

FEES AND REFUND INFORMATION

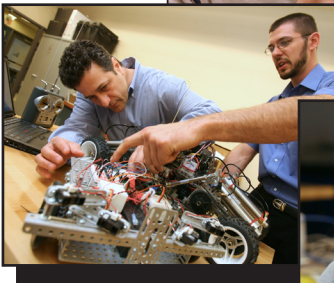
Due to educational materials being supplied by NCRETE grant funded activities, the fee for the 2010 Robotics Camp is \$199.

Having met the eligibility requirements, registration is on a first-come, first-serve basis. Once registered, you will receive a confirmation letter. Withdrawal from the program must be in writing and received at least 5 working days prior to the start of the program in order to receive a full refund. No refunds will be issued for withdrawals received after June 14.

GENERAL INFORMATION

Students are to bring a bag lunch. Refrigeration is not available. Please alert staff to any food allergies.

Room locations will be included in your confirmation letter, which you will receive when your registration is processed.



CALU ROBOTICS CAMP

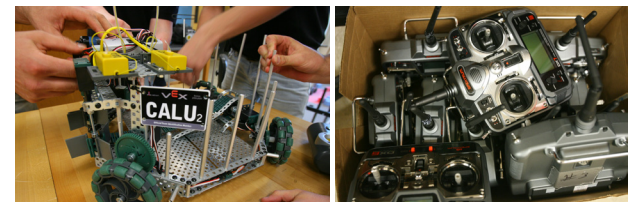
California University
of Pennsylvania
250 University Avenue
California, PA 15419



CALU ROBOTICS CAMP

JUNE 21-25, 2010

FOR HIGH SCHOOL STUDENTS - GRADES 9-12



CALIFORNIA UNIVERSITY OF PENNSYLVANIA
BUILDING CHARACTER. BUILDING CAREERS.
A proud member of the Pennsylvania State System of Higher Education.



WELCOME

The Robotics Camp is being sponsored by the Office of Lifelong Learning and the National Center for Robotics Engineering Technology Education (INCRETE).

The intent of this camp is to motivate the most talented and creative minds of a new generation, assisting them to become the future leaders in an increasingly high technology world. Participants will receive hands-on experiences in the following areas: Agile Robots, Mechatronics, Rapid Prototyping, and Animatronics.

ELIGIBILITY

This program is for students entering grades 9 through 12 for the fall 2010 school year. You must possess a good understanding of algebraic concepts (completing a minimum pre-algebra class with a letter grade of a C or higher), communicate effectively, and be willing to work in a team environment. You must submit your high school transcript along with your application and payment. Enrollment is limited.

LOCATION

Robotics Camp will be held at California University of Pennsylvania Daily from 8:30 am to 4:00 pm June 21-25, 2010.

HOW TO REGISTER

You may register by mail, in person, or by calling (724) 938-5840 if using one of the credit cards listed below. Registration forms should be mailed to: California University of PA, Office of Lifelong Learning, 250 University Avenue, Box 12, California, PA 15419. Payment must accompany the registration. Payment can be made by check, cash, money order, MasterCard, VISA, or Discover. If paying by credit card, be sure to include all information on your registration form. Do not send cash through the mail. Make check payable to California University of Pennsylvania.



COURSE DESCRIPTIONS

AGILE ROBOTS

Learn how to build and program a robot. Participants will use the VEX robotics system to learn about mechanics, electronic circuits, control circuits, actuators, and microcontrollers. Learn how to use C-based programming to enable your robot to execute a task challenge. You will work in teams during the week and the learning focus will be on the projects.

MECHATRONICS

Explore the integration of mechanical components, electronics, and computer technology as you build an automated work cell using industry standard pneumatic actuators and switches. Learn industry jargon and gain an understanding of pneumatic circuits. Work with programmable logic controllers to control a complex mechanical system.

RAPID PROTOTYPING

Discover how to use 3-D Parametric Software to design a gripper or hand for your robot. Participants will use a rapid prototype machine to make useable parts. You will assemble the parts of the gripper and finally attach it to your robot. Problem solving and teamwork will be emphasized throughout the process.

ANIMATRONICS

Animatronics is used in moviemaking and in the theme park industry. With this in mind, come explore a blending of art and technology as you work to design an animatronics system. This class employs the use of skills from multiple disciplines, including robotics, art, and mechatronics. You will use a variety of materials to cover your mechatronic devices, making the project realistic and lifelike.

PHONE: 724-938-5840

FAX: 724-938-5963

E-MAIL: lifelearning@calu.edu

REGISTRATION FORM

Students Name _____ Age _____ Grade (Fall 2010) _____
Address _____ County _____
City _____ State _____ Zip _____
Parent/Guardian Name _____
Day Phone _____ Mobile Phone _____
E-mail Address _____
School District _____

PLEASE COMPLETE FOR CREDIT CARD PAYMENT VISA MasterCard Discover
Name on Card _____
Card Number _____
Billing Zip Code _____ Verification Code (CSV) _____ Exp. Date _____
I authorize a charge to this account of \$ _____ Date _____
Signature _____

REGISTRATION \$199

Total Payment Enclosed: \$ _____

Please remember to include your high school transcript along with your registration and payment.

As the parent or legal guardian of the above-named participant, I hereby absolve California University of PA, Office of Lifelong Learning, from all liability which may result from this minor's participation in the above activities, and give permission for my child to be photographed for program purposes.

Signature _____

Date _____

