



Robots! Students experience the thrill of mastering basic concepts in robotics and computer programming, while solving some challenging problems.

Because of the popularity and size limit of the camp, please submit your applications at your earliest convenience.

[For application forms, please visit the program website:](#)

<http://CL.stmarytx.edu/esp/>

For more information, contact the Program Director:

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ST. MARY'S UNIVERSITY



St. Mary's University
Pre-Engineering
Summer Program

<http://CL.stmarytx.edu/esp/>

Welcome to Join Us for the Fun!



Did you ever wonder how robots are programmed to perform specific tasks?

Our camp will introduce the basic concepts of robotics through hands-on activities.

You will learn to build and program robots using the Lego Mindstorm EV3 kits.

Activities will include, but not be limited to the following:

- Assemble the Mindstorm EV3 robots
- Introduction to robot programming environments
- Discuss robots' input sensors and output ports
- Write programs to make the robot move forward or backward and turn right or left
- Program the robot to follow the line, hear the sound, and detect obstacles around
- Many other interesting and challenging hands-on projects

Interested in learning how to program in high demand languages like Java, C++, and C#? Would you like to learn how applications are developed by programmers and engineers?

At our summer camp, you will get to learn how to code in an object-oriented language. Programming will be fun, making this one of the coolest programs you can be a part of this summer!



About the Program

Pre-Engineering Robotics and Java Programming Summer Program is a special five-day summer program designed to give high school students with an interest in science and engineering an opportunity to explore engineering as a career.

Sessions will include hands-on activities on robotics using Lego Mindstorm EV3 kits and Java programming with Alice. During the camp, there will be visiting engineers to share their experiences with students. St. Mary's staff will provide information about the university applications and financial aid. Students will have campus tours and many fun activities at our campus.

Students are encouraged to apply if they are currently enrolled in high school and have interest in engineering.