CENTER FOR GIFTED YOUTH

SPRING 2021 PROGRAM
FEBRUARY 13 - MAY 8, 2021

CELEBRATING 41 YEARS
The Long Island University (LIU) program for gifted children was established in 1980 in response to the increasing recognition of society’s special responsibilities for children with demonstrably superior intellectual ability.

The LIU Center for Gifted Youth brings together two important elements of education for the gifted: extraordinary teachers recruited from leading high schools, middle schools, and elementary schools in the metropolitan area; and university-level facilities. These two factors, combined with an administrative and psychological team schooled in the needs of gifted children, give the program at LIU Post unique strengths in producing positive benefits for young people admitted to the program.

The Center for Gifted Youth’s underlying philosophy is the development of the intellectual potential of each child. Its purpose is to provide learning experiences for children with superior intellectual ability that will deepen and extend their intellectual interests, as well as develop the skills of independent learning.
OBJECTIVES OF THE CENTER FOR GIFTED YOUTH

1. To provide activities at appropriate levels and pace
2. To provide opportunities for gifted students to relate to each other intellectually and socially
3. To maximize problem solving and creative thinking experiences
4. To focus on leadership development
5. To increase self-awareness by promoting realization and acceptance of one’s capacities and an understanding of one’s needs and interests
6. To stimulate aspirations and pursuit of higher-level goals
7. To provide exposure to, and interaction with, stimulating and interesting adults

TECHNOLOGY INFUSION

For gifted students, learning presents unique challenges. To ensure that students in the Center for Gifted Youth are well prepared for these challenges, we provide a technology-rich environment.

Among these resources are media tools, including net books, iPads, Smart Boards and Artificial Intelligence Laboratories. 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.

THE ROLE OF PARENTS

The Center for Gifted Youth is acutely aware of the role parents take in the success of their children. To help parents with this task, a number of services are offered. Parents may enroll in a variety of workshops scheduled to run concurrently with their child’s classes. The Center for Gifted Youth has a psychologist on staff who leads the workshops designed to allow an exchange of information and perceptions about the responsibilities, challenges, and joys of raising gifted children. Past meetings have included such topics as the social and emotional factors of being gifted, school challenges, sibling rivalry, and enrichment alternatives. Participation in all workshops and meetings is voluntary and provided at no extra fee. The psychologist is also available to meet parents on an individual basis to discuss specific concerns. Classroom observations by the psychologist and input from the instructional staff are useful parts of this process.
GIFTED PARENT NETWORK

The mission of the Gifted Parent Network is to facilitate a social and informational network for families participating in programs at the Center for Gifted Youth. The goals include encouraging social interactions between families and providing a forum for sharing experiences and challenges.

BACKGROUND INFORMATION

The Long Island University Center for Gifted Youth (LIUCGY) offers its program at the LIU Post campus on Saturday mornings each fall and spring. Classes commence at 9:00 a.m. and conclude at 11:55 a.m. Classes in the kindergarten through grade one level remain together throughout the morning.

Beginning in second grade, students select three courses offered at their level in the appropriate time frame. The curriculum involves children in interdisciplinary approaches to the physical and life sciences, mathematical problem solving, computers and the Humanities. Parents are invited to participate in special parent group discussions led by staff psychologists.

ADMISSION

The Center admits children who have shown evidence of academic and intellectual promise. While guidelines are not fixed, gifted children are usually identified by high scores on standardized I.Q. tests, superior school performance, and strong personal interests. Students accepted into the program in past semesters have usually shared most or all of the following characteristics: scores of 130 or higher on I.Q. tests, high scores on achievement tests, and exceptional school performance (pupils in grades 4 through 8 are generally working a minimum of two years above grade level).

APPLICATION PROCEDURES

New students are accepted into the Center for Gifted Youth throughout the year for entry the following semester. Applications on behalf of students may be made directly by parents, as well as by elementary and middle schools. Appropriate forms are provided following this page.

