

# Department of Mathematics and Information Technology

## MATHEMATICS Degree Requirements - 2016-17

### MATHEMATICS DEGREE REQUIREMENTS

1	MATH 170	Calculus I	4 credits
2	MATH 171	Calculus II	4 credits
3	MATH 233	Calculus III	4 credits
4	MATH 150	Linear Algebra	4 credits
5	MATH 240	Differential Equations	3 credits
6	MATH 245	Geometry	3 credits
7	MATH 265	Transitions to Advanced Mathematics	3 credits
8	MATH 280	Modern Algebra I	3 credits
9	MATH 281	Modern Algebra II	3 credits
10	MATH 291	Statistical Analysis	3 credits
11	MATH 370	Advanced Calculus	3 credits
12	Programming (one course from the list below)		
	MATH 146	Programming I	4 credits
	MIS 190	Algorithms	3 credits
13	MATH 400	Topics in Mathematics	3 credits

### MINOR REQUIREMENTS

1	MATH 170	Calculus I	4 credits
2	MATH 171	Calculus II	4 credits
3	MATH 233	Calculus III	4 credits
4	MATH 150	Linear Algebra	4 credits
5	MATH 265	Transitions to Advanced Mathematics	3 credits
6	Elective		
7	Elective (pick 2 electives from list below)		
	MATH 146	Programming I	4 credits
	MIS 190	Algorithms	3 credits
	MATH 201	Technical Writing with $\LaTeX$	3 credits
	MATH 240	Differential Equations	3 credits
	MATH 245	Geometry	3 credits
	MATH 280	Modern Algebra I	3 credits
	MATH 281	Modern Algebra II	3 credits
	MATH 291	Statistical Analysis	3 credits
	MATH 370	Advanced Calculus	3 credits
	MATH 400	Topics in Mathematics	3 credits
	PHYS 201	General Physics I w/ Lab	4 credits



### For More Information

Please contact Dr. Don Platte at [dplatte@mercyhurst.edu](mailto:dplatte@mercyhurst.edu) with any questions. Be sure to visit our department website available at: <http://math.mercyhurst.edu/>

# Department of Mathematics and Information Technology

## MATHEMATICS Degree Students Beginning *Fall 2016*

### STARTING WITH CALCULUS I

	Fall Semester	Spring Semester
Freshmen (2016 / 2017)	Calculus I	Calculus II
Sophomore (2017 / 2018)	Differential Equations	Calculus III Linear Algebra
Junior (2018 / 2019)	Transitions	Advanced Calculus Topics in Math
Senior (2019 / 2020)	Modern Algebra I	Modern Algebra II Geometry

### STARTING WITH CALCULUS II

	Fall Semester	Spring Semester
Freshmen (2016 / 2017)	Calculus II	Calculus III
Sophomore (2017 / 2018)	Differential Equations	Linear Algebra
Junior (2018 / 2019)	Transitions	Advanced Calculus Topics in Math
Senior (2019 / 2020)	Modern Algebra I	Modern Algebra II Geometry

### STARTING WITH MATH FOR NAT SCI

	Fall Semester	Spring Semester
Freshmen (2016 / 2017)	Math for Natural Sci	Calculus I
Sophomore (2017 / 2018)	Calculus II	Calculus III Linear Algebra
Junior (2018 / 2019)	Transitions	Advanced Calculus Topics in Math
Senior (2019 / 2020)	Modern Algebra I Differential Equations	Modern Algebra II Geometry

### COURSE SCHEDULE:

Course	Fall 2016	Spr 2017	Fall 2017	Spr 2018	Fall 2018	Spr 2019	Fall 2019	Spr 2020
Math for Natural Sciences	X	X	X	X	X	X	X	X
Calculus I	X	X	X	X	X	X	X	X
Calculus II	X	X	X	X	X	X	X	X
Calculus III		X		X		X		X
Linear Algebra				X				X
Differential Equations			X				X	
Transitions to Adv Math	X				X			
Geometry				X				X
Modern Algebra I			X				X	
Modern Algebra II				X				X
Advanced Calculus		X				X		
Statistical Analysis				X				X
Technical Writing - L <sup>A</sup> T <sub>E</sub> X		X				X		
Topics in Mathematics		X				X		