

DEPARTMENT OF MATHEMATICS AND STATISTICS

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Catalog AY18-19

MAJOR MAP

BACHELOR OF SCIENCE IN MATHEMATICS

Purpose Statement: The mission of the Mathematics Degree Program of Park University is to challenge our students by setting high academic standards, providing excellence in teaching to enable them to meet those standards, and preparing them for careers in science, business, and teaching.

	Credit Hours
University Graduation Requirements – BS	
LE 100, First-Year Seminar (<i>first-time freshman only; waived for transfer students</i>)	3
Writing Competency Test (<i>see www.park.edu/asc for more information</i>)	P/F
EN 306, Professional Writing in the Disciplines, or departmental equivalent (<i>prerequisites: WCT</i>)	3
University Liberal Education Requirements	
EN 105, First-Year Writing Seminar I	3
EN 106, First-Year Writing Seminar II (<i>Prerequisites: EN 105 or equivalent</i>)	3
CA 103, Oral Communication; CA 105, Introduction to Human Communication; or TH 105, Oral Communication	3
CS 140, Introduction to Computers; or higher; or departmental equivalent	3
MA 120, Basic Concepts of Statistics; MA 135, College Algebra; or higher	3
Lab Science	4
LE Natural and Physical Science Elective (<i>except computer science</i>)	3
LE Social Science Elective	3
LE Social Science Elective	3
LE Arts & Humanities Elective	3
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LE 300, Seminar in Integrative and Interdisciplinary Learning	3
Citizenship Requirement (PO 200)	3
Ethics Requirement (PH 102, PH 221, or PH 308)	3
Requirements for the Major	
Core Curriculum:	31
MA 221, Calculus and Analytic Geometry for Majors I (<i>Prerequisite: MA 160 or equivalent</i>)	5
MA 222, Calculus and Analytic Geometry for Majors II (<i>Prerequisite: MA 221 or equivalent</i>)	5
MA 223, Calculus and Analytic Geometry for Majors III (<i>Prerequisite: MA 222 or equivalent</i>)	3
MA 301, Mathematical Thought (<i>Prerequisite: MA 211 or MA 221</i>)	3
MA 302, Ordinary Differential Equations (3 cr.) (<i>Prerequisite: MA 222</i>)	3
MA 311, Linear Algebra (<i>Prerequisite: MA 211 or MA 221</i>)	3
MA 312, Abstract Algebraic Structures (<i>Prerequisite: MA 222 and MA 301</i>)	3
MA 401, Analysis (<i>Prerequisite: MA 222 and MA 301</i>)	3
MA 450, Seminar in Mathematics (<i>Prerequisite: MA 301 and permission of the instructor</i>)	3
At least four courses of the following:	12
MA 305, Probability (3 cr.) (<i>Prerequisite: MA 222 or equivalent</i>)	
MA 350, History of Mathematics (3 cr.) (<i>Prerequisites: MA 135 and MA 141 or MA 150</i>)	3
MA 360, Modern Geometries (3 cr.) (<i>Prerequisite: MA 222 and MA 301, or permission of instructor</i>)	3
MA 370, Number Theory (3 cr.) (<i>Prerequisite: MA 222 and MA 301, or permission of instructor</i>)	3

This guide is not a substitute for academic advisement.

MA 380, Mathematical Statistics (3 cr.) (Prerequisite: MA 305)	3
MA 402, Topology (3 cr.) (Prerequisite: MA 401 or permission of instructor)	3
MA 406, Special Topics (3 cr.) (Prerequisite: Permission of instructor)	
TOTALS	

Recommended Schedule

First Year – Fall	First Year – Spring
MA 221	MA 222
Second Year – Fall	Second Year – Spring
MA 223 MA 301	MA 311 MA 302 (Can be taken in Spring of the 3 rd year)
Third Year – Fall	Third Year – Spring
MA 312 (can be taken in Fall of the 4 th year) Math Elective (MA 305 or above)	MA 401 (Can be taken in Spring of the 4 th year concurrent with MA 450) Math Elective (MA 305 or above)
Fourth Year – Fall	Fourth Year – Spring
Math Elective (MA 305 or above) Math Elective (MA 305 or above)	