

**NORTH CAROLINA A&T STATE UNIVERSITY
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2009 Aggie Enrichment Camp

Office of Summer Sessions & Outreach

336-334-7607

1-888-323-6837

Exploring Engineering & Physics

Dates: June 15 – 19, 2009 Ages: 8 – 10 years

June 23 – 26, 2009 Ages: 11 – 14 years

Description: Explore The world of Physics and Engineering

Have you ever taken a ride on a roller coaster? Have you ever taken a picture with a camera or worn a pair of sunglasses before? Have you ever gone bowling or played baseball or danced? See how motion and mechanics, force, torque, angular momentum, light, compound and simple machines are intertwined in everyday objects and activities in the real world. Find out what all these things have in common. Explore the fun and excitement of physics. Explore the physics of sports and test different types of drinks for their effect on sport performance. Make a simple machine. Build and design a tower that can support a certain load. Let's hope your tower does not collapse! Let's see if you have what it takes to be an engineer. Given certain building materials, design a structure that can withstand a strong wind. Design and make your own motor. Be as creative as you want. The sky is the limit. Explore the physics of musical instruments. Learn about the different areas of engineering. (construction, electrical, mechanical, architectural, chemical, civil, and industrial). Everyday of the camp is a hands-on experience. Nothing is boring about this camp!!!! Join us for some real fun and excitement!!! All we need is you!!!!

Robotics

Dates: July 13 – 17, 2009

Ages: 6 – 9 years

June 22 – 26 or July 20 – 24, 2009

Ages: 9 – 12 years

July 6 – 10 or July 27 – July 30, 2009

Ages: 13 - up

Description: During this week-long experience, participants will be introduced to the skills necessary to build and program a robot kit provided by the camp. Participants will develop programming logic through use of the NXT Mindstorms kits. Students will also learn the basic concepts of teamwork as they work together in small groups. The camp will culminate with students being challenged to develop a robotic design that responds to a themed, objective-oriented challenge that represents a real world problem. High school students will learn and develop the same techniques need to program and build robotic using a different type of robot.

The EOG Doesn't Scare Me

Dates: July 27 – 30 Age: 11 – 13 years

July 6 – 10 Age: 7 – 10 years

Description: Students will learn the fundamentals of reading comprehension and instruction will be driven from heavily teased objective on the EOG according to the

North Carolina Standard Course of Study. Come with an open mind and an eagerness to learn.

Paul Robeson Theatre Summer Arts Camp for Youth

Dates: June 15 – 19, 2009 or July 13 – 17, 2009 Ages: 6 – 8 years
 June 23 – 26, 2009 or July 20 – 24, 2009 Ages: 9 – 11 years
 July 6 – 10, 2009 or July 27 – 30, 2009 Ages: 12 - up

Description: Do you enjoy acting, singing, dancing, writing and crafts? Come join NC A&T's theatre arts summer program with exciting activities that will develop your theatre skills and talents on stage and off. This camp is designed to give young people and teens training in several different areas: acting, improvisation, costume, crafts, movements and voice. Each week has its own theme and culminates with a final performance showcasing the participants' experiences from that week.

Making Things Move (3D Animation Summer Camp)

Dates: June 15 – 19 or July 13 – 17 Ages: 11 – 16 years

Description: Learn the techniques used in making animation movies and games. Develop the design, model and textures of your 3D character. Use animation principles such as timing, anticipation, arcs, pose to pose action and much more to animate your 3D model.

Pupils will be introduced to the concepts and practice of designing, modeling and animating their own 3D environment. Create objects and text. Make realistic scenes with textures, transparency and mesh objects. Create cool effects using volume lights. Expand your skills using illustration, and animation. Produce creative animations, illustrations and navigation for short movie scenes. You will start out creating simple objects and text, and then try your hand at adjusting their color, size and shape. Requirements: Basic Computer Operation Skills

CAAD Summer Institute (Computer-Aided Design And Drafting Summer Institute)

Dates: June 15 – 20 Ages: 11 – 15 years

Description: Students participating in this summer institute will gain a greater understanding of the CADD industry. Students will learn the foundational principles and visualization strategies of viewing and drawing objects correctly. Participants will learn how to draw objects electronically with accuracy and clarity. Students will engage in interactive lessons that will involve many hands on activities.

Learn To Sew For Fun and Accessorizing Project Runway

Dates: June 15 – 19 Ages: 9 – up July 27 – 31 Ages: 11 – 16 (Project Runway only)

Description: Like to sew or want to learn, like fashion and creating your own styles. Come join us in this one week camp and have fun learning what it take to be a fashion designer and learn to sew. Project will be taken home for you to share and enjoy at the end of this exciting week. All we need is you and your desire to learn.

Science As An Everyday Experience

Dates: June 22 – 26 Ages: 10 – 14

Description: Campers will discover how fascinating the world is when they learn the chemistry behind how everyday things work. The young scientist will explore various areas in science through hands-on science experiments. They will gain an understanding of how chemical reactions turn the ordinary occurrences around us into remarkable events. They will venture out by touring the campus of NC A&T State University to explore many science related tools available to students who attend the university.

Spanish Is Great For Summer

Dates: June 22 – 26, 2009 or July 6 – 10, 2009 Ages: 6 – 9

Description: Learn another language or brush up on your Spanish. Participants will learn basic Spanish words and idioms in a creative way using a variety of techniques such as drama, painting, writing and much more. They will also learn some facts about South American culture. Create your own crafts to take home and enjoy with the family.

