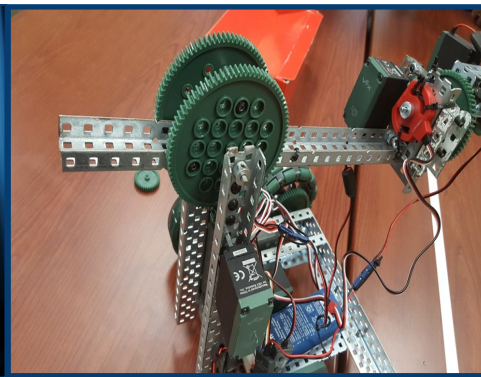


Vaughn College
of aeronautics and technology

Mechatronics



Think
Vaughn
Summer 2017

Pre-Engineering Summer Program 2017

Learn Mechatronics Engineering

Earn College Credits

Program Dates: Monday, July 10, 2017 — Friday, August, 18, 2017

Application Deadline: June 29, 2017

Cost: \$1,800.00 Includes Tuition, Meals and Programming

Eligibility: Students must have taken and passed the Common Core Algebra Regents

Scholarships may be available for those who qualify

**For more information contact Saralda Ortiz-Howard at 718-429-6600 ext. 161/289 or
via email: saralda.ortiz@vaughn.edu or leroy.jemison@vaughn.edu**

Intensive six (6) week summer college credited program introducing students to the world of engineering. The program will provide students with hands-on experience in the fields of Robotics and an Introduction of Mechanical Engineering to advance them in their pursuits of a college degree in Engineering. At the end of the program, students will showcase a project or research presentation to key personnel on campus including the Chair of the Engineering department. Students may be eligible to up to five (5) college credits.

Eligible Students:

- High School students who have successfully complete the Common Core Algebra Regents exam.

Courses Offered:

MCE101: Introduction to Mechatronics

Students are expected to build and program simple robots by utilizing VEX robotic platform hardware as prototype to conduct experiments demonstrating physics and mechanical properties. The topics cover robotic chassis and drive chain construction, wireless control and robotic system design, basic robotic programming and robotic dynamics, sensors, robotic arms and end effectors as well as fundamentals of industrial robotic arms.

MAT115: Pre-Calculus

This course covers polynomials, rational functions and transcendental functions. Topics for each type of function will include finding roots, graphing and modeling using applications from physics and engineering. Graphing utilities such as calculators and computers will be used where appropriate.

How to Apply:

By Fax: Fax completed registration form to 718-505-0667; Attention to Saralda Ortiz-Howard

By Mail: Send completed registration form to:

Pre-College Programs
Academic Support Services
86-01 23rd Avenue
Flushing, NY 11369

In Person: Bring completed registration form to the UB/STEP Office in room W161

Online: Go to www.vaughn.edu

Via Email: Email completed registration form to:

saralda.ortiz@vaughn.edu **or**
leroy.jemison@vaughn.edu

For more information or an application call 718-429-6600 ext. 161 or 289