Because of the limited number of openings for new students, as well as the time it takes to review applications, parents are urged to apply as soon as possible before the start of a new term. Applications are accepted on a rolling basis, therefore there is no deadline.

Applications will be reviewed by the admissions committee when all of the following materials have been received:
APPLICATION PROCESS

New applicants should complete the following forms:

FORM 1: ENTRANCE APPLICATION
A completed application form (to be filled out by the child’s parent or legal guardian).

FORM 2: SCHOOL RECOMMENDATION
A recommendation by the principal or guidance counselor of the applicant’s school including the results of standardized intelligence and achievement tests. Parents must notify schools of their permission to release these scores.

FORM 3: TEACHER RECOMMENDATION
A recommendation by the applicant’s teacher or appropriate school guidance counselor. We require a brief narrative focusing on the child’s social and emotional maturity, as well as the child’s classroom performance.

FORM 4: APPLICATION PAYMENT FORM
A non-refundable $30 application fee must be submitted with the application. Checks should be made out to “LONG ISLAND UNIVERSITY” and include the applicant’s name at the bottom.

FORMS 1, 2, 3 and 4 should be mailed directly to the Center’s office:
LIU Center for Gifted Youth | LIU Post
720 Northern Boulevard
Brookville, NY 11548-1300

Parents will be notified by mail or email as to whether their child has been accepted into the program. If accepted, registration materials will follow. Parents of accepted students need not re-apply for admission to the Center for subsequent semesters.

EMERGENCY CLOSING PROCEDURES
The Center for Gifted Youth operates under the auspices of LIU Post. Therefore, the Center is not responsible for program closing due to inclement weather or other university emergencies. Emergency information will be posted at www.liu.edu/post.
INSTRUCTIONS TO THE PARENT:
This questionnaire should be filled out promptly and returned to the Center with the required $30 non-refundable application fee. Checks should be made out to “Long Island University.”

Two recommendation forms are enclosed; one is for the school principal and one for a recent teacher or guidance counselor. Once completed, these forms are to be forwarded directly to the Center for Gifted Youth office. Candidates should provide the school with a stamped envelope addressed to the above.

PLEASE NOTE: THIS IS NOT A REGISTRATION FORM. This application form is for entrance into the program. If your child is accepted, a separate registration form will be mailed or emailed to you along with an acceptance letter. Students who have already been accepted need not reapply.

APPLICATION FORM
(PLEASE PRINT CLEARLY)

<table>
<thead>
<tr>
<th>NAME</th>
<th>(LAST)</th>
<th>(FIRST)</th>
<th>(MIDDLE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEX</td>
<td>DATE OF BIRTH</td>
<td>PRESENT GRADE</td>
<td></td>
</tr>
</tbody>
</table>

ADDRESS OF CANDIDATE

<table>
<thead>
<tr>
<th>STREET</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CITY</td>
<td>STATE</td>
</tr>
</tbody>
</table>

HOME PHONE NUMBER (including area code)

FATHER’S CELL PHONE (including area code)

MOTHER’S CELL PHONE (including area code)

FATHER’S BUSINESS PHONE (including area code)

MOTHER’S BUSINESS PHONE (including area code)

EMAIL ADDRESS

RETURN TO:
Long Island University
Center for Gifted Youth
LIU Post
720 Northern Boulevard
Brookville, New York 11548-1300

PLEASE CHECK
___ Spring Saturday Program 2021
___ Summer Program 2021
___ Fall Saturday Program 2021
NAMES AND OCCUPATIONS OF PARENTS
(please include last name if different from candidate)

FATHER __________________________ OCCUPATION ______________________

MOTHER __________________________ OCCUPATION ______________________

How did you learn about this program? (If website, please specify name.)
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

Does your child have any unique interests or abilities? (If yes, please explain)
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

