

Courses for academically talented students in PreK through grade 9

Spring 2012

APRIL 14–MAY 19

# Saturday Enrichment Program & Accelerated Weekend Experience



## LOCATIONS:

- Evanston
- Chicago
- Naperville
- Palatine

## NEW!

- **Creative Studies Courses**
- **Morning AND Afternoon Classes**  
Now at ALL locations



[www.ctd.northwestern.edu/sep](http://www.ctd.northwestern.edu/sep)

# Northwestern University Center for Talent Development

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## WHEN AND WHERE

### SATURDAY ENRICHMENT PROGRAM

Spring 2012 – April 14 – May 19

A.M. Classes: 9 a.m.–11:30 a.m.

P.M. Classes: 12 noon–2:30 p.m.

### MORNING AND AFTERNOON CLASSES

**Evanston, Illinois 60208**

Northwestern University Campus

**Chicago, Illinois 60654**

The Frances Xavier Warde School,  
Holy Name Campus, 751 N. State St.

**Palatine, Illinois 60067**

Quest Academy, 500 N. Benton

**Naperville, Illinois 60540**

North Central College, 31 N. Loomis

### ACCELERATED WEEKEND EXPERIENCE (AWE)

9 a.m.–2:30 p.m. Saturday–Sunday

Sites and dates vary. Check website for  
current schedule:

[www.ctd.northwestern.edu/sep/  
program/awe/dates-locations](http://www.ctd.northwestern.edu/sep/program/awe/dates-locations)

# Welcome to Saturday

## PHILOSOPHY STATEMENT

The Saturday Enrichment Program is designed to challenge academically talented children. Classes enable gifted students to explore topics in greater depth than is common in traditional school settings. Students develop higher

order and creative thinking skills in the company of their intellectual peers. Courses for young children emphasize discovery-based learning. Older students engage in problem-based and inquiry approaches.



## National Association for Gifted Children (NAGC)

The National Association for Gifted Children (NAGC) is an organization of parents, teachers, educators, other professionals and community leaders who unite to address the unique needs of children and youth with demonstrated gifts and talents as well as those children who may be able to develop their talent potential with appropriate educational experiences. Visit [www.nacg.org](http://www.nacg.org) to join this organization and add your name to the ranks of supporters working to raise awareness of the needs of gifted learners nationwide. In an age of accountability, states and schools are demanding growth for all children, which should include yearly growth for gifted students.



Center for Talent Development has been accredited as a nonpublic supplementary school by the North Central Association Commission on Accreditation and School Improvement (NCA CASI) since April 1, 1994. NCA CASI is recognized by the U.S. Department of Education and has more than 100 years of experience in improving educational quality.

## CONTACT INFORMATION

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## FOLLOW US

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twitter [twitter@CTDatNU](https://twitter.com/CTDatNU)


Applications and other forms are available on the website. Click on Downloads in the left-margin menu.

# Enrichment Program Spring 2012

Spring! The season of renewal, awakening and fresh energy.

Those invigorating elements characterize the spring session of Northwestern University Center for Talent Development's **Saturday Enrichment Program**.

Creativity blossoms at this time of year. Our spring roster includes several offerings in the popular Creative Studies series. Courses are designed to promote innovation and encourage bright young minds to explore new concepts and solutions. Kids don't have to be artists, writers or musicians to enjoy and benefit from these classes. They just need the desire to think like one.

We've got Creative Studies courses for nearly every grade level. You can track them in this catalog by following our creativity "icon." 

The spring session of the Saturday Enrichment Program begins April 14, 2012 and runs for six consecutive weeks through May 19. Gifted students from PreK through Grade 9 will find an array of enticing subject matters including Purposeful Probability, WeDo™ Robotics, Latin I and II, Persuasion & Debate Honors and a whole lot more.

Courses are offered in four convenient locations: Evanston, Chicago, Palatine and Naperville. We've expanded to offer both morning and afternoon classes at all sites.

