

# 2021-22 ACADEMIC MAP

## BS - Mathematics

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.

\* 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		
		Lab Science	4	Gen Ed		MAT 252	Calculus II	3	Major		
	MAT 251	Calculus I	3	Major			Perspectives on Society	3	Gen Ed		
	CIS 205	Microcomputer Apps	3	Gen Ed			Lab Science	4	Gen Ed		
		General Elective	1	Electives			Fine Arts	3	Gen Ed		
FYS 100/300 <sup>1</sup>	First Year Seminar	1	Univ Req					16			
		15									
YEAR 2-Sophomore	ENG 203/206	Literature	3	Gen Ed			Humanities & Fine Arts	3	Gen Ed		
	MAT 210	Computer Prog Fund	3	Major		MAT 254	Calculus IV	3	Major		
	MAT 253	Calculus III	3	Major		MAT 305	Foundations of Math	3	Major		
	HIS 100/200 level	History	3	Gen Ed			General Elective	3	Electives		
	COM 101/202	Communication Studies	3	Gen Ed			Perspectives on Society	3	Gen Ed		
		15					15				
YEAR 3-Sophomore	MAT 442	Linear Algebra	3	Major		MAT 300+ level	Math Elective	3	Major		
	PHY 231	General Physics I	3	Spec Dgr		PHY 232	General Physics II	3	Spec Dgr		
	PHY 235	General Physics I Lab	1	Spec Dgr		PHY 236	General Physics II Lab	1	Spec Dgr		
		Foreign Language	3	Spec Dgr			Foreign Language	3	Spec Dgr		
		General Elective	4	Electives			General Elective	5	Electives		
		14					15				
YEAR 4-Senior	MAT 300+ level	Math Electives	6	Major		MAT 490	Senior Seminar in Math	3	Major		
		General Elective	3	Electives		MAT 425	Modern Algebra	3	Major		
		General Elective	3	Electives		MAT 300+ level	Math Elective	3	Major		
		General Elective	3	Electives			General Electives	6	Electives		
			15					15			

- <sup>1</sup>All incoming students required to enroll in FYS 100 (freshmen) or FYS 300 (transfers).
- MAT 104 College Algebra requires a math ACT sub-score of 20 or higher. 19 or below will place a student in co-requisite remediation.
- MAT 105 Trigonometry: Pre-requisite MAT 104 College Algebra **OR** ACT Math sub-score of 23.
- MAT 251 Calculus I: Pre-requisite MAT 104 College Algebra and MAT 105 Trigonometry **OR** ACT Math sub-score of 24 or higher.
- PHY 231/235 General Physics I/Lab and PHY 232/236 General Physics II/lab offered every other year.
- At least 2.5 GPA in upper-level mathematics courses.
- At least 2.5 GPA in upper-level mathematics courses completed at DSU.