Have you applied for this child before? __________________

NAME OF PRESENT SCHOOL
______________________________________________________________________________

ADDRESS (STREET) ____________________________________________________________

CITY ____________________________ STATE ____________ ZIP ____________

SCHOOL TELEPHONE NUMBER (including area code) ______________________________

SIBLINGS IN THE PROGRAM (if any) ____________________________________________
______________________________________________________________________________
______________________________________________________________________________

DATE __________________________ SIGNATURE OF PARENT OR GUARDIAN
This form should be filled out by the principal of the child’s present school, and the completed form should be mailed by him or her directly to the Center in a stamped, addressed envelope provided by the parent. Please attach a copy of the candidate’s latest report card to this form.

(PLEASE PRINT)

CANDIDATE’S NAME ____________________________________________
(LAST) (FIRST) (MIDDLE)

CANDIDATE’S ADDRESS __________________________________________

CANDIDATE’S PHONE NUMBER ____________________________________

This candidate has been a student of the __________________________ School,
laid at ________________________________________________________
(STREET ADDRESS) (CITY) (STATE) (ZIP)

from ___________________________________ to ________________________

Grade level as of Sept. 2020 __________

School Telephone Number ________________________________________

This is a program for gifted children. As the name implies, it is for children with noticeable academic and intellectual promise. While guidelines are not fixed, gifted children are usually identified by high scores on standardized I.Q. tests, strong personal interests, and superior school performance. Students accepted into the program in past semesters have usually shared most or all of the following characteristics: scores of 130 or more on I.Q. tests, high scores on achievement tests, and exceptional school performance (e.g., pupils in grades 4 and higher are generally working a minimum of two years above grade level). As we do not wish to place a child in a group in which he/she cannot cope, we welcome your comments.
### TEST RESULTS

#### INTELLIGENCE:

<table>
<thead>
<tr>
<th>INDIVIDUAL TESTS</th>
<th>Test Date</th>
<th>Scores</th>
</tr>
</thead>
<tbody>
<tr>
<td>WISC-V</td>
<td></td>
<td>VCI VSI FRI WMI PSI FSIQ</td>
</tr>
<tr>
<td>WPPSI-IV</td>
<td></td>
<td>VCI VSI FRI WMI PSI FSIQ</td>
</tr>
<tr>
<td>Stanford-Binet V</td>
<td></td>
<td>FR KN QR VS WM FS</td>
</tr>
<tr>
<td>Stanford-Binet IV</td>
<td></td>
<td>VR AVR QR STM COMP</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>GROUP TESTS</th>
<th>Test Date</th>
<th>Scores</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cognitive Abilities Test</td>
<td></td>
<td>V Q NV Total</td>
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<tr>
<td>(COGAT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Otis-Lennon</td>
<td></td>
<td>V NV Total</td>
</tr>
<tr>
<td>Other (Name)</td>
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</tbody>
</table>

**Note:** We do not accept brief or abbreviated assessment measures, e.g., VKT, Slosson, WASI, etc.

#### ACHIEVEMENT - MATHEMATICS:

<table>
<thead>
<tr>
<th>NATIONAL</th>
<th>LOCAL</th>
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</thead>
<tbody>
<tr>
<td>Test</td>
<td>%</td>
</tr>
<tr>
<td>Iowa Test of Basic Skills</td>
<td>N/A</td>
</tr>
<tr>
<td>NYS Math (Grade 4)</td>
<td>N/A</td>
</tr>
<tr>
<td>Terra Nova</td>
<td>N/A</td>
</tr>
<tr>
<td>TONYSS</td>
<td>N/A</td>
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<tr>
<td>Other (Name)</td>
<td>N/A</td>
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</tbody>
</table>

