MAT 490	Senior Seminar in Math	1	Major	C	
	HIS 100/200	History	3	Gen Ed			MAT 425	Modern Algebra	3	Major	C	
		Perspectives on Society	3	Gen Ed			MAT 300+ Level	Math Elective	3	Major	C	
	PHY 371	Thermodynamics	4	Electives	C			General Electives	8	Electives		
			16						15			

- <sup>1</sup>All incoming students required to enroll in FYS 100 (freshmen), FYS 103 (honors), or FYS 300 (transfers).

- Electrical Engineering - General Electives: CHE 372.

- Chemical/Petroleum Engineering - General Electives: CHE 319, 320, 321, 322, and 432.

- Environmental Engineering - General Electives: Choose from GIS 200, 202, 241, 251, 391; and BIO 100, 101, 123, 301, 309, 416.

- Biomedical Engineering - General Electives: Choose from BIO 100, 101, 300, 319, 328, 349, 350, 442; and CHE 319, 320, 321, 322, 440, 441, 443.

- At least 2.0 GPA in upper-level mathematics courses.