

# Engineering

with a Mechanical Concentration



Learn all the technical and problem-solving skills of an engineer but coupled with strong communication abilities, an interdisciplinary sensitivity, and a theological groundedness only found in the Christina liberal arts.

This Bachelor of Science in Engineering will give you a firm foundation in the engineering field as a whole but with upper-division courses that provide a mechanical engineering concentration. Apply your knowledge in a sequence of project-based courses as you join a team tackling a real-world problem. An internship with a local technology company will provide additional valuable experience. A specially designed Engineering Mayterm will further hone your skills. Finally, a junior and senior seminar sequence helps you place your education in a broader context demonstrating the interconnectedness of engineering science with other disciplines such as theology, sociology, art, and philosophy.

## SELECTED COURSES

- Engineering and the Liberal Arts
- Multivariable Calculus
- Circuits and Electronics
- Materials Engineering
- Control Systems
- Mechanical Design
- Engineering Seminar II: Faith, Technology, and Christian Responsibility

## CAREER PATHS

- Aeronautical Engineer
- Drafting Technician
- Controls Engineer
- Design Engineer
- Equipment Engineer
- Instrumentation Engineer
- Materials Engineer
- Project Engineer
- Research and Development Engineer
- Structural Engineer



**WESTMONT**

## FACULTY HIGHLIGHTS



KEN KIHLSSTROM, PH.D.

Demonstrates physics by lying on a bed of nails and walking on hot coals



MICHAEL SOMMERMANN, PH.D.

A nuclear physicist who takes astronomical photos



RUSS HOWELL

He is co-author of *Complex Analysis for Mathematics and Engineering*



MARYKE VAN DER WALT, PH.D.

A mathematician and musician who applies data science to diabetes



ANNA ABOUD, PH.D.

Pursues effective and efficient processes in mathematics, data science, and mathematics education.



TOM WHITTEMORE

A nuclear physicist who takes astronomical photos

## OPPORTUNITIES ABROAD



- Westmont in Asia
- Westmont's Europe Semester
- Westmont in San Francisco
- Westmont Downtown
- Westmont in Mexico
- Westmont in Northern Europe

## RESEARCH

Like all Westmont students, engineering majors will have the opportunity to conduct research with professors or pursue their own projects and ideas. This hands-on experience prepares them for engineering jobs and for graduate school.



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[www.westmont.edu/engineering](http://www.westmont.edu/engineering)