#### ACHIEVEMENT - READING:

<table>
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<tr>
<th>NATIONAL</th>
<th>LOCAL</th>
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<tbody>
<tr>
<td>Test</td>
<td>%</td>
</tr>
<tr>
<td>Iowa Test of Basic Skills</td>
<td>N/A</td>
</tr>
<tr>
<td>ELA (Grade 4)</td>
<td>N/A</td>
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<tr>
<td>Terra Nova</td>
<td>N/A</td>
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<tr>
<td>TONYSS</td>
<td>N/A</td>
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<tr>
<td>Other (Name)</td>
<td>N/A</td>
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</tbody>
</table>

**Personal Evaluation**

1. Student is _______________ is not _______________ mature and well adjusted.

2. As a student (circle one) Outstanding Above Average Average

Additional Comments: __________________________________________________________

_________________________________________ Signature ____________________________

Date______________________________________Signature ____________________________

Print Name ________________________________Title ______________________________


Both sides of this form are to be completed by a recent teacher or guidance counselor who knows the candidate well. Please return directly to the Center in a stamped envelope provided by the parent.

(PLEASE PRINT)

CANDIDATE’S NAME

_________________________________ (LAST) (FIRST) (MIDDLE) ______________________________________

CANDIDATE’S ADDRESS

__________________________________________________________

CANDIDATE’S PHONE NUMBER

__________________________________________________________

Please rate the candidate in the categories listed below.
Categories that are rated “deficient” by the teacher should be accompanied by a brief explanation on the reverse side of this page.

<table>
<thead>
<tr>
<th>Category</th>
<th>Outstanding</th>
<th>High</th>
<th>Average</th>
<th>Below</th>
<th>Average</th>
<th>Deficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Prefers complex ideas</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>2. Asks penetrating questions</td>
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<td>3. Vocabulary</td>
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<td>4. Originality</td>
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<tr>
<td>5. Curiosity</td>
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<tr>
<td>6. Motivation to learn</td>
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<td>7. Initiative</td>
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<td>8. Commitment to excellence</td>
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<tr>
<td>9. Enthusiasm</td>
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<tr>
<td>10. Sense of humor</td>
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<tr>
<td>11. Attention span</td>
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<tr>
<td>12. Perseverance &amp; industry</td>
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<tr>
<td>13. Emotional stability</td>
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<tr>
<td>14. Social maturity</td>
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<tr>
<td>15. Frustration tolerance</td>
<td></td>
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</tbody>
</table>
This is a program for gifted children with noticeable academic and intellectual promise. While guidelines are not fixed, gifted children are usually identified by high scores on standardized I.Q. tests, strong personal interests and superior school performance. Students accepted into the program in past semesters have usually shared most or all of the following characteristics: scores of 130 or more on I.Q. tests, high scores on achievement tests, and exceptional school performance (e.g., pupils in grades 4 and higher are generally working a minimum of two years above grade level).

For all applicants, we require a brief narrative emphasizing the child’s social and emotional maturity, as well as an indication of the child’s math and reading levels.

As we do not wish to place a child in a group in which she/he cannot cope, we welcome your comments.

Reading Level:

Math Level:

Social and Emotional Maturity:

Additional Comments:

Candidate was in my class in ___________ grade.

During the 20___ - 20___ School Year

Signature __________________________ Date __________

Title _________________________________

School Address _________________________

School Telephone Number ____________________
APPLICATION PAYMENT FORM

Method of Payment

_____ Check or money order payable to LONG ISLAND UNIVERSITY
_____ Discover Card
_____ MasterCard
_____ Visa

__________________________________________________________________________________

CARD HOLDER’S NAME (as it appears on the credit card)

CREDIT CARD NUMBER

CVV (Last 3 Digits on the back of the card)  EXPIRATION DATE  AMOUNT TO BE CHARGED

Please make checks payable to the Long Island University. Include child’s full name at the bottom of check. If you are paying by credit card, please mail this form to the address below. If you have any questions please call 516-299-2580.

