MATHEMATICS

& LA ROCHE UNIVERSITY

THE MAJOR IN MATHEMATICS introduces students to a field whose origins date from the dawn of history and whose ever-increasing pervasiveness and importance in science, engineering, business and finance renders it a veritable master-key to our understanding of the world about us.

The degree in mathematics opens many doors to students upon graduation, to a job in business, industry or government, to certification as a teacher, to graduate study in mathematics, statistics and computer science, or to a professional school such as in business or law. The major also serves as a gateway not only to a job and

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career, but also to a world where logic and imagination combine to create timeless beauty and truth.

La Roche University offers two degree paths: a Bachelor of Arts in Mathematics and a Bachelor of Science in Mathematics. The Bachelor of Arts in Mathematics allows for more flexibility with credits, giving you the opportunity to double major. The Bachelor of Science in Mathematics major requires seven computer science credits and an additional four credits in physics.

CURRICULUM

MAJOR COMPONENT REQUIREMENTS

54 Credits

Analytic Geometry & Calculus I Analytic Geometry & Calculus II Analytic Geometry & Calculus III Ordinary Differential Equations Discrete Mathematics I Discrete Mathematics II Linear Algebra Complex Variables Probability & Statistics I Probability & Statistics II
History of Mathematics
Modern Abstract Algebra
Geometry
Real Analysis
Junior-Senior Seminar

Physics Component

General Physics I Lab General Physics II General Physics II General Physics II Lab Additional Major Requirements for Bachelor of Science in Mathematics

General Physics III
General Physics III Lab

Computer Science Component

Introduction to Computer Science Programming I

Programming I Lab

Continued

LA ROCHE UNIVERSITY | 9000 Babcock Blvd. | Pittsburgh, PA 15237 | Iaroche.edu

Freshman Admissions

844-838-4578 | 412-536-1272 admissions@laroche.edu **Transfer Admissions**

412-536-1260 transferadmissions@laroche.edu

CURRICULUM (continued)

ACADEMIC CORE CURRICULUM 37 credits

FOUNDATIONS OF KNOWLEDGE15 credits

Academic Reading and Writing Academic Writing and Research Digital Literacy College Algebra

Oral Communication

LA ROCHE EXPERIENCE 4 credits

LRX: Foundations
Investigating Social Problems

BREADTH OF KNOWLEDGE

12 credits

Natural and Physical World*

Human Expression

Values and Ethics

Social Sciences

Global Perspectives

DEPTH OF KNOWLEDGE

3 credits

Interdisciplinary Inquiry

CORE ELECTIVES

3 credits

Any Breadth of Knowledge Area Course **or** Interdisciplinary Inquiry

*Fulfilled in major requirements

GENERAL ELECTIVES18 credits

