

[APPLY ONLINE \(CLICK HERE\)](#)

APPLICATION DEADLINE: MAY 25, 2015

You can submit this application by mail, or in person to:

El Camino College, I & T Division, ITEC 102 — 16007 Crenshaw
Blvd. Torrance, CA 90506 — Phone: (310) 660-3600

THE START PROGRAM 2015 APPLICATION		
First Name (PLEASE PRINT CLEARLY):		Last Name (PLEASE PRINT CLEARLY):
SIGNATURE (under 18 parent signature required):		
Address:		
City:		Zip Code:
Phone (Day or Cell):		Phone (Evening):
Email (PLEASE PRINT CLEARLY):		
Name of High School: _____		
Graduation Year: _____		
Have you taken Principles of Engineering (POE), Introduction to Engineering Design (IED) or participated in FIRST Robotics or any STEM course? YES / NO If Yes, which one(s): _____		
How did you hear about the START program? <input type="checkbox"/> Teacher <input type="checkbox"/> Friend <input type="checkbox"/> Flyer <input type="checkbox"/> Poster <input type="checkbox"/> Web page <input type="checkbox"/> Other: _____		
ECC Student ID Number:		
Please include with your Application <i>no more than</i> a one-page letter describing why you are interested in participating in this program and any STEM interests you may have at this time (500 words or less).		
<div>(Office use only)</div> <div> Confirmation sent: <input type="checkbox"/> Yes Application processed: <input type="checkbox"/> Yes Revised: March 21, 2015 </div>		

The El Camino Community College District is committed to providing equal opportunity in which no person is subjected to discrimination on the basis of ethnic group identification, national origin, religion, age, sex, race, color, ancestry, sexual orientation, physical or mental disability, or retaliation.



EL CAMINO COLLEGE

Division of Industry and Technology

STEM PROGRAM

The START Program

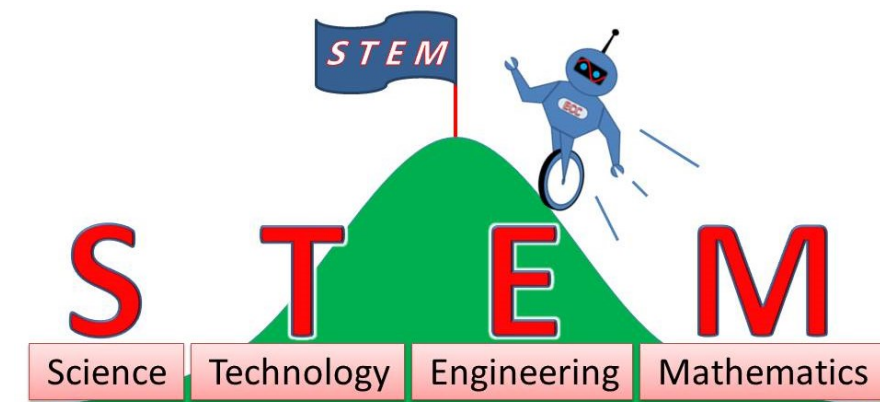
STEM Training and Robotics Technology

**Career Pathways
and
Robot Building Experience**

SUMMER 2015

July 6 through July 30

Monday through Friday 9 a.m. to 1 p.m. Room # ITEC 33



The START Program is your start to a STEM career

PROGRAM DETAILS

PURPOSE	Inspire, highlight and create awareness of career pathways, opportunities and education spanning Science, Technology, Engineering and Math (STEM). Develop a student's ability to achieve a STEM career. Design and build a VEX robot for class competition.
DESIGN	A hands-on, active, rewarding project based program. Develop critical, creative and innovative reasoning skills. Encourage student interest in a STEM education.
DEPARTMENTS	Computer Aided Design and Drafting Electronics / Computer Hardware Technology Engineering Technology Manufacturing / Machine Tool Technology
ELIGIBILITY	Open to all ECC students and high school students enrolled in ECC by the application deadline, May 25. There is no prerequisite course required to apply.
COST	FREE: Funding provided by a federal HSI STEM grant.
SCHEDULE	July 6, 2015 through July 30, 2015 Monday through Friday (Friday field trips) 9:00 a.m. to 1:00 p.m.
LOCATION	El Camino College, 16007 Crenshaw Blvd. Torrance, CA Industry Technology Education Center, Room # ITEC 33
APPLICANTS	APPLICATION DEADLINE: MONDAY, MAY 25, 2015. Admission decision notifications will be emailed to all applicants Friday, May 29, 2015 (seating is limited).
TEACHER / COORDINATOR	Glen Chapple, email: gchapple@elcamino.edu UCLA Electrical Engineering, ECC Mathematics Alumnus
<ul style="list-style-type: none"> ◆ Students will learn to solve problems and develop solutions used in real-world applications found in day-to-day life and the workplace ◆ Students will gain hands-on experience, critical thinking skills and good interpersonal abilities sought by technical industry today ◆ Students will learn to understand and be able to articulate the interdisciplinary aspects of STEM used in technical industry today ◆ Students will learn that science and mathematics are foundational, and engineering and technology add value to those foundations <p>Are you ready to START? We are ready to start helping you!</p>	

PROGRAM OUTLINE

<p>Week 1</p> <ul style="list-style-type: none"> • Introduction to robotics and robot design • "Magic of Science" presentation • Science topics • Measurements, units and conversion factors • Principles of Engineering (POE) • Computer Hardware Technology • "Electromagnet" project
<p>Week 2</p> <ul style="list-style-type: none"> • Robot motion, power and sensors • Introduction to Engineering Design (IED) • Computer Aided Design/Drafting (CADD) • Electronics • Computer Integrated Manufacturing (CIM) • Manufacturing Technology • "Electric Telegraph" project
<p>Week 3</p> <ul style="list-style-type: none"> • Robot control, logic and programming • Engineering Design and Development (EDD) • Machine Tool Technology (MTT) • Engineering topics • Mathematics topics • College tours and speakers • "Electric Motor" project
<p>Week 4</p> <ul style="list-style-type: none"> • Robot testing and practice for competition • Robotics PowerPoint presentations • Robotics team competition and awards • Industry tours and speaker • STEM education success tips • STEM career pathways • Certificate of completion awards

Scan this QR code to visit us, or go online to:

www.elcamino.edu/academics/indtech/start