If your child is new to the Saturday Enrichment Program, consider these benefits:

- Interact with intellectual peers.
- Pursue a subject of interest in depth at levels not reached in most mainstream classrooms.
- Enjoy hands-on experimentation that develops both critical and creative thinking skills.

For older students with busy schedules that rule out a six-week commitment, we offer the **Accelerated Weekend Experience (AWE)**. Kids in grades 5–8 explore fascinating topics over the span of a single weekend.

Your child can celebrate spring and enrich the weekends with one or more challenging, lively and fun-filled Saturday courses.



Paula Olszewski-Kubilius, PhD  
*Director, Center for Talent Development*  
*Northwestern University, Evanston, Illinois*



# CREATIVE STUDIES

## COURSES IN CREATIVE STUDIES

The Center for Talent Development's new Creative Studies program provides gifted students with opportunities to explore and understand the role of creative expression in information transfer. In this media saturated world, Creative Studies courses cultivate the critical thinking, innovation and media skills that are essential for success in our contemporary lives.

Our Creative Studies experiments provide early opportunities to explore the intellectual challenges of the open-ended question. Students frame problems and develop goals through discussion and trial and error. The approach nurtures self-sufficiency and a sense of creative authorship. Many problems in the adult world involve these sorts of challenges. Students who love to draw, build or design, begin to see the connection between their interests and the making of visual culture. Our gifted children are the innovators of their generation. Creative Studies courses lay the groundwork for using visual language as part of their innovation toolkit.

### The Art & Science of Color Grades K-1

How does color work? Through hands-on science experiments and arts activities, young learners explore the electromagnetic spectrum, natural and man-made pigments and more. By looking at the work of both artists and scientists, participants investigate the construction of visual phenomena, from remote sensing to watercolors.

*Subject Area: Creative Studies & Science*

*Qualifying Score: Reading or Math*

Sites: EV (a.m.), NP (a.m.) & PA (a.m.)

Course #: 03

*"Academically stimulating."*

— Saturday Enrichment Program parent

### Our Musical World Grades 2-3

In this interactive music course, students study relationships between music, culture, science and mathematics. How does sound travel? How do we understand patterns in music? How do we compose new music of our own? Participants experiment with traditional instruments, explore digital ones and use listening labs to increase their understanding of this timeless art form.

*Subject Area: Creative Studies & Math*

*Qualifying Score: Reading or Math*

Sites: EV (a.m.) & CH (a.m.)

Course #: 10

### Math, Physics & Sculpture Grades 4-5

3D spatial awareness, essential in engineering and design, is cultivated through building. In weekly sculpture experiments, students build musical 'instruments' and kinetic sculpture. Participants explore materials, joints and the harnessing of natural energy (solar and wind) to 'drive' constructions, as well as study form and

meaning. This course includes virtual visits to see sculpture by artists who build exhibits for national and international science museums.

*Subject Area: Creative Studies & Math*

*Qualifying Score: Reading or Math*

Site: EV (p.m.)

Course #: 47

### Introduction to Cartoon Grades 6-8 Storytelling

This course helps students communicate their ideas effectively and develop personal expression through story and characters. Using writing and drawing, students express their stories in comic strip, comic book, illustration and storyboard formats. Learn how to become a great observer of interaction and the characters who inhabit your everyday life.

*Subject Areas: Creative Studies & English & Writing*

*Qualifying Score: Reading or Math*

Site: EV (a.m.)

Course #: 28



EV = Evanston; NP = Naperville; PA = Palatine; CH = Chicago

A.M. Classes: 9 a.m.–11:30 a.m.; P.M. Classes: 12 noon–2:30 p.m.

