

# Academic Planning Guide - Mathematics

North Park University

effective with 2014-2015 Catalog

## Major Requirements

**Required Semester Hours:** BA: 40 semester hours

BS: 44 semester hours

**Prerequisites and Supporting Courses:** 4 semester hours

CSIS 1210: Introduction to Computer Science (4)

**Required Core Courses:** BA: 36 semester hours

BS: 40 semester hours

MATH 1410: Discrete Mathematics I (4) - meets Analytical and Quantitative Reasoning requirement

MATH 1510: Calculus I (4)

MATH 1520: Calculus II (4)

MATH 3100: Linear Algebra (4)

**BA Only:**

MATH 1490: Introductory Statistics (4)

MATH 3010: Introduction to Geometry (2)

MATH 3110: Modern Abstract Algebra (4)

MATH 3210: History of Mathematics (2)

**BS Only:**

MATH 2030: Differential Equations (4)

MATH 3050: Vector Calculus (4)

MATH 3150: Statistical Theory (4)

MATH 4010: Fourth-Year Seminar (4)

**Electives: 8 semester hours**

MATH Elective (2000 or higher) (4)

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**Notes:**

- A comprehensive examination is required for graduation to take and pass a department comprehensive essay exam.
- An oral presentation of a paper outside of the classroom is required for the BS degree.
- For students in secondary education: The B.A. in Math requires 36 sh in MATH, namely MATH 1410, 1490, 1510, 1520, 3010, 3110, 3210, 12 sh in Mathematics numbered 2000 or higher, as well as CSIS 1210 as a supporting course.
- For Departmental Honors in Mathematics, 4 sh of MATH 4000 are required in addition to the degree requirements. Application for admission should be made the second semester of the third year. For general Departmental Honors requirements and MATH 4000 course descriptions, see appropriate sections of the catalog.

The Academic Planning Guide is designed as a guide for students planning their course selections. The information on this page provides only a suggested schedule. Actual course selections should be made with the advice and consent of a faculty advisor. While accurately portraying the information contained in the college catalog, this form is not considered a legal substitute for that document. Students should become familiar with the catalog in effect at the time in which they entered the institution.

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## Core Curriculum

Starting with the framework of North Park's identity as a Christian, liberal arts institution, our Core Curriculum is intentionally multi-disciplinary and multi-year. It is set up as a progress through three areas: Foundation Courses, Explorations Courses, and Capstone Courses.

<http://www.northpark.edu/Academics/Undergraduate-Studies/Core-Curriculum>

### Foundations

Preparing for more in-depth work in both the Core Curriculum and your major

Cornerstone Seminar (4sh)

Biblical Studies (4sh)

Health and Well-Being (2sh)

Analytical & Quantitative Reasoning (4sh) <i>met by MATH 1410</i>

Global Histories (4sh)

Modern Languages (8sh)

### Explorations

Knowledge in specific disciplines, with strong emphasis on how you can use them in the context of your own life

Art and Aesthetics (2sh)

Christian Life & Thought (4sh)

Life Science (2sh/lab)

Physical Science (2sh/lab)

Culture and Society (4sh)

Ethical Reasoning (2sh)

### Intermediate Level Writing

Two courses in the context of your major that specifically address writing clearly and doing effective research

Writing Intensive Course (4sh)

Research Writing Course (4sh)

### Keystone

Interdisciplinary integration of skills and knowledge applied to contemporary social issues

Keystone Seminar (4sh)

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