MAIL PAYMENT TO:
Center for Gifted Youth
LIU Post
720 Northern Boulevard
Brookville, New York 11548-1300

_____ I have enclosed a non-refundable application fee of $30.

My signature below denotes that I have read and I am aware of the LIUCGY registration and refund policies.
Once a child is accepted into the Center for Gifted Youth, parents will receive additional registration materials, as well as other information concerning tuition payment and schedules. Registration is separate for each semester and is based on a first-come, first-served basis. Enrollment in our classes is limited in order to maximize learning opportunities for each student. As soon as a course is filled, it will be closed. We cannot guarantee placement. In order to avoid disappointment, it is advisable to register early. We ask you to consider simultaneous enrollment for both the fall and spring semesters. We believe that this will improve the benefits of the program by providing continuity in friendships among students. It will also enable us to plan in advance for the needs of individual students.

Students are the guests of LIU Post while participating in the gifted youth program and are expected to act appropriately. Misconduct may result in removal from the program.

**TUITION FOR ACCEPTED STUDENTS**

Full tuition for the Saturday program is $1,885 for each 10-week semester, plus a $35 lab fee per science class. Full tuition and science fees are due before the first day of class as well as an application fee for first time students.

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 LIU Center for Gifted Youth handles all deposits, tuition and fees. If we are unable to place your child because classes are full, the deposit and other tuition and fees will not be charged.*

**REFUND POLICY**

- The only circumstance in which the tuition 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.
• Under no circumstances will tuition payments be applied to another student.

LABORATORY FEES

A laboratory fee of $35 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, Amex or Discover). Please email us at giftedyouth@liu.edu or call the office at 516-299-2580 for this form.

Please note: Should LIU need to shift from onsite programming to an online format, no credits or refunds will be given toward future semesters.

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:

Center for Gifted Youth
Long Island University
720 Northern Boulevard
Brookville, NY 11548-1300

GUIDELINES

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

We encourage all grade 2-8 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 for 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. Email giftedyouth@liu.edu for this form or call 516-299-2580.
CALENDAR
SPRING SEMESTER 2021
February 13 - May 8, 2021
9:00 A.M. - 11:55 A.M.

K-1 SATURDAY EXPRESS:
SCIENCE, MATHEMATICS, AND HUMANITIES
The Saturday Express is a program of exploration and discovery in science, mathematics, and Humanities. Students will be exposed to challenging ideas and concepts rarely introduced or explored in Kindergarten and Grade 1. They will be provided with hands-on learning experiences by expert instructors in mathematics, science, and the Humanities, appropriate to gifted children.

GRADES 2-3
SPRING
· Physical Computing Using the Micro:bit*
· The Robot Age*
· Investigations in Physical Science*
· Journey Through Art
· Discover Ancient Egypt
· Superheroes in Literature and Comic Book Design (Beginner)
· Math: Brain Games

GRADES 4-5
SPRING
· Innovative Chemistry*
· Genetics and Inheritance*
· Superheroes in Literature and Comic Book Design (Intermediate)
· Down From Olympus: Drama in Mythology
· Web Design*
· Rocketry and Airplane Design*
· Stock Market, I’ll Buy That!
· Advanced Math Brain Games

GRADES 6-8
SPRING
· Marine Biology*
· Chemistry Applications*
· Design for Competitions*
· Algebraic Expressions and Equations
· Video Game Design*
· Advanced Rocketry*
· Art and Artists: Beyond the Stroke of Genius (Advanced)