 = Creative Studies Course

# SATURDAY ENRICHMENT PROGRAM COURSES — SPRING 2012

*“We hope our daughter will have a teacher like her SEP instructor in her kindergarten starting next year.”*

— Saturday Enrichment Program parent



## GRADES PREK–K

### **Ocean Adventures** *Grades PreK-K*

Did you know that 75% of the Earth’s surface is water? Young oceanographers learn about ocean currents, winds and the organisms that live in and on the water. Through engaging activities, students discover the science of the oceans, plate tectonics, hydrothermal vents and the Pangaea theory. This course is ideal for students who are drawn to the wonders of the seas.

*Subject Area: Interdisciplinary*

*Qualifying Score: Reading or Math*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 01 (a.m.) & 33 (p.m.)

### **Purposeful Probability** *Grades PreK-K*

Everyone likes to play guessing games. This class introduces probability, a mathematical way of deciding which guess is the best guess. Through repeated trials, games and experiments, students are introduced to the idea that certain results are mathematically more likely to occur than others. Activities promote systematic thinking and plant the seeds for basic math logic.

*Subject Area: Math*

*Qualifying Score: Math*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m.) & CH (a.m.)

Course #: 02 (a.m.) & 34 (p.m.)

## GRADES K–1

### **The Art & Science of Color** *Grades K-1*

How does color work? Through hands-on science experiments and arts activities, young learners explore the electromagnetic spectrum, natural and man-made pigments and more. By looking at the work of both artists and scientists, participants investigate the construction of visual phenomena, from remote sensing to watercolors.

*Subject Area: Creative Studies & Science*

*Qualifying Score: Reading or Math*

Sites: EV (a.m.), NP (a.m.) & PA (a.m.)

Course #: 03

### **Math on the Move** *Grades K-1*

Participants travel through time and space learning about different types of number systems used by ancient civilizations and how they affect us today. From the Egyptian additive systems to the abacus and Chinese counting rods, students explore mathematical achievements from many different cultures. This course introduces ancient concepts that remain the basis for advanced levels of modern mathematics.

*Subject Area: Math*

*Qualifying Score: Math*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 04 (a.m.) & 35 (p.m.)

### **Amazing Animals** *Grades K-1*

Who is interested in learning remarkable and amazing information about animals? Budding zoologists look at the similarities and differences between household pets and exotic creatures that inhabit the wild. Students learn about animal survival traits and techniques, explore their habitats and come to understand the cooperation and competition that exists among animal families around the world. This is a wonderful beginning to future studies in zoology or for anyone who loves animals.

*Subject Area: Science*

*Qualifying Score: Reading or Math*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m.) & CH (a.m.)

Course #: 05 (a.m.) & 36 (p.m.)

### **Heroes & Villains** *Grades K-1*

If conflict is the key to a great story, then this class is right on the mark! Join us to explore conflict and character using the written word. Students delve into the ideas of character, vocabulary, audience and perspective in this course designed to fuel creative imagination. What are some common characteristics of a villain? Why does a hero not always seem heroic? Once these and other commonalities are explored, students create original literary works.

*Subject Area: English & Writing*

*Qualifying Score: Reading*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 06 (a.m.) & 37 (p.m.)

 = Creative Studies Course

# SATURDAY ENRICHMENT PROGRAM COURSES — SPRING 2012

## GRADES 1–2

**Mathematically Ever After** *Grades 1-2*  
“Happily ever after” is much more than a good ending to a story. Students build their problem-solving skills in the context of fairy tales. Learning new techniques, participants acquire the understanding needed to solve problems and equations as they progress in the world of mathematics.

*Subject Area: Math*

*Qualifying Score: Math*

Sites: EV (a.m.) & NP (a.m.)

Course #: 07

### **Simple Machines: An Introduction to Engineering** *Grades 1-2*

Simple machines are examined and constructed in this course, that lays a foundation for the young, engineering mind. Students discover the cause and effect of structural design using wheels and axles, wedges, pulleys, screws, inclined planes and levers in this hands-on class!

*Subject Area: Science*

*Qualifying Score: Reading or Math*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 08 (a.m.) & 38 (p.m.)

