Mercy University

Academic Program Sequence Map

Program Degree Type and Name: B.S. in Mathematics **Catalog Year: 2026-2027**

Program Level: Undergraduate **Academic Term Type: Sem**

**** Denote core course with an asterisk and (cc) next to the course number***

Year and Term:	Credits Per Classification						
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
MATH116: College Algebra (Quantitative Reasoning)	3	x			C or Higher		GC
MATH/CISC120	3		x				
ENGL111	3	x					
ENGL110/LANG115/116/elective	3	x					
Seminar I: FYS	3	x					
Term Credit Total:	15	12	3				

Year and Term:	Credits Per Classification						
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
MATH201: Precalculus	3		x			MATH116 or B in hs algebra	GC
MATH131: Foundations of Comp. 1	3		x			CISC/MATH120 or dept approval	
ENGL112	3	x					
Seminar II: Transformative Ideas	3	x					
LANG 115/116/elective	3	x					
Term Credit Total:	15	9	6				

Year and Term:	Credits Per Classification						
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
MATH231: Foundations of Comp. 2	3		x		C or Higher	MATH/CISC131 or dept approval	
**MATH260: Calculus 1	4		x		C or Higher	MATH201	GC
GE (Scientific Reasoning)	3	x					
LANG 116/Elective	3	x					
GE (Creative Expression)	3	x					
Term Credit Total:	16	9	7				

Year and Term:	Credits Per Classification						
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
**MATH261: Calculus 2	4		x		C or Higher	MATH260	GC
MATH244: Discrete Structures	3		x			MATH201	
Gen Ed (Humanities)	3	x					
Seminar III: Big Problems	3	x					
Open Elective	3			x			
Term Credit Total:	16	6	7	3			

Year and Term:	Credits Per Classification						
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
MATH360: Calculus 3	4		x			MATH261	
MATH350: Probability Theory & App	3		x			MATH261	
MATH315: Linear Algebra	3		x			MATH260	
Open Elective	3			x			
GE (Self & Society)	3	x					
Term credit total:	16	3	10	3			

Year and Term:	Credits Per Classification						
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
MATH351: Statistics: Theory & App	3		x			MATH261, MATH350 or dept. Approval	
MATH307: Number Theory	3		x			MATH261	
Gen Ed (Ethical Reasoning)	3	x					
Open Elective	3			x			
Open Elective	3			x			
Term Credit Total:	15	3	6	6			

Year and Term:	Credits Per Classification						
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
Open Elective	3			x			
Open Elective	3			x			
MATH 395: Special Topics	3		x				WBE
Open Elective	3			x			
Open Elective	3			x			
Term Credit Total:	15		3	12			

Year and Term:	Credits Per Classification						
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
Open Elective	3			x		MATH315, MATH350 or MATH360	
MATH365: Algebraic Structures	3		x			Math/CIS 315	
*MATH417: Mathematical Modeling (cc)	3		x			CISC/MATH 213, MATH 380/360	
Open Elective	3			x			
							WBE
Term Credit Total:	12		6	6			

Program Totals	Credits: 120	General Education: 42	Major & Major Elective: 48	Open Elective: 30

Legend: CR: Credits GE: General Education Maj: Major / Major Elective OE: Open Elective SM: Success Marker Co/Prerequisite(s): List of co/ prerequites for noted course GC: Gateway Courses CA: Career Activity ELC: Experiential Learning Course WBE: Work-Based Experience

Academic Program Sequence Map

Office of the Provost April 2026