*Indicates Science Fee ($35)
| KINDERGARTEN - GRADE 1 | 9:00 – 11:55 a.m. | Saturday Express:  
· Science*, Mathematics, Humanities |

| GRADES 2–3 |  |  |
| Period 1 | 9:00 – 9:55 a.m. | · Math Brain Games  
· Investigations in Physical Science*  
· Discover Ancient Egypt |
| Period 2 | 10:00 – 10:55 a.m. | · Investigations in Physical Science*  
· Physical Computing Using Micro:bit*  
· Journey Through Art |
| Period 3 | 11:00 – 11:55 a.m. | · Math Brain Games  
· The Robot Age*  
· Superheroes in Literature and Comic Book Design (Beginner) |

| GRADES 4–5 |  |  |
| Period 1 | 9:00 – 9:55 a.m. | · Innovative Chemistry*  
· Rocketry and Airplane Design*  
· Web Design*  
· Advanced Math Brain Games |
| Period 2 | 10:00 – 10:55 a.m. | · Down From Olympus: Drama in Mythology  
· Superheroes in Literature and Comic Book Design (Intermediate)  
· Stock Market, I’ll Buy That!  
· Genetics and Inheritance* |
| Period 3 | 11:00 – 11:55 a.m. | · Advanced Math Brain Games  
· Rocketry and Airplane Design*  
· Down From Olympus: Drama in Mythology  
· Innovative Chemistry* |

| GRADES 6–8 |  |  |
| Period 1 | 9:00 – 9:55 a.m. | · Marine Biology*  
· Art and Artists: Beyond the Stroke of Genius (Advanced)  
· Design for Competitions* |
| Period 2 | 10:00 – 10:55 a.m. | · Algebraic Expressions and Equations  
· Chemistry Applications*  
· Advanced Rocketry* |
| Period 3 | 11:00 – 11:55 a.m. | · Marine Biology*  
· Video Game Design*  
· Art and Artists: Beyond the Stroke of Genius (Advanced) |

*Indicates Science Fee ($35)
SATURDAY COURSE DESCRIPTIONS

Please note that different topics are explored each semester (fall, spring, and summer), even though the course titles and academic areas may be similar.

SATURDAY EXPRESS: GRADES K-1 SCIENCE, MATHEMATICS, HUMANITIES

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 field 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 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.

**Courses subject to change**
Students in grades 2-3 will choose three courses from those listed below.

**SCIENCE**

**PHYSICAL COMPUTING USING MICRO:BIT**
In this new course, we introduce students to Physical Computing using the Micro:bit. Students will have the opportunity to apply knowledge of basic programming concepts (control structures, variables, functions, etc.) to a physical device. They will learn how to perform basic physical tasks using LEDs, buttons, and basic sensors by building circuits. No coding experience is needed, and all skill levels are encouraged.

**THE ROBOT AGE**
This course is designed to introduce students to the “Age of Robots,” helping them understand how robots of the 21st century may change the way people live. Robots come in many shapes and sizes and have the potential to perform different tasks. Students will have an opportunity to pretend they are robotic engineers and design blueprints for robots of the future.

**INVESTIGATIONS IN PHYSICAL SCIENCE**
This course is designed to provide a variety of learning experiences that will introduce students to the basic concepts of chemistry and physics. Students will investigate such topics as air pressure, buoyancy, gravity, density of matter, temperature, heat, chemical reactions, and electromagnetism. Activities will stress the development of skills and understandings related to the physical sciences. New ideas are presented each semester. There are no prerequisites for this course.

**HUMANITIES**

**JOURNEY THROUGH ART**
Move beyond the surface to journey with famous artists into the realm of human imagination and creativity. Students will experience art history from medieval times to the world of Impressionism in an exciting and innovative hands-on manner. Students will produce their own original artwork in the styles of Da Vinci, Michelangelo, Raphael, Rembrandt, Monet, Degas, Seurat, and others.
DISCOVER ANCIENT EGYPT
Join us on an adventure to Ancient Egypt. This is an interactive course that allows students to learn the wonders of a fascinating ancient civilization that has impacted our current world. We will travel north up the Nile River, build a pyramid, study the Pharaohs, engage in a mummification, discover Egyptian gods, uncover fun facts and more. In addition, students will ask and answer questions about the seven wonders of Ancient Egypt.

