

COMPUTER ENGINEERING

UNIVERSITY OF PITTSBURGH

 LA ROCHE UNIVERSITY

COMPUTER ENGINEERS DESIGN, PRODUCE AND IMPROVE computer hardware and digital systems. These engineers drive technology innovation, advance products, and meet the challenges of a rapid and changing field. La Roche University prepares you for those demands. Our dual degree program with the University of Pittsburgh offers the skills that you need to be a problem solver and innovative thinker.



CURRICULUM

ENGINEERING FOUNDATION COURSES

46 credits

SCIENCE AND MATHEMATICS COMPONENT

28 credits

Analytical Geometry & Calculus I
Analytical Geometry & Calculus II
General Chemistry I with Lab
General Chemistry II with Lab
Physics I with Lab
Physics II with Lab
Programming I with Lab

HUMANITIES AND SOCIAL SCIENCE COMPONENT

18 credits

Select courses from three different areas, not including science. One must be writing-intensive. Two non-introductory courses from the same

department or theme. Suggestion: Modern language in lieu of Community/Global courses.

COMPUTER ENGINEERING MAJOR REQUIREMENTS

24 credits

MATHEMATICS

6 credits

Ordinary & Differential Equations
Linear Algebra

COMPUTER SCIENCE

4 credits

Programming II with Lab

COMMUNICATIONS

Choose one course – 3 credits

Reading and Writing
Oral Communications
Business Communications
Writing for Public Relations
Technical Writing

TECHNICAL ELECTIVES

6 credits

Complete two courses in advanced life science, computer science or math. Courses must be pre-approved.

OPEN ELECTIVES

6 credits

Any two courses that are not of similar nature to or lower level than a required or previously taken course can be used to fulfill this requirement. Three credits of Physical Education also may be used.

PRE-APPROVED TECHNICAL/ PROFESSIONAL ELECTIVES*

Must be courses not already designated as required in your engineering track.

Continued

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

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

Transfer Admissions
412-536-1260
transferadmissions@laroche.edu

CURRICULUM *(continued)*

ADVANCED LIFE SCIENCE

Microbiology with Lab

Genetics

General Ecology

Cell Biology

Biochemistry

Immunology

Molecular Biology

COMMUNICATIONS

College Writing II

Public Speaking

Business Communications

Writing for Public Relations

Technical Writing

COMPUTER SCIENCE

Programming II with Lab

Algorithm Analysis

Systems Programming with Lab

Database Theory

Computer Organization

Operating Systems

Telecommunications

Advanced Database Theory

MATHEMATICS

Discrete Mathematics I

Discrete Mathematics II

Probability & Statistics II

Complex Variables

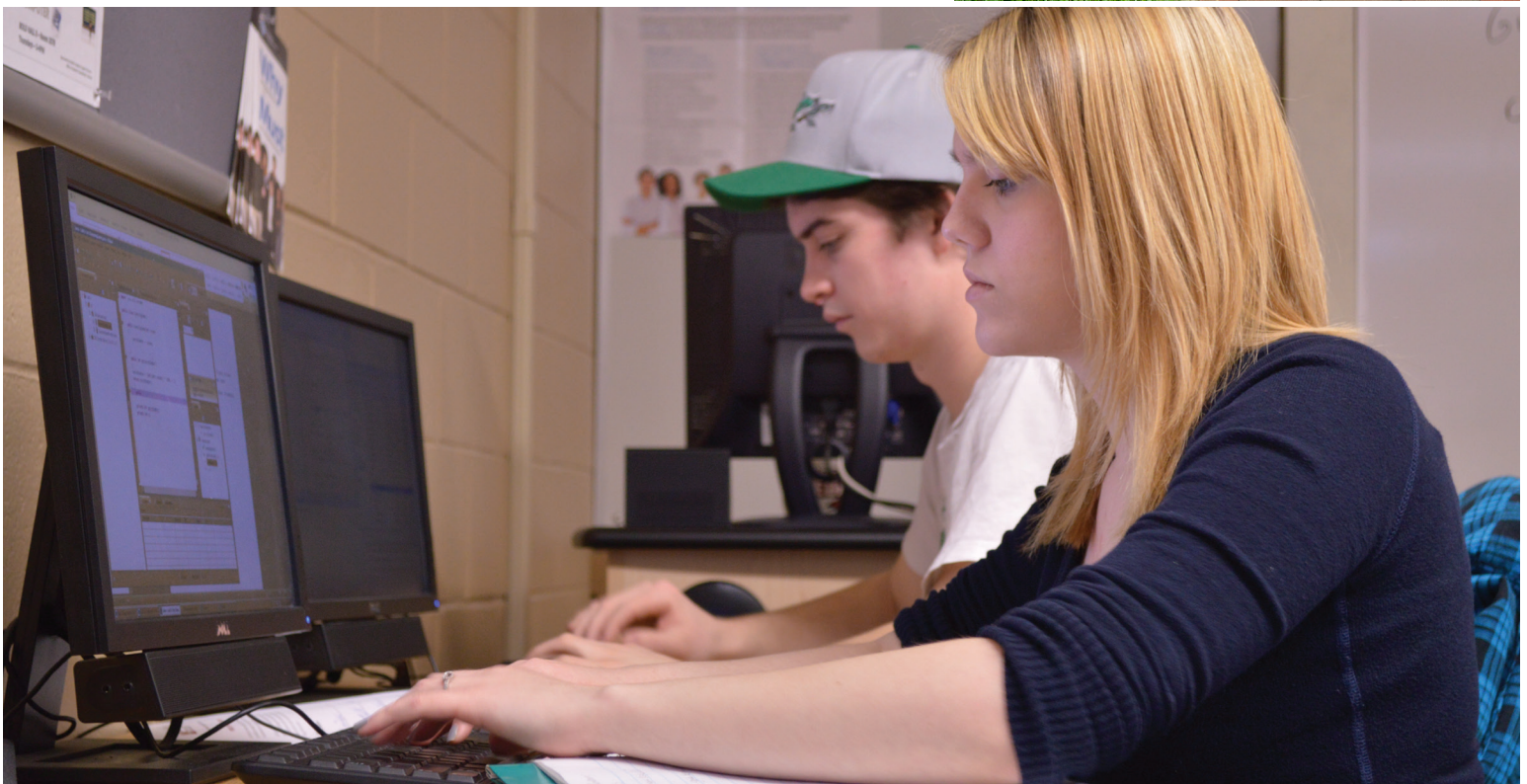
History of Mathematics

Modern Abstract Algebra

Geometry

Real Analysis

*Any other LRU course taken as a Technical or Professional elective must be pre-approved by the University of Pittsburgh, Swanson School of Engineering's Coordinator of Transfer Student Services.



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