Amazing Science

Dates: June 22 – 26, 2009 Ages: 7 – 10

July 13 – 17, 2009 Ages: 7 - 10

Description: ATTENTION Young Einstein! The Amazing Science Camp will have you discovering how exciting science is. Each day campers will be exposed to a specific theme. The camp will daily incorporate literature and science while students are engaged in two hands-on science activities each day. The activities will correlate with North Carolina Standard Course Study Science Objectives. At the conclusion of the camp, the children will have hands-on as well as written assessment that covers the materials covered during the week.

Shape Up With Geometry

Dates: July 6 – 10, 2009 or July 13 – 17, 2009 Ages: 13 – 16

Description: This session includes activities that reinforce major geometry concepts through fun activities that students really enjoy. Many activities get them up and moving! Students will discover the relationship between angles, use their knowledge of angles to create circles graphs, learn how to classify different triangles and quadrilaterals, and how to construct these types of figures.

Aggie CSI

Dates: July 6 – 10, 2009 Ages: 11 – 14 years July 20 – 24, 2009 Ages: 8 – 10

Description: “Young Investigators”, you have been chosen to uncover several mysteries for Aggie CSI Crime Patrol. You will explore several crime scene investigations with a variety of hands-on activities. Students will learn how to uncover clues on specific crime scene events, identify various types of fingerprints, recognize and describe parts of the human anatomy and interact with community professionals related to forensic pathology.

Website Design

Dates: July 6 - 10, 2009 Ages: 11 – 16 years July 20 – 24, 2009 Ages: 10 -16

Description: Want to design and build your own website?

Beginning Tennis

Dates: June 15 – 19, 2009 Ages: 8 – 12 years

Description: Have fun with Tennis and improve your physical fitness. Every child will have the opportunity to engage in healthy, lifelong activities in a safe and supportive environment. This program encourages health and fitness, increases confidence, self-esteem, hand-eye coordination and emphasizes fun through participating in Tennis. Fundamental skills will be taught to campers that include proper gripping of rackets, footwork, game concepts. Endurance and flexibility training will be included. **Please bring water bottles.**

Martial Arts Camp

Dates: June 22 – 26, 2009 Ages: 8 - 12

Description: This program is designed to introduce young boys and girls to martial arts in a safe and fun environment. Participants will have the opportunity to learn TaeKwonDo, Self-Defense, Ta Chi, and Yoga techniques. Participation in these activities will improve their endurance, flexibility, coordination and build their self-confidence, self-esteem, concentration and self-control. **Please bring water bottles.**

Health & Sports Fitness

Dates: July 6 – 10, 2009 Ages: 8 - 12

Description: Improve and maintain good healthy habits through physical activity and sports. Participate in a variety of sports during the week like flag football, basketball, softball, volleyball, soccer and tennis in addition to other sports. Physical fitness will be emphasized that include stress management, general fitness, toning and flexibility along with water safety. **Please bring water bottles.**

Survivor Camp

Dates: July 20 – 24, 2009 Ages: 6 – 16 years

Description: It's survivor camp! Explore the fun of outdoor sports and activities. Learn what it takes to stay safe and still have loads of fun! This weeklong summer camp lets you participate in sports such as tennis, track-n-field, softball, dodgeball, football, and soccer; showing you how to stay active and safe in the heat. This camp includes sessions on bike safety, fire safety, 911 procedures, water safety, personal safety, animal safety, electrical safety, outdoor safety, first aid, CPR and equipment safety. Plus, campers interested in getting CPR/First Aid Certification and meet the Red Cross Age requirements can receive their certification for a separate fee of \$8.00. So! Learn to be safe and enjoy the summer outdoor fun! Sign up for Survivor Camp: Outdoor Fun and Safety. **Please bring water bottles.**

Girl Power

Dates: July 27 – 31, 2009 Ages: 8 – 15 years

Description: This program is designed to develop leadership skills in young girls through exposing them to a variety of sports and fitness related activities as well as responsibilities. In addition to participating in basketball, soccer, tennis, volleyball and other sports activities, physical fitness information and activities will be introduced to them to encourage a healthy lifestyle. Individuals in the program will learn self-defense and awareness training along with exercises in team building, problem-solving and

communication that are all designed to improve self-image and build self-esteem and self-confidence in each young lady. **Please bring water bottles.**

The Three R's

Dates: July 6 – 10, 2009 Ages 9 – 11; July 27 – 31, 2009 Ages: 6 - 8 years

Description: Students will learn valuable techniques to help them improve their reading speed, reading comprehension, writing abilities, and teach them how to become math problem solvers. This camp will utilize problem based learning strategies to enhance critical thinking while teaching students how to better understand and analyze non-fiction text. Math concepts will also be enhanced and reinforced while creating and solving real life word problems.

Project Runway

Dates: June 15 – 19, 2009 Ages: 9 – 16 years & July 27 – 31, 2009 Ages: 11 - 16 years

Description: Explore the many career facets of the fashion and modeling world. Learn what it takes to prepare for a career in fashion and modeling.

Instruction will include sessions in etiquette (runway and meals), health and diet, types of models or modeling, design and layout, basic sewing, career research, design and create garment, design and create accessories to compliment your garment to be modeled at the closing ceremony.