SUPERHEROES IN LITERATURE AND COMIC BOOK DESIGN (BEGINNER)
Discover the attributes of famous superheroes in literature and analyze those traits in popular, classic comic books. Students will create their own superhero and engage in the writing process, design, layout, and production of their own original comic strip to comic book.

MATHEMATICS
MATH BRAIN GAMES
This is an activity based course designed to prepare students to experience solving various types of mathematical puzzles. The puzzles will provide students with an opportunity to improve their deductive reasoning and critical thinking skills. Activities will be designed to meet the needs, interests, and ability levels of each participant. Puzzles will include block patterns, numbers and sequence, logic and tangrams.

*Science fees apply*

GRADES 4-5
Students in grades 4-5 will choose three courses from those listed below.

SCIENCE
INNOVATIVE CHEMISTRY*
Have you ever wanted to create chemiluminescent chemical reactions in the laboratory? Students will have an opportunity to participate in this exploratory activity as well as others, and delve into topics such as acids and bases, chemical and physical properties of matter, the periodic table, ionic and covalent bonding and qualitative analysis.

GENETICS AND INHERITANCE*
This course will take students on a journey deep inside the cell to study the structures that control its makeup. Students will study the discoveries of Gregor Mendel, James Watson, and Francis Crick. Topics to be covered are basic Mendelism, inherited traits, structure of DNA, RNA, transcription, translation, genetic disease, mutation, and evolution.
HUMANITIES

SUPERHEROES IN LITERATURE AND COMIC BOOK DESIGN (INTERMEDIATE)

Discover the attributes of famous superheroes in literature and analyze those traits in popular, classic comic books. Students will create their own superhero and engage in the writing process, design, layout, and production of their own original comic strip or comic book.

DOWN FROM OLYMPUS: DRAMA IN MYTHOLOGY

How does classical mythology continue to inspire modern fantasy and adventure stories? We will first learn the legends of such gods as Zeus, Poseidon, and Hades, as portrayed in Rick Riordan’s celebrated The Lightning Thief. Students will also be introduced to the Bullfinch Anthology of such classics as “Juno and her Rivals,” “The Trojan War,” and “Medea.” They will consider how Greek mythology continues to inform literature and psychology, and will dramatize these myths in stories, plays, and poems within a contemporary setting.

MATHEMATICS AND COMPUTERS

WEB DESIGN*

Web pages make the Internet go around and allow us to share ideas and information. This class is a blend of instruction and projects teaching two coding languages, HTML and CSS. The course invites students to create their own live multi-page website and then embellish them as the term unfolds. No prior experience is needed, and the class welcomes all coding skill levels.

ROCKETRY AND AIRPLANE DESIGN*

Students will investigate the evolution of rocket and airplane design from the first Chinese fireworks, to the Boeing 777, to the space shuttle. After investigating the principles of flight, students will design, build, and launch model rockets and airplanes. Students with experience will work on more advanced models. This hands-on program stresses theory, design, construction, and the importance of teamwork in building and launching rockets. Safety procedures will be stressed throughout the program.

STOCK MARKET, I’LL BUY THAT!

Students will engage in a study of the fascinating world of the stock market and investing in this interactive hands-on course. To better understand these timely and important economic trends, students will be introduced to influential entrepreneurs who have transformed the business world, the historical development of the stock market, and the complex issues that face investors today.

Woven into the fabric of the course will be a stock market simulation that will allow students to follow their chosen stocks in a real time stock market competition. Students will be guided in their investigation of possible investment opportunities, as well as when to invest in the stock market.
ADVANCED MATH BRAIN GAMES
This course is designed to give each student learning experiences that are challenging and fun-filled. While solving brain teasers and playing brain games, students will learn to organize sets of clues (some direct, some indirect) and reach logical conclusions by using pure deductive reasoning.

*Science fees apply*

GRADES 6-8
Students in grades 6-8 will choose three courses from those listed below.

