

2020-21 Mathematics B.S. Checklist

Name _____
 Student ID _____
 Date _____

PLEASE SEE THE CATALOGUE FOR B.S. WITH CONCENTRATION

<p>GENERAL EDUCATION</p> <p>I. Foundational Intellectual Skills (12-13 hours) ___ FYS110 First Year Seminar ___ ENG112 Writing and Community ___ COM101 Public Speaking ___ Mathematics (MAT 230)</p> <p>II. Knowledge Acquisition (19-20 hours) ___ Science with lab ___ HUM210 Meaning Through Culture ___ PHL130 Human Nature & Person ___ Foreign Language</p> <p>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</p> <p>III. Faith, Ethics, and Foundation (6 hours) ___ THL105 Introduction to Theology ___ Second Approved THL (see catalogue)</p> <p>IV. Greater Depth Cluster</p> <ol style="list-style-type: none"> Completion of a minor or second major outside school (or department if College of Arts & Sciences) Completion of an interdisciplinary minor or concentration outside the first major. See catalog for approved programs. Focus on a specific theme (cluster) outside the major. See catalog for cluster course areas <p>Total Earned General Education Hours _____</p>	<p>Mathematics MAJOR REQUIREMENTS B.S. (60 hours, at least 42 in MAT)</p> <p>Core Courses</p> <table style="width: 100%;"> <tr><td>___ MAT230 Calculus I</td><td style="text-align: right;">4</td></tr> <tr><td>___ MAT231 Calculus II</td><td style="text-align: right;">4</td></tr> <tr><td>___ MAT250 Problem-Solving and Intro to Proofs</td><td style="text-align: right;">3</td></tr> <tr><td>___ MAT305 Calculus III</td><td style="text-align: right;">4</td></tr> <tr><td>___ MAT310 Linear Algebra</td><td style="text-align: right;">3</td></tr> <tr><td>___ MAT409 Topics in Discrete Mathematics</td><td style="text-align: right;">3</td></tr> <tr><td>___ MAT440 Abstract Algebra I</td><td style="text-align: right;">3</td></tr> <tr><td>___ MAT450 Real Analysis</td><td style="text-align: right;">3</td></tr> <tr><td>___ MAT490 Seminar</td><td style="text-align: right;">3</td></tr> <tr><td>___ MAT Elective 300 Level or Above</td><td style="text-align: right;">3</td></tr> <tr><td>___ MAT Elective 300 Level or Above</td><td style="text-align: right;">3</td></tr> <tr><td>___ MAT Elective 300 Level or Above</td><td style="text-align: right;">3</td></tr> <tr><td>___ MAT Elective 300 Level or Above</td><td style="text-align: right;">3</td></tr> <tr><td>___ CST 150/171 Intro or Procedural Programming</td><td style="text-align: right;">4</td></tr> <tr><td>___ CST 200 Data Structures and Algorithms</td><td style="text-align: right;">4</td></tr> <tr><td>___ Approved MAT/CST/SCI/FIN Elective (see catalogue)</td><td style="text-align: right;">3</td></tr> <tr><td>___ Approved MAT/CST/SCI/FIN Elective (see catalogue)</td><td style="text-align: right;">3</td></tr> <tr><td>___ Approved MAT/CST/SCI/FIN Elective (see catalogue)</td><td style="text-align: right;">4</td></tr> </table> <p style="text-align: right;">Total Earned Major Hours _____</p> <p>ELECTIVE/MINOR</p> <p>_____ _____ _____ _____ _____</p> <p style="text-align: right;">Total Earned Minor/Elective Hours _____</p> <p style="text-align: right;">TOTAL OVERALL EARNED HOURS _____</p>	___ MAT230 Calculus I	4	___ MAT231 Calculus II	4	___ MAT250 Problem-Solving and Intro to Proofs	3	___ MAT305 Calculus III	4	___ MAT310 Linear Algebra	3	___ MAT409 Topics in Discrete Mathematics	3	___ MAT440 Abstract Algebra I	3	___ MAT450 Real Analysis	3	___ MAT490 Seminar	3	___ MAT Elective 300 Level or Above	3	___ MAT Elective 300 Level or Above	3	___ MAT Elective 300 Level or Above	3	___ MAT Elective 300 Level or Above	3	___ CST 150/171 Intro or Procedural Programming	4	___ CST 200 Data Structures and Algorithms	4	___ Approved MAT/CST/SCI/FIN Elective (see catalogue)	3	___ Approved MAT/CST/SCI/FIN Elective (see catalogue)	3	___ Approved MAT/CST/SCI/FIN Elective (see catalogue)	4
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MARIAN UNIVERSITY

Indianapolis®

2020-21 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 150/171	4
MAJOR	MAT 211	1	General Education/MAJOR	PHY 201	4
General Education	COM101	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	CST 200	4	MAJOR	elective	3
MAJOR	2 nd science	4	General Education	BUS/ECN/HIS/POL	3
General Education	PHL 130	3	General Education	THL 105	3
Minor/Elective/GDC		3	Minor/Elective/GDC		3
Semester Hours	18		Semester Hours	15	
Cumulative Hours	51		Cumulative Hours	66	
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		1
Semester Hours	15		Semester Hours	16	
Cumulative Hours	81		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		3	Minor/Elective/GDC		4
Semester Hours	15		Semester Hours	16	
Cumulative Hours	112		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.