### **Books That Inspire Creativity** *Grades 1-2*

Many children who love books also love arts and crafts. In this class, students enjoy both as they read, write imaginative stories and create art projects with multiple media. Children design, execute and share their artistic expression as they relate to the literature they have read. Reading, writing and creative expression are enhanced in this class.

*Subject Area: English & Writing*

*Qualifying Score: Reading*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 09 (a.m.) & 39 (p.m.)

*“The best part was hearing my son squeal with excitement when he saw something in nature or the outside world that he had learned in SEP.” — Saturday Enrichment Program parent*

## GRADES 2–3

### **Our Musical World** *Grades 2-3*

In this interactive music course, students study relationships between music, culture, science and mathematics. How does sound travel? How do we understand patterns in music? How do we compose new music of our own? Participants experiment with traditional instruments, explore digital ones and use listening labs to increase their understanding of this timeless art form.

*Subject Area: Creative Studies & Math*

*Qualifying Score: Reading or Math*

Sites: EV (a.m.) & CH (a.m.)

Course #: 10

### **Chances Are...** *Grades 2-3*

What are the odds of winning the lottery? Across the United States, many people ask themselves this every day. In “Chances Are...,” students explore the answer to this question and others while learning about probability. Independent and collaborative activities involving real world situations teach participants how to apply principles of probability and to understand the concept of chance. This course provides an introduction to understanding how statistics are gathered and interpreted.

*Subject Area: Math*

*Qualifying Score: Math*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 11 (a.m.) & 40 (p.m.)

### **Science Seekers: Mysteries** *Grades 2-3*

Would you like to unravel mysteries that fill our universe? Participants use diverse resources to find answers to questions about our world. Using the scientific method, students conduct experiments and record their results in lab reports. Topics include the exploration of polymers, rocks, minerals, mystery powders and crystals. Scientist or not, everyone discovers new things in this session.

*Subject Area: Science*

*Qualifying Score: Reading or Math*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 12 (a.m.) & 41 (p.m.)

### **Fairytales, Folktales, Myths & Legends** *Grades 2-3*

Robin Hood, King Arthur, Davy Crockett, Cinderella, and Hercules...What do these characters all have in common? For hundreds of years, from generation to generation, people of all cultures have told their tales. Students read these and other favorites from around the world, discovering that the things we value and hope for, are valued and hoped for by people all over the world. Participants find similarities and differences among stories from ancient and modern cultures that lived oceans apart from each other. Original lore is created and shared.

*Subject Area: English and Writing*

*Qualifying Score: Reading*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 13 (a.m.) & 42 (p.m.)

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 = Creative Studies Course

## GRADES 3–4

### The Ups & Downs of Graphing *Grades 3-4*

If a picture is worth a thousand words, then a pictograph must be worth a million words! Mathematicians collect unique data and statistics, and then find useful ways to represent this numerical information.

Participants in this course create all kinds of graphs, including line plots, bar graphs, pie charts, coordinate grids, histograms and more. Students learn the advantages and disadvantages to each as they plot points, chart statistics and display data about their own topics of interest.

*Subject Area: Math*

*Qualifying Score: Math*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m.) & CH (a.m.)

Course #: 14 (a.m.) & 43 (p.m.)

### WeDo™ Robotics *Grades 3-4*

WeDo™ engages students in introductory technological experiments that focus on science, mathematics, social studies and language concepts. Using icon-based programming software, students download and learn to write programs that allow them to manipulate the motions of LEGO® robots. Creativity and construc-

tion merge as students engage in this introduction to the mechanics of robotics.

*Notes:*

- *This is the same class as the fall and winter SEP sessions of WeDo™ Robotics.*

- *Additional \$25 lab & software fee required*

*Subject Area: Technology*

*Qualifying Scores: Reading or Math*

Sites: EV (a.m. & p.m.), NP (a.m.),

PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 15 (a.m.) & 44 (p.m.)

