

FIND OUT HOW GOOD
YOU REALLY ARE.

Find us on:



Center for Gifted Youth Saturday Program Calendar

2012-2013

LIU Post Center for Gifted Youth

Dr. Joseph Piro, Interim Director

Mr. Henry Mazer, Headmaster

720 Northern Blvd.

Brookville, NY 11548

Phone: 516-299-2160 Fax: 516-299-3323

Fall Semester

October 6 – December 15, 2012

9:00 A.M. – 11:55 A.M.

October 6

October 13

October 20

October 27

November 3

November 10

November 17

November 24 **CLOSED** Thanksgiving

December 1

December 8

December 15

Spring Semester

February 2 – April 27, 2013

9:00 A.M. – 11:55 A.M.

February 2

February 9

February 16 **CLOSED** President's Day

February 23

March 2

March 9

March 16 **CLOSED** Spring Recess

March 23

March 30 **CLOSED** Spring Recess

April 6

April 13

April 20

April 27

Guidelines

IMPORTANT: Please mail fall and/or spring forms directly to the Long Island University Center for Gifted Youth office.

We encourage all grade 2-6 students to select courses from a variety of disciplines each semester. This is an opportunity to take subjects that are not typically offered during the regular school week.

As students are not individually evaluated or tested in their classes, courses that are not in the child's area of strength should also be considered.

In order to ensure individual attention to each student, enrollment in our classes is limited. As soon as a course is filled, it will be closed. In order to avoid disappointment, it is advisable to register early. We cannot guarantee placement in the Saturday program.

Registration Policy

Students should select, in priority order, three course choices for each hour. All choices listed on the registration form will be considered commitments. Should your child wish to be enrolled in a course with another child, a note signed by both parents must be attached to their registration forms.

Tuition & Deposit

Full tuition for the Saturday program is \$1,606.00 for each 10-week semester, plus lab fees (see next page).

The tuition includes a \$803 non-refundable deposit per semester to be paid when you register your child. We strongly recommend registering your child/children for both fall and spring semesters at this time. We believe this improves your child's experience by providing continuing friendships among students and allowing us to plan in advance for the needs of the individual. Registering for both semesters may also prevent your child from being closed out of the program in the spring.

THE FALL 2012 TUITION IS \$1,606.00
THE SPRING 2013 TUITION IS \$1,606.00

If you are planning on registering for both semesters, as is recommended, please send two separate deposit checks for each semester.

* Fall tuition balance is due by September 1, 2012

* Spring tuition balance is due by November 1, 2012

The LIUCGY office handles all deposits, tuition, and fees.

If we are unable to place your child because classes are full, the deposit will not be charged.

NOTE: \$803.00 deposit is required for each semester for which your child is registering.

Refund Policy

- If you wish to withdraw your child from the Center for Gifted Youth prior to the start of the semester, the tuition minus the deposit may be refunded.
- The only circumstance in which the deposit will be refunded is if the student becomes seriously ill before the start of the semester and a doctor's note is provided.
- Assignment to any course chosen by your child on the registration form commits her/him to attend. Therefore, choose only courses that will be suitable for your child.
- All withdrawal requests must be made in writing.
- Once the semester has started, there will be no refunds.
- Tuition must be paid by the due dates listed above, or your child will be removed from classes for that semester and your deposit will be forfeited.
- Under no circumstances will deposit or tuition payments be applied to another student or another semester.

Laboratory Fees

A laboratory fee of \$30 per science course will be charged to all students registered for science courses. These fees should be paid by separate check only after registration is confirmed and will be due at the same time as the tuition balance for that semester. Send no lab fees at this time.

Payments

Please make all checks payable to: **LONG ISLAND UNIVERSITY.**

Be sure to include the full name of the student at the bottom of your check so that you will be credited correctly.

You may also pay by credit card (**MasterCard, Visa or Discover**) by completing the attached payment form(s) and forwarding this information to our office via mail or fax 516.299.3323.

We require a signature, name of credit card, credit card number, expiration date, and CVV (3 numbers on the back of the card above your signature).

Mail all checks or credit card information with the completed payment form to:

Vera Savino
 LIU Center for Gifted Youth
 College of Education and Information Sciences
 Library Room 23
 720 Northern Boulevard
 Brookville, NY 11548-1300

