What is Computer Science Summer Camp?

The Computer Science Summer Camp is a camp run every year by the Eastern Kentucky University Computer Science Department that provides a unique experience for students age 7-18. It makes the sessions they attend fun and exciting, but also educational. The camp allows students to enhance their imagination, artistic and creative skills, along with problem solving, analysis, design, and programming skills. Students grow by leaps and bounds in just four days. Come and join the fun!

Scholarships

A limited number of $100 scholarships are available for children in need of financial assistance to come to camp. Minorities (including females) from low income families are strongly encouraged to apply. The child will need a letter of recommendation from a teacher, including how he/she fits the scholarship requirements (e.g., minority and/or need for financial assistance). The teacher should comment on the student's interest in coming to camp, work ethic, ability to follow directions, attendance and the ability to get along with others. Reading comprehension, math, and science skills are most helpful. Transportation will not be provided by the camp; teachers will need to address any transportation concerns. The child will need to write a letter stating why he/she wants to come to camp and provide contact information.

Send by the end of MAY to:

Department of Computer Science
521 Lancaster Ave
Wallace 417 attention Ka-Wing Wong
Richmond KY 40475
Or
Ka-Wing.Wong@eku.edu

The letters will be reviewed by the scholarship committee. Once the decision is made, all who apply for the scholarship will then be contacted as to whether or not they received a scholarship.

Schedule

http://www.cs.eku.edu (select Summer Camps)

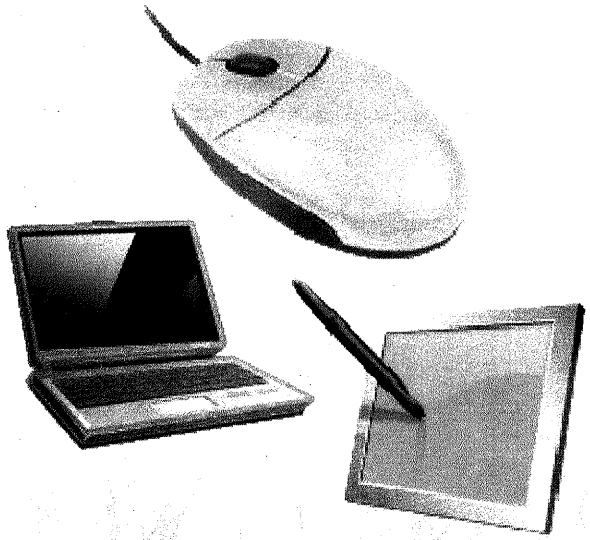
1-5 p.m., Monday-Thursday

Week	Dates	Class	Ages	Location
1	6/11-6/14	Intro Robotics	7-10	Richmond
		Intro Japanese Animation	11-18	Richmond
		Puzzles, Games, and Magic — Middle School	11-14	Richmond
2	6/18-6/21	Dino Story Creation	7-10	Richmond
		Advanced Japanese Animation	11-18	Richmond
		Puzzles, Games, and Magic — High School	14-18	Richmond
		Intro Robotics	7-10	Manchester
3	6/25-6/28	Intro Robotics	7-10	Richmond
		Creative Scrapbook	7-14	Richmond
		Architecture Design	11-18	Richmond
4	7/9-7/12	Computer Game Design	7-14	Richmond
		Intro 3D Modeling	14-18	Richmond
		Intro Java Programming	14-18	Richmond
		Intermediate Robotics	10-14	Corbin
5	7/16-7/19	Computer Game Design	7-14	Richmond
		Intermediate 3D Modeling	14-18	Richmond
		Creative Visual Novel	11-18	Richmond
		Intro Robotics	7-10	Corbin
6	7/23-7/26	Tablet Challenge	7-10	Richmond
		Intermediate Robotics	10-14	Richmond
		Computer Forensics	14-18	Richmond

EKU Computer Science
Summer Camp/Internship

Eastern Kentucky University

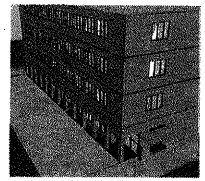
Computer Science Summer Camp



June 11 - July 26, 2012

Registration

Online: http://www.ceo.eku.edu
Phone: (859)622-1228 or 1-877-358-6742

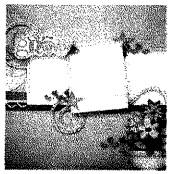


Architecture Design

Would you like to be an architect of your dream city? In this camp, you will learn to design and virtually construct 3-D building models of a city. Unleash your imagination, be creative, and have fun creating your dream city. You will also learn to make animated virtual tours.