### From Story to Stage *Grades 3-4*

What do *Peter Pan*, *The Wizard of Oz* and *Little Orphan Annie* have in common?

They are all stories that were adapted for the stage. This course teaches improvisation and theatre techniques and also develops the cooperative process required to take a story from the start of an idea to a finished product. Aspiring dramatists work collaboratively to devise a story, create a script, design costumes and plan scenery as they prepare to perform a final production.

*Subject Area: English & Writing*

*Qualifying Score: Reading*

Sites: EV (a.m. & p.m.), NP (a.m.),

PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 16 (a.m.) & 45 (p.m.)

## GRADES 3–5

### Scratching Technology I *Grades 3-5*

Create your own digital stories, animations, games, music and art on a computer. Share these creations on the Internet with Scratch, a programming language designed to produce rich, interactive media while developing important 21st century skills. Students learn advanced mathematical and computational concepts while exploring the technological design process. Course participants share projects on the Scratch web site and join a global community of Scratch programmers for ongoing collaboration.

*Subject Area: Technology*

*Qualifying Score: Reading or Math*

Sites: EV (a.m.), NP (a.m.), PA (a.m.)

& CH (a.m.)

Course #: 17

### Scratching Technology II *Grades 3-5*

*Prerequisite: Scratching Technology I or instructor's permission*

Using the skills attained in Scratching Technology I, young programmers create digital stories, animations, games and music, as they develop new skills. Students share their projects on the web, as they create new Scratch projects and explore the design process to a greater extent. Participants continue to be active members of a global community of Scratch programmers.

*Subject Area: Technology*

*Qualifying Score: Reading or Math*

Sites: EV (p.m.), NP (p.m.), PA (p.m.)

& CH (p.m.)

Course #: 46




*“My child said, ‘This is the perfect school for me.’”*

— Saturday Enrichment Program parent

# SATURDAY ENRICHMENT PROGRAM COURSES — SPRING 2012

## GRADES 4–5

**Math, Physics & Sculpture**  *Grades 4-5*  
3D spatial awareness, essential in engineering and design, is cultivated through building. In weekly sculpture experiments, students build musical ‘instruments’ and kinetic sculpture. Participants explore materials, joints and the harnessing of natural energy (solar and wind) to ‘drive’ constructions, as well as study form and meaning. This course includes virtual visits to see sculpture by artists who build exhibits for national and international science museums.

*Subject Area: Creative Studies & Math*

*Qualifying Score: Reading or Math*

Site: EV (p.m.)

Course #: 47

### **Which Is the Better Deal?** *Grades 4-5*

Is it more cost efficient to buy small quantities of large boxes of cereal or large quantities of small boxes? Participants are presented with challenges relating to consumer economics as they look at real-life situations. As they work on complex problems, students acquire a better understanding of many mathematical concepts, allowing them to make informed decisions on a daily basis. This class provides a strong foundation for the study of algebra.

*Subject Area: Math*

*Qualifying Score: Math*

Sites: EV (a.m.), NP (a.m.), PA (a.m.) & CH (a.m.)

Course #: 18

*“I was quite impressed with the level of problem solving and higher level thinking my child was asked to do for this class.”*

— Saturday Enrichment Program parent

EV = Evanston; NP = Naperville; PA = Palatine; CH = Chicago

A.M. Classes: 9 a.m.–11:30 a.m.; P.M. Classes: 12 noon–2:30 p.m.

 = Creative Studies Course

### **Poetry Slam!**

*Grades 4-5*

Voice, rhythm, attitude, movement, humor and other techniques capture an audience as students perform poetry with pizzazz. Young poets practice and experiment with literary devices such as alliteration, metaphor, simile, and onomatopoeia as they read and deconstruct free verse poems, limericks, cinquains, haikus, couplets, and more. Informed by the poetry presented, students write their own performance poems about music, sports, homework, news or favorite foods, culminating in the session-ending Poetry Slam!

