

2020-21 Mathematics B.A. Checklist

Name _____
 Student ID _____
 Date _____

GENERAL EDUCATION

I. Foundational Intellectual Skills (12-13 hours)

- ___ FYS110 First Year Seminar
- ___ ENG112 Writing and Community
- ___ COM101 Public Speaking
- ___ Mathematics (MAT 230)

II. Knowledge Acquisition (19-20 hours)

- ___ Science with lab
- ___ HUM210 Meaning Through Culture
- ___ PHL130 Human Nature & Person
- ___ Foreign Language

One course from each group A and B:

Group A

- ___ BUS109 Business Plan Competition
- ___ ECN200 Introductory Economics
- ___ HIS102 History of the Modern World
- ___ POL102 Introduction to American Politics

Group B

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

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

- ___ THL105 Introduction to Theology
- ___ Second Approved THL (see catalogue)

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.A. (45 hours, 33 in MAT)

Core Courses

___ MAT 230 Calculus I	4
___ Mat 231 Calculus II	4
___ MAT250 Problem-Solving and Intro to Proofs	3
___ MAT 305 Calculus III	4
___ MAT 310 Linear Algebra	3
___ MAT 490 Seminar	3
___ CST 150/171 Intro or Procedural Programming	4
___ MAT Elective above MAT 230	3
___ MAT Elective above MAT 230	3
___ Approved Science Elective (See catalogue)	4
___ Approved Science Elective (See catalogue)	4

One course from each group A and B:

Group A

___ MAT 315 Differential Equations	3
___ MAT 322 Statistical Inference & Data Analysis I	3

Group B

___ MAT 409 Topics in Discrete Mathematics	3
___ MAT 440 Abstract Algebra I	3

Total Earned Major Hours _____

ELECTIVE/MINOR

Total Earned Minor/Elective Hours _____

TOTAL OVERALL EARNED HOURS _____

MARIAN UNIVERSITY

Indianapolis®

2020-21 Major B.A. 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 150/171	4
Minor/Elective/GDC		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	18	
Cumulative Hours	15		Cumulative Hours	33	
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	MAT 322 or 315 in spring	3	MAJOR	elective	3
MAJOR	2 nd science	4	General Education	BUS/ECN/HIS/POL	3
General Education	HUM 210	3	General Education	PHL 130	3
Minor/Elective/GDC		3	Minor/Elective/GDC		3
Semester Hours	17		Semester Hours	15	
Cumulative Hours	50		Cumulative Hours	65	
Junior Year					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours
MAJOR	MAT 310	3	MAJOR	Elective	3
MAJOR	MAT 409 or 440 Fall even	3	General Education	Second THL	3
General Education	THL 105	3	Minor/Elective/GDC		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	80		Cumulative Hours	98	
Senior Year					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours
MAJOR	MAT 490	3	Minor/Elective/GDC		3
Minor/Elective/GDC		3	Minor/Elective/GDC		3
Minor/Elective/GDC		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	15	
Cumulative Hours	113		Cumulative Hours	128	

Note: 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. Revised May 2019.