CLASS SCHEDULE

Time	FALL October 6 rd – December 15 th , 2012	SPRING February 2 th – April 27 rd , 2013
Kindergarten -1 9 A.M. – 11:55 A.M.	Saturday Express: Science*, Mathematics, Humanities	Saturday Express: Science*, Mathematics, Humanities
Grades 2-3 Period 1 9 A.M. – 9:55 A.M.	Digital Journalism Geo-Art Geology: The Restless Earth* Investigations in Biological Science II* Mathematical Problem Solving	Forensic Science: Who Did it? * Investigations in Physical Science I* Keyboard Kids: Create Your Own Search Engine Mathematical Problem Solving The Robot Age: Rise of the Machine*
Grades 2-3 Period 2 10:00 A.M. – 10:55 A.M.	Digital Journalism Geo-Art Geology: The Restless Earth* Investigations in Biological Science II* Mathematical Problem Solving	Forensic Science: Who Did it? * Investigations in Physical Science I* Keyboard Kids: Create Your Own Search Engine Mathematical Problem Solving The Robot Age: Rise of the Machine*
Grades 2-3 Period 3 11A.M. – 11:55 A.M.	Digital Journalism Geo-Art Geology: The Restless Earth* Investigations in Biological Science II* Mathematical Problem Solving	Forensic Science: Who Did it? * Investigations in Physical Science I* Keyboard Kids: Create Your Own Search Engine Mathematical Problem Solving The Robot Age: Rise of the Machine*
Grades 4-6 Period 1 9 A.M. – 9:55 A.M.	Advanced Math Problem Solving Genetics: Inside the Cell* Build an iPad App Einstein's Science* Law and the Age of Technology	Advanced Math Brain Games Buildings that Changed the World* Consumer Chemistry* Law, Liberty and You Marine Biology: Preserving a Delicate Balance*

	Mysteries of the Surface of the Earth* Writing: Masterpieces in Miniature	Optics and Lasers* Write Like Stephen King
Grades 4-6 Period 2 10:00 A.M. – 10:55 A.M.	Advanced Math Problem Solving Build an iPad App Law and the Age of Technology Mysteries of the Surface of the Earth* Genetics: Inside the Cell* Physics and Beautiful Minds* Writing: Masterpieces in Miniature	Advanced Math Brain Games Buildings that Changed the World* Consumer Chemistry* Law, Liberty and You Marine Biology: Preserving a Delicate Balance* Optics and Lasers* Write Like Stephen King
Grades 4-6 Period 3 11A.M. – 11:55 A.M.	Build an iPad App Einstein's Science* Genetics: Inside the Cell* Law and the Age of Technology Mysteries of the Surface of the Earth* The Math of Chess Your Story: Memoir, Fiction and Poetry	Advanced Math Brain Games Buildings that Changed the World* Consumer Chemistry* Law, Liberty and You Marine Biology: Preserving a Delicate Balance* Optics and Lasers* Write Like Stephen King

***Science Fees Apply**

K-6 PROGRAM TECHNOLOGY INFUSION

For gifted students, 21st century learning presents unique challenges. To ensure that students in the CGY are well-prepared for these challenges, we are working to update our curriculum offerings so that skills including communication, creativity, collaboration, and critical thinking are well-represented. In addition, we are upgrading our technology infrastructure to offer students stimulating opportunities to experience cutting edge resources.

Among these resources will be media tools including net books and iPads, which use a rich variety of applications. Many courses will be Internet-based and include such applications as a customized Google search tool, graphing calculators, and software animation programs from MIT. Our goal is to infuse technology within the framework of our program in order to provide a more challenging, meaningful, and appropriate educational experiences for our gifted students preparing them for diverse leadership roles in the 21st century.

SATURDAY FALL COURSE DESCRIPTIONS

K-1 SATURDAY EXPRESS HUMANITIES, MATHEMATICS, SCIENCES

The Saturday Express is a program of exploration and discovery in science, mathematics, and the humanities. Students will be exposed to challenging ideas and concepts rarely introduced or explored at the early childhood level. They will be provided with hands-on learning experiences by expert instructors in their fields at a depth and pace appropriate to gifted children.

One class will emphasize mathematical thinking. Students will be encouraged to problem solve while having fun with shapes and numbers, as well as learn a variety of mathematical concepts. Another class will highlight the exploration of individual thematic units in science. The third class will emphasize the humanities, integrating literature, social studies, and the cultural arts, in interdisciplinary study.

Maximum attention is provided to each child in a non-pressured setting that encourages risk-taking and independent thought and action. Children are also given many opportunities to interact both intellectually and socially. These courses are designed so that students can participate for four consecutive semesters without repeating content.

FALL 2012 COURSE DESCRIPTIONS GRADES 2-3

Computers & Humanities

DIGITAL JOURNALISM

This course is designed to introduce students to the role of the news reporter. Under the guidance of the instructor and using the computer facilities of the University, students will work independently or in collaborative pairs to investigate people, places and international events. Student will learn techniques of news, feature, sports, writing and producing.

GEO ART

This is a course in the skill of visual perception as it involves discovering forms and patterns in works of art. Students will become aware of how geometry can be used both to create and understand art especially as it includes the works of Escher, Picasso and other 20th century masters. Students will have an opportunity to create their own examples of "Geo Art."

Mathematics

MATHEMATICAL PROBLEM SOLVING

This course will focus on developing good mathematical problem solving techniques. Students will learn to identify key words, find pertinent information and select an appropriate strategy for solving problems. They will also learn to use diagrams, models and charts to organize information. Classroom lessons will include short presentations on the various techniques used in problem solving followed by individualized, challenging exercises which will allow students to practice and improve their problem-solving abilities. Special care will be given to provide a variety of problems to meet the needs, interests and abilities of each student. New problems are presented each semester.