*Subject Area: English & Writing*

*Qualifying Score: Reading*

Sites: EV (a.m.), NP (a.m.), PA (a.m.)

& CH (a.m.)

Course #: 19

### **The Wow of Chemistry** *Grades 4-5*

Calling all chemists! Students investigate the chemical bonds that hold the world together by engaging in experiments and activities that focus on specific atoms, how they bond and the resulting chemical reactions. Participants are introduced to the properties of common acids, bases, solutions, compounds and molecules. Open-ended inquiries help future scientists and others understand meaningful, real-world applications while experiencing the “wow” aspect of chemistry.

*Subject Area: Science*

*Qualifying Score: Reading or Math*

Sites: EV (a.m. & p.m.), NP (a.m.),

PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 20 (a.m.) & 48 (p.m.)



## GRADES 4–6

### **Introduction to Latin I** *Grades 4-6*

Through a selection of engaging readings — in Latin and English — exercises and games, students are introduced to Latin vocabulary and grammar. Participants are challenged to complete translations while exploring ancient mythology, history, and society. As students study Latin, they learn to deduce the meaning of words and understand the power of English, while enhancing their vocabulary in both languages.

*Subject Area: World Languages*

*Qualifying Score: Reading*

Site: EV (a.m.)

Course #: 21

### **Introduction to Latin II** *Grades 4-6*

*Prerequisite: Students must have participated in Introduction to Latin I in the Fall 2011 or Winter 2012 or have instructor’s permission.*

Continuing their exploration into Latin vocabulary and grammar through a new selection of engaging readings, exercises and games in Latin and English, participants are challenged to complete more complex translations as they continue to explore ancient mythology, history and society. *Discipulus* become even better at both deducing the meaning of, and understanding the power of, English words, furthering their vocabulary in both English and Latin.

*Subject Area: World Languages*

*Qualifying Score: Reading*

Site: EV (p.m.)

Course #: 49

## GRADES 5–6

### Introduction to Algebra I *Grades 5-6*

This course covers topics taught in the first semester of a traditional Pre-Algebra course. (The second semester topics are covered in the “Introduction to Algebra II,” see below.) Topics include variables, expressions, integers, solving equations, multi-step equations, inequalities, factors, fractions, exponents, rational numbers and rational number equations.

*Subject Area: Math*

*Qualifying Score: Math*

Sites: EV (a.m.), NP (a.m.), PA (a.m.)

& CH (a.m.)

Course #: 22

### Introduction to Algebra II *Grades 5-6*

*Prerequisite: Students must have participated in Introduction to Algebra I in Fall 2011 or Winter 2012.*

This course covers topics taught in the second semester of a traditional Pre-Algebra course. Topics include the properties of real numbers, solving equations and inequalities, factors and rational expressions, irrational numbers and radicals, quadratic equations, and setting up and solving algebraic word problems.

*Area: Math*

*Qualifying Score: Math*

Sites: EV (p.m.), NP (p.m.), PA (p.m.)

& CH (p.m.)

Course #: 50

### Math Challenges

*Grades 5-6*

Who is ready for the next math challenge?

This class introduces students to what advanced mathematics is all about and why it is such a hot topic. Integers, equations, relationships, functions, exponents, fractals and other topics of interest to mathematicians are explored. Participants discover how powerful and exciting the world of mathematics can be as they increase their knowledge base and skill level.

*Subject Area: Math*

*Qualifying Score: Math*

Sites: EV (a.m. & p.m.), NP (a.m.),

PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 23 (a.m.) & 51 (p.m.)

### Creative Storytelling & Writing *Grades 5-6*

Use your talents to create funny, scary and amazing stories that people will want to read over and over again. Poetry, music, video recording, computer animation and great writing are combined to develop plot, characters, and settings for original tales. Share your creativity with friends and family by presenting stories at our session-ending “Tell-A-Bration.”