Computer Forensics

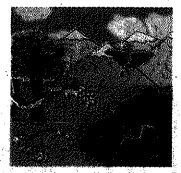
Do you want to know where and how information or data can be hidden on your computer? Do you want to know how the FBI agency or computer forensics investigator can recover your Windows logon password, retrieve your web site account username and password, and obtain the information you used to fill the form for online shopping? Come to CS Computer Forensics summer camp. In this four-day camp, you will understand the basic information hidden and encryption principle, and learn to use the advanced tools for hidden information recovery and password cracking.



Creative Scrapbook

Do you love the crafting, storytelling art of scrapbooking? Have you ever considered illustrating your skills digitally? Come delve into the digital world of scrapbooking and discover how you can share your unique experiences. With scrapbooking software you can add music, narration, apply effects to your photos, and even build your own backgrounds and frames! Come see us this summer to create photo books, calendars, DVDs, and more!

Dino Story Creation



Immerse yourself into the world of dinosaurs. Create your own dinosaur stories. Learn to draw dinosaurs using a tablet PC and share your stories with others using presentation software and sound effects. This camp is designed for kids to use their creativity with technology and develop computer communication skills.

Tablet Challenge

This IQ booster camp is designed for kids who want to have fun and be challenged at the same time. Participants will work on projects that help them develop logical thinking and problem solving skills.

Intro Japanese Animation

Learn to draw Japanese style cartoons and add in simple animations and sounds. With the help of the Wacom digitizer tablets the students attending this camp will learn an easy way to convert a paper drawing into a digital one. They will also be learning different types of shading and coloring techniques, including cell shading and Photoshop tools like burn and dodge.

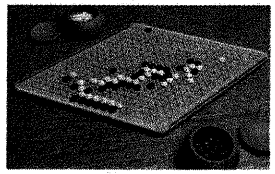
Advanced Japanese Animation

Continuation of Intro Japanese Animation. Students will be starting work with pen tool and more dynamic poses as well as more expressive facial features. Animations will advance past blinking and will move towards body movements .

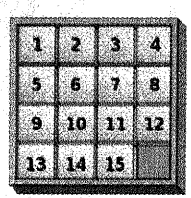
Creative Visual Novel

Unleash your imagination to create an interactive story in mixed electronic media. You will learn to construct your novel using JavaScript so that it can be available on the web for your friends to enjoy.

Puzzles, Games & Magic — Middle School

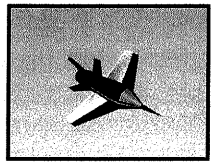


Flex your mental muscles with a wide assortment of mathematical puzzles, games and magic, including Sudoku, Hex, Connect 4, Othello, and MasterMind. We will break into small groups to discuss strategies for each, and then develop new games.



Puzzles, Games & Magic — High School

Now apply your mathematical reasoning skills to problems that appear on statewide and national math exams (Math Counts, AMC 8, AMC 10/12, AIME). We will also look at more advanced mathematical strategy games like the 15-Puzzle, Magic Squares, Twixt, and Alphametics.



Intro 3-D Modeling

Bump it up to the next dimension. Use powerful 3-D modeling software to learn the basics of 3-D modeling. Create and color your very own 3-D models, and then use them to create your own short animations.

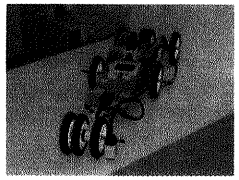
Intermediate 3-D Modeling

Move from inanimate objects to people, animals and beyond! This class builds on top of Intro 3-D Modeling and introduces you to the world of texturing and model animation. Learn how to build your own humanoid model and animate it to life.

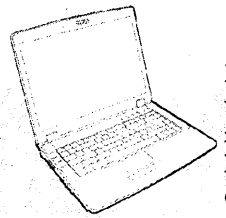
Intro Robotics

Combine drag and drop animation and the fun of LEGO®s into one amazing experience. This camp uses the latest LEGO® robot and teaches students the basics of logic based thought while allowing them to enjoy the summer; they will complete activities such as programming the robot to play tag, dance, and even play a rousing game of golf.

Intermediate Robotics



Design and implementation of robotic system to solve problems such as remote control or climbing a wall. Study physical design constraints on robotic systems such as frictions, timing, and events.



Intro Java Programming

Learn to write computer programs with one of the most popular programing languages in the world. You will learn program input, output, algorithm design, program testing, and much more.

Computer Game Design

Design your own computer games and share the fun with your friends. The camp helps you develop critical and creative thinking skills in an enjoyable way.