SCIENCE

MARINE BIOLOGY*
Marine Biology is the study of life in the oceans and other saltwater environments. The oceans cover over seventy percent of our world, there is much to discover. Through observation, hypothesis building and experimentation, this course delves into the study of ocean health known as environmental marine biology, the ecology of fisheries, and research on the development of individual organisms and their environment called aquaculture. Included in the course will be a broad study of ichthyology and marine mammalogy.

CHEMISTRY APPLICATIONS*
Students will explore and carry out advanced chemistry experiments. Students will understand scientific concepts pertaining to chemistry, stoichiometry, kinetic, and atomic concepts will be explored allowing students to develop a cognitive understanding of important topics in chemistry.

DESIGN FOR COMPETITIONS*
Are you ready to create? Design for Competitions is a new course designed to engage students in open-minded activities. Students will design transportation devices and systems that meet specific design criteria. These experiences will allow students to design gliders, a working roller coaster and even a functional Rube Goldberg machine. Students will gain valuable designing experiences while having fun competing in multiple in class competitions.
HUMANITIES

ART AND ARTISTS: BEYOND THE STROKE OF GENIUS (ADVANCED)

Experience the wonder of Vincent Van Gogh’s *Starry Night*, the playfulness of Monet’s beach scenes, the intriguing contrasts of Seurat’s *Sunday Afternoon on the Island of La Grande Jatte*, the mysteries of Picasso’s Blue Period, and many other astonishing works of art from the 1900s to today. Students will explore the life and work of some of the greatest artists of the past two centuries. After careful exploration of these artists and their work, students with complete their own works of arts inspired by the style and technique of each unique period of history. Additional projects may be substituted.

MATHEMATICS AND COMPUTERS

ALGEBRAIC EXPRESSIONS AND EQUATIONS

This new mathematics course will apply and extend previous understanding of arithmetic to algebraic expressions. Students will solve one variable expressions and inequalities and represent and analyze quantitative relationships between dependent and independent variables. They will use properties of operations to generate equivalent expressions in order to solve real-life mathematical problems. Students will work with radicals and integer exponents and understand connections between proportional relationships, lines and linear equations. Finally, they will explore linear functions.

VIDEO GAME DESIGN*

Students learn how to create video games in JavaScript. The foundations of computer science and basic programming will be covered so all coding skill levels are welcome. This course will help the students develop logical thinking and problem solving skills while creating their own version of popular video games such as Breakout, Snake, Tic Tac Toe, and Connect Four!

ADVANCED ROCKETRY*

This course will be a study of the exploration of space, including aerodynamic principles, and rocket propulsion. Students will build and launch multistage rockets and use triangulation techniques to ascertain altitudes. Experienced rocketeers will be given more advanced projects and will discuss and develop selective aspects of projectile motion. Safety procedures and rules will be stressed throughout the program.

*Science fees apply*
ABOUT THE LONG ISLAND UNIVERSITY (LIU)

LIU, founded in 1926, continues to redefine higher education, providing high quality academic instruction by a world-class faculty. Recognized by Forbes for its emphasis on experiential learning and by the Brookings Institution for its “value added” approach to student outcomes, LIU offers nearly 400 accredited programs, with a network of 265,000 alumni that includes industry leaders and entrepreneurs across the globe. Visit liu.edu for more information.

ABOUT THE LIU SCHOOL OF PROFESSIONAL STUDIES

Long Island University has a rich legacy of achievement in delivering accessible learning to a diverse and multi-generational community. In the LIU School of Professional Studies, our learning population consists of students of all ages with a wide range of interests and passions. Courses, lectures and special events engage the young and the young-at-heart with lifelong learning opportunities spread across a wide range of disciplines and social and cultural areas. The Center for Gifted Youth, Hutton House Lectures, Theodore Roosevelt Institute, and Fundraising Academy are among the School’s innovative and interactive programs.
SPRING PROGRAM
FEBRUARY 13 - MAY 8, 2021