## 2021-22 ACADEMIC MAP

## **BS** - Mathematics -Pre Engineering

**TOTAL HRS: 120** 

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

DELTA STATE UNIVERSITY

\* minimum grade required

FALL SEMESTER						SPRING SEMESTER					
PREFIX	COURSE	CREDIT	AREA	GR*	SEM/GR	PREFIX	COURSE	CREDIT	AREA	GR*	SEM/GR
ENG 101	Composition I	3	Gen Ed			ENG 102	Composition II	3	Gen Ed		
CHE 101/103	Gen Chem I and Lab	4	Gen Ed	С		CHE 102/104	Gen Chem II and Lab	4	Gen Ed	С	
MAT 251	Calculus I	3	Major	С		MAT 252	Calculus II	3	Major	С	
€ CHE 101/103 MAT 251 € CIS 205	Microcomputer Apps	3	Gen Ed			MAT 210	Computer Prog Fund	3	Major	С	
	General Elective	1	Electives				Fine Arts	3	Gen Ed		
FYS 100/300 <sup>1</sup>	First Year Seminar	1	Univ Req					16	_		
		15	_								
MAT 300	Statistics	3	Major	С			Humanities & Fine Arts	3	Gen Ed		
ENG 203/206	Literature	3	Gen Ed			MAT 254	Calculus IV	3	Major	С	
MAT 300 ENG 203/206 MAT 253 COM 101/202	Calculus III	3	Major	С		MAT 305	Foundations of Math	3	Major	С	
COM 101/202 	<b>Communication Studies</b>	3	Gen Ed				General Electives	6	Electives		
	General Elective	3	Electives					15			
		15									
MAT 442	Linear Algebra	3	Major	С		MAT 322	Differential Equations	3	Major	С	1
PHY 231	General Physics I	3	Spec Dgr	С			Perspectives on Society	3	Gen Ed		
PHY 235 	General Physics Lab I	1	Spec Dgr	С		PHY 232	General Physics II	3	Spec Dgr	С	
	Foreign Language	3	Spec Dgr			PHY 236	General Physics Lab II	1	Spec Dgr	С	
	General Elective	4	Electives				Foreign Language	3	Spec Dgr		
		14					General Elective	1	Electives		
								14			
MAT 300+ level	Math Electives	6	Major	С		MAT 490	Senior Seminar in Math	3	Major	С	
HIS 100/200 level	History	3	Gen Ed			MAT 425	Modern Algebra	3	Major	С	
HIS 100/200 level	Perspectives on Society	3	Gen Ed			MAT 300+ level	Math Elective	3	Major	С	
PHY 371	Thermodynamics	4	Electives	С			General Electives	6	Electives		
		16						15			

- ¹All 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 2.5 GPA in upper-level mathematics courses.
- At least 2.5 GPA in upper-level mathematics courses completed at DSU.