COMPUTER SCIENCE

& LA ROCHE UNIVERSITY

LA ROCHE UNIVERSITY'S COMPUTER SCIENCE

MAJOR provides hands on experience in programming fundamentals, computational thinking, and operating systems. With the option to focus on the application of these concepts in fields such as Information Technology, Cybersecurity, and Database. LRU prepares you for success in the computer industry. The program also offers a solid foundation for you to enter related Information Technology fields or graduate school.



La Roche additionally offers Information Technology

(IT) and management information systems. Computer science focuses on using mathematics to improve programs to run more effectively in development and design. IT, a subset of management information systems, is concentrated on installing and maintaining computer systems, operating networks and databases. Managing information systems involves supporting a company's whole infrastructure.

CURRICULUM

COMPUTER SCIENCE COMPONENT

37 credits

Introduction to Computer Science

Programming I

Programming I Lab

Programming II

Programming II Lab

Algorithm Analysis

Systems Programming with Lab

Computer Organization & Design with Lab

Database Systems Theory **or**Database Management Systems

Operating Systems

Computer Security

CS Capstone Experience I

CS Capstone Experience II

COMPUTER SCIENCE ELECTIVES

Select any 3 courses – 9 credits

Computer Forensics Investigation

Any 4000-level CS course

Intro to Intellectual Property

Web Page Usability

& Programming

Human-Computer Interaction

Internship

MATHEMATICS COMPONENT

14 credits

Analytical Geometry &

Calculus I

Analytical Geometry & Calculus II

Probability & Statistics

Discrete Mathematics I

or Discrete Structures

PHYSICS COMPONENT

8 credits

Physics I

Continued

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CURRICULUM (continued)

Physics I Lab

Physics II

Physics II Lab

ACADEMIC CORE CURRICULUM

37 credits

FOUNDATIONS OF KNOWLEDGE

15 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 ELECTIVES

18 credits





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