To register for courses, visit behrend.psu.edu/academy
Registration opens May 1 at 10:00 a.m.

For information on the High School Academy, contact:

Youth Education Outreach
Burke Center
5101 Jordan Road
Erie, PA 16563
Phone: 814-898-6871
Email: youthoutreach@psu.edu
behrend.psu.edu/youthoutreach

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This publication is available in alternative media upon request.
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These week-long, intensive courses are taught on campus by Penn State Behrend faculty members and offer college-level learning experiences and career-exploration opportunities for students ages 15-18 or grades 9-12.

2015 COURSE LISTINGS

Wall Street Erie: Penn State Behrend Investment Challenge
Instructors: Brian Boscaljon, Ph.D., Timothy Krause, Ph.D., Jeffrey Coy, Ph.D., and Randy Brown
June 15-18; 9:00 a.m. to noon; August 26, Closing ceremony
Cost: $85

Become the Nittany Lion of Wall Street. When should you buy and sell stock? What is a diverse portfolio? What are the potential risks and returns? Learn about careers associated with financial management. Practice what you learn with StockTrak, the leading provider of virtual trading. There will be an end of the summer ceremony, where the best portfolio manager will win a tablet. (Ceremony scheduled for August 26 at 5:30 p.m. Details will be sent to registered participants.)

Introduction to Multimedia and Web Design
Instructor: Inkyu Kang, Ph.D.
June 22-26; 9:00 a.m. to noon
Cost: $125

What is multimedia and web design? What careers are available in this growing industry? Students will create 2-D and 3-D graphics, animations, and design Web pages. By the end of the course, you will have created an online portfolio and worked with industry-standard tools such as Adobe Photoshop, Illustrator, Flash, and Premiere. Come see what multimedia production skills you can develop.

Video Production
Instructor: Tom Deau
June 22-26; 9:00 a.m. to noon
Cost: $150

Ever wonder how TV commercials are made? Now is your chance to learn. Come to Behrend to learn how to create a commercial, using a JVC GY-HM 150U video camera, Adobe Premiere Pro Creative Cloud software, and other state-of-the-art tools to create a story board, write a script, and shoot video. All aspects of video production careers will be covered. Lights, Camera, Action!

Factory Automation with Programmable Logic Controllers
Instructor: Roger Kuntz
July 13-17; 9:00 a.m. to noon
Cost: $150

Why do traffic lights change when they do? How does an elevator know what floor to stop on? How do complex assembly lines work? What about amusement park rides? They all use programmable logic controllers or PLCs. Work in our specialized PLC lab and learn how to program sensors, motors, indicators, and more. As part of the course, you’ll design an automated transportation and product motion system.

Audio Engineering and Music Production
Instructor: Joel Hunt
July 13-17; 1:00 to 4:00 p.m.
Cost: $150

Do you like music? What about music for films, video games, television, radio, or mp3? This course is all about digital music production and the careers associated with it. You will learn to record, edit, and mix digital audio using Pro Tools, the industry-standard software application for music production. You’ll gain experience using software plug-ins, virtual instruments, microphones, and keyboard controllers.

VEX Robotics®
Instructor: Stephen Strom
July 20-24; 9:00 a.m. to noon
Cost: $175

Ever see a car park itself? How about a machine that can put a cell phone together from a bag of parts? Robots are everywhere, and in this course, you will get to design and build using VEX Robotics® components while working with a computer engineer. The skills gained in this course—innovation, teamwork, and design—are invaluable for those who want to continue in engineering.

Embedded Computer Programming
Instructor: Stephen Strom
July 20-24; 1:00 to 4:00 p.m.
Cost: $175

Ever wonder what is happening inside a cell phone? Or how an Xbox controller works? Explore computer programming using a DuinoMite-Mega computer, a simple open-source board that can be programmed for a variety of operations. You’ll learn how to play sounds, create games, and use sensors while programming in a hands-on environment. At the end of the course, you’ll get to keep your board and the programming you’ve created.

Video production, audio engineering, web design, and stock market trading are just some of the topics you can learn while using Penn State Behrend’s state-of-the-art facilities, labs, and software programs.