Science

GEOLOGY: THE RESTLESS EARTH

In this course, students will explore the movements inside our restless earth and their relationship to volcanoes and earthquakes. Students will learn what is deep inside our earth as they take an imaginary journey to its center. A "hands-on" approach will be used as students build models of the earth's layers and volcanoes. Students will learn about the different types of volcanoes, the ring of fire, plate tectonic theory, and tips for surviving an earthquake or volcanic eruption. They will also explore what Earth was like 250 million years ago when the continents formed one super continent, Pangaea.

INVESTIGATIONS IN BIOLOGICAL SCIENCE II

This course is designed to provide a variety of learning experiences about living things. The students will conduct investigations that show how different plants and animals are able to carry out their activities and complete their life cycles. Selected topics on the human body and its dependence on plants and animals will be investigated. An understanding of the relationships between living things and the non-living world will be developed and explored.

FALL 2012 COURSE DESCRIPTIONS GRADES 4-6

Computers & Humanities

LAW AND THE AGE OF TECHNOLOGY

Students enrolled in this course will role-play as attorneys and witnesses as they deal with cases involving human rights, air piracy, and national security. Cases will be chosen based upon the maturity of the class. Students will examine the treaties and other international agreements made among the nations of the earth. Law cases involving such treaties and agreements will be reviewed and presented in our courtroom.

BUILD AN iPad APP

Over a half million apps exist for the iPhone. There are about 140,000 apps for the iPad and this number continues to increase. How can young developers find their niche? One way is to find something novel; another way is to improve on what already exists. This course invites students to identify favorite apps for the iPad and to seek to improve them. No preexisting programming skills are needed: just the desire to engage in the engineering process of designing against constraints.

YOUR STORY: MEMOIR, FICTION AND POETRY

Contemporary writers John Updike and Joyce Carol Oates have worked successfully in a variety of genres including fiction, poetry and creative nonfiction. Students will consider their work as models for their own stories, poems and memoirs, and will examine how those genres resemble and differ from one another. They will be invited to submit their work for publication in the spring 2013 edition of *Our Journal*, the Center's annual anthology of student writing.

WRITING: MASTERPIECES IN MINIATURE

In this course, students will write short stories which have been modeled by five American masters of the genre, beginning with Edgar Allan Poe, who first defined it. They will study the elements of suspense, humor, irony, deceit, and surprise as they are developed in short fiction. Students will be encouraged to participate in peer review and response, and the process of revision. They will be invited to submit their stories for publication in the spring 2013 edition of *Our Journal*, the Center's annual anthology of student writing.

Mathematics

ADVANCED MATHEMATICAL PROBLEM SOLVING

Students will participate in activities that will help them develop and enhance their problem solving abilities. They will learn to analyze and solve non-routine mathematical problems, identify key words, and use diagrams and tables. They will also identify patterns and develop estimation and deductive reasoning skills. Weekly activities include short presentations on key techniques followed by small group and individual practice sets designed to challenge students and improve their critical thinking skills. Special attention will be provided to meet the needs, interests, experience and ability of each student. New problems are presented each semester.

THE MATH OF CHESS

Students enrolled in this course will have an opportunity to investigate the underlying mathematics in the ancient classic game of chess. Among the topics to be discussed will be algebraic notation, the geometry of the chessboard, and classic problems such as the "Eight Queens" and the "Knight's Tour". A basic understanding of the rules and strategy of chess would be helpful but is not essential for this course.

Science

EINSTEIN'S SCIENCE

This course explores some of the physical and mathematical relationships that will help students understand Einstein's Theory of Relativity. An open mind is all that is needed. Students will be taught the mathematics and physics necessary to understand course content. Topics to be covered include: momentum, Quantum Theory, atomic and nuclear physics, special and general Theories of Relativity, cosmology, and where we go from here.

GENETICS: INSIDE THE CELL

This course will take students on a journey deep inside the cell to study structures that control its makeup. Students will explore the discoveries of Mendel, Watson and Crick. Topics to be covered are Mendelian genetics, human inheritance, the structure of the DNA and RNA, and DNA fingerprinting.

MYSTERIES OF THE SURFACE OF THE EARTH

Why and how has the surface of the Earth changed over billions of years? In a series of hands-on activities, students will mimic the forces that have shaped our planet's mountains, valleys, flood plains, and beaches. They will even make their own sedimentary rocks. Convection currents, plate tectonics, mountain building, volcanoes, and earthquakes will be explained. Three-dimensional geological survey maps will be examined. The geologists who solved the mysteries of the surface of the Earth will be highlighted. Students will learn how Long Island was created at the end of the last Ice Age and why the North Shore is so geologically different from the South Shore.

PHYSICS AND BEAUTIFUL MINDS

This course will explore some of the greatest experiments and experimenters of all time. The thought process and theory behind some of the most exciting experiments of all time will be discussed and then performed. Eratosthenes' experiment to prove that the earth is round, Young's double slit experiment and the wave theory of light are a few of the subjects that will be explored. In addition to these, the course will allow the student to see and do the work done by Newton, Galileo and Rutherford. This course will let the children see the most beautiful experiments of all time, and give them a glimpse into some of the greatest minds.