Calling all Roboteers!

TEMPLE UNIVERSITY
ELECTRICAL AND COMPUTER ENGINEERING

A COLLEGE ENGINEERING COURSE
FOR HIGH SCHOOL STUDENTS
SUMMER 2008

EE 001 - INTRODUCTION TO ELECTRICAL
AND COMPUTER ENGINEERING  2 credit hours

Learn how to build programmable mobile robots and compete with other high school students in the Delaware Valley, get a great introduction to a college course in Electrical and Computer Engineering and earn 2 college credits that can be used for credit at institutions of higher education.

JULY 8th, through AUGUST 7th, 2008

TEMPLE MAIN CAMPUS: Engineering Building, 1947 N. 12th Street
Tuesday, Wednesday, Thursday: 9:30-11:45 AM

This course will introduce students to some of the basic concepts of electrical and computer engineering. It will also provide extensive laboratory experience where the students will build autonomous, programmable mobile robots also give a good overview of the different specialties within the fields of electrical and computer engineering. Topics to be covered are:

1. Electrical components: Resistance, capacitance and electromagnetic induction coil.
2. Electronic components and integrated circuits: Diodes, transistors, operational amplifiers and timer circuits.
3. Programmable microcontrollers, photoresistors, infrared sensors and transmitters.
The course requires no homework or exams. Grading is based upon how you do in the "Journey Competition" shown below. Temple professors, graduate and undergraduate students will instruct you every step of the way in the state of the art electronics laboratory. Each robot is to navigate the course shown below starting at the left and navigating to the finish line at the bottom right. This is identical to a courses used in international robotic competitions. If you would like to see a video clip of years past course activities go to http://www.temple.edu/engineering/summer.html and click on “Robotics 2008” and you will see what a blast the course was from this website.

COST

PENNSYLVANIA RESIDENTS: $500
OUT OF STATE RESIDENTS: $800

Tuition is based on number of applicants. Also financial assistance is provided by granting agencies such as NASA and Verizon. It is extremely important that the application be received to determine tuition cost.

Tuition grants will be given from $250-$350.

LIMITED NUMBER OF PARTIAL SCHOLARSHIPS ARE AVAILABLE!!

Students who are recommended by their High School Counselor and approved by the instructor of this course will be considered for a partial scholarship from $250-$350.

Deadline for returning application form is Friday, MAY 9th, 2008.

FOR MORE INFORMATION:

Contact: Ms. Carol Dahlberg of the Phone: (215)204-7597
Electrical & Computer Engineering Dept. e-mail: eegrad@temple.edu
APPLICATION FORM

Student's Name:______________________________________________________

e-mail address: _______________________________________________________

Home Address: _______________________________________________________

_______________________________________________________

City                                       State                                       Zip

Home Telephone Number: _______________________________________________

Name of High School:   __________________________________________________

High School Address:   __________________________________________________

High School Telephone: ________________________________________________

________________________________________________________________________

I certify that the above name student is qualified to participate in the EE 001 course,
based on his/her previous academic record, also will have completed the 10th, 11th or 12th
grade by June and is a U.S. Citizen.

In addition, I recommend he/she be considered for a scholarship.

YES ______  NO ______

_____________________________________

Signature of Counselor

______________________________________
Name of Counselor                         Date

The deadline is Friday, MAY 9th for returning the application form.
Please mail applications to:

Ms. Carol Dahlberg
Temple University
Electrical and Computer Engineering
1947 N. 12th Street
Philadelphia, PA  19122