

2018-19 Mathematics B.S. Checklist

Name _____
Student ID _____
Date _____

GENERAL EDUCATION

I. Foundational Intellectual Skills (12-13 hours)

- ___ FYS110 First Year Seminar
- ___ ENG112 Writing, Research, Genre & Context
- ___ COM101 Public Speaking
- ___ Mathematics

II. Knowledge Acquisition (19-20 hours)

- ___ Science 1XX with lab
- ___ HUM210 Humanities Survey Course
- ___ PHL130 Human Nature & Person
- ___ Foreign Language

One course from each group A and B:

Group A

- ___ ECN200 Introductory Economics
- ___ HIS102 History of the Modern World
- ___ POL102 Introduction to American Politics

Group B

- ___ PSY101 General Psychology
- ___ PSY220 Human Growth and Development
- ___ GST200 Introduction to Gender Studies
- ___ SOC101 Introduction to Sociology
- ___ SOC175 Introduction to Anthropology

III. Faith, Ethics, and Foundation (6 hours)

- ___ THL105 Introduction to Theology
- ___ Second Approved THL

IV. Greater Depth Cluster

- a. Completion of a minor or second major outside school (or department if College of Arts & Sciences)
- b. Completion of an interdisciplinary minor or concentration outside the first major. See catalog for approved programs.
- c. Focus on a specific theme (cluster) outside the major. See catalog for cluster course areas

Total Earned General Education Hours _____

Mathematics MAJOR REQUIREMENTS B.S. (60 hours, at least 42 in MAT)

Core Courses

___ MAT230 Calculus I	4
___ MAT231 Calculus II	4
___ MAT250 Logic and Sets	3
___ MAT305 Calculus	4
___ MAT310 Linear Algebra	3
___ MAT409 Topics in Discrete Mathematics	3
___ MAT440 Abstract Algebra I	3
___ MAT450 Real Analysis	3
___ MAT490 Seminar	3
___ Math Elective 300 Level or Above	3
___ Math Elective 300 Level or Above	3
___ Math Elective 300 Level or Above	3
___ Math Elective 300 Level or Above	3
___ CST171 Procedural Programming	3
___ CST270 Object Oriented Programming	3
___ Science/MAT Elective	3/4
___ Science/MAT Elective	4
___ Science/MAT Elective	4

Total Earned Major Hours _____

ELECTIVE/MINOR

Total Earned Minor/Elective Hours _____

TOTAL OVERALL EARNED HOURS _____

MARIAN UNIVERSITY

Indianapolis®

2018-19 Major B.S. in Mathematics Sample Four-Year Plan

Freshman Year					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours
General Education	FYS 110	3	MAJOR	MAT 231	4
MAJOR	MAT 230	4	MAJOR	CST 171	3
MAJOR	MAT 211	1	General Education/MAJOR	PHY 201	4
General Education	COM	3	General Education	PSY/SOC/GST	3
General Education	Foreign Language	4	General Education	ENG 112	3
Semester Hours	15		Semester Hours	17	
Cumulative Hours	15		Cumulative Hours	32	
Sophomore Year					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours
MAJOR	MAT 305	4	MAJOR	MAT 250	3
MAJOR	CST 270	3	MAJOR	elective	3
MAJOR	2 nd science	4	General Education	ECN/HIS/POL	3
General Education	PHL 130	3	General Education	THL 105	3
Minor/Elective/GDC		3	Minor/Elective/GDC		3
Semester Hours	17		Semester Hours	15	
Cumulative Hours	49		Cumulative Hours	64	
Junior Year					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours
MAJOR	MAT 310	3	MAJOR	450	3
MAJOR	MAT 409	3	MAJOR	MAT elective	3
General Education	HUM 210	3	General Education	Second THL	3
Minor/Elective/GDC		3	Minor/Elective/GDC		3
Minor/Elective/GDC		3	Minor/Elective/GDC		3
			Minor/Elective/GDC		3
Semester Hours	15		Semester Hours	18	
Cumulative Hours	79		Cumulative Hours	97	
Senior Year					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours
MAJOR	MAT 490	3	MAJOR	MAT elective	3
MAJOR	MAT 440	3	MAJOR	elective	3
MAJOR	MAT elective	3	Minor/Elective/GDC		3
Minor/Elective/GDC		3	Minor/Elective/GDC		3
Minor/Elective/GDC		4	Minor/Elective/GDC		3
Semester Hours	16		Semester Hours	15	
Cumulative Hours	113		Cumulative Hours	128	

*A minimum 2.0 cumulative GPA and a minimum 2.0 major GPA are required for graduation, so monitor your GPA closely. To meet degree requirements, some disciplines require higher grades in each course or a higher cumulative GPA

This four-year plan is only a sample and will vary by student and course availability.