*Subject Area: English & Writing*

*Qualifying Score: Reading*

Sites: EV (a.m. & p.m.), NP (a.m.),

PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 24 (a.m.) & 52 (p.m.)

### Computer Gaming Academy I *Grades 5-6*

When does computer game development become more than just a diversion? It happens when the process integrates storytelling, art, digital media, logic and a Java graphic application called Greenfoot. Young programmers create and develop their own characters and rules to design strategies and tactics for a game of their own. Students increase their technological skills and competency in a high profile medium.

*Note: This is the same class as the fall and winter SEP sessions of Computer Gaming Academy I.*

*Subject Area: Technology*

*Qualifying Score: Reading or Math*

Site: EV (a.m.)

Course #: 25

### Computer Gaming Academy II *Grades 5-6*

*Prerequisite: Computer Gaming Academy I or instructor's permission*

Computer gamers take their programming skills to the next level by creating an original video game. Students in this class continue to explore and implement the Java graphic application, Greenfoot. They develop original characters and special effects as part of game development. Participants build upon the programming and digital media skills introduced in Computer Gaming Academy I.

*Subject Area: Technology*

*Qualifying Score: Math or Reading*

Site: EV (p.m.)

Course #: 53

*“He enjoys that he is learning with children who have similar abilities.”*

— Saturday Enrichment Program parent



# SATURDAY ENRICHMENT PROGRAM COURSES — SPRING 2012

## GRADES 5–7

### Robotics I *Grades 5-7*

Robotic applications are employed regularly on automated assembly lines for medical applications and countless other tasks. Using the advanced features of the LEGOS® MINDSTORM NXT® system, participants study robots by designing and building them, complete with light, sound and touch sensors. These robots may not assemble cars, but they provide an excellent introduction to robotics.

#### Notes:

- *This is the same class as the fall and winter SEP session of Robotics I.*
- *Additional \$50 lab and software fee required.*

*Subject Area: Technology*

*Qualifying Score: Reading or Math*

Sites: EV (a.m.), NP (a.m.), PA (a.m.) & CH (a.m.)

Course #: 26

### Robotics II *Grades 5-7*

*Prerequisite: Previous CTD robotics class or instructor's permission*

In the past, the idea that machines could function like humans was merely science fiction. Today, using the LEGOS® MINDSTORM NXT® Robotics Design System, students learn to engineer, build and program robots to perform simple tasks. In small, collaborative groups, participants create autonomous robots by applying their knowledge of math, science and physics in situations that require teamwork and cooperation. Who knows what new ideas may be generated in this class?

#### Notes:

- *This is the same class as the Winter 2012 SEP session of Robotics II.*
- *Additional \$50 lab and software fee required.*

*Subject Area: Technology*

*Qualifying Scores: Reading or Math*

Site: EV (p.m.) PA (p.m.) & CH (p.m.)

Course #: 54



## GRADES 6–7

### Bioengineer My Lunch, Please *Grades 6-7*

Crops have been genetically modified for over 100 years, with new experiments beginning all of the time. Broccoflower and tangelos are two popular items found in the produce aisle that fit this category. Students explore topics such as nutrition and the controversy that surrounds genetic modifications as they question the pros and cons of aspects of horticulture that could, potentially, address world hunger.

*Subject Area: Science*

*Qualifying Score: Reading or Math*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m. & p.m.) & CH (a.m. & p.m.)

Course #: 27 (a.m.) & 55 (p.m.)

## GRADES 6–8

### Introduction to Cartoon Storytelling *Grades 6-8*

This course helps students communicate their ideas effectively and develop personal expression through story and characters. Using writing and drawing, students express their stories in comic strip, comic book, illustration and storyboard formats. Learn how to become a great observer of

interaction and the characters who inhabit your everyday life.

*Subject Areas: Creative Studies & English & Writing*

*Qualifying Score: Reading or Math*

Site: EV (a.m.)

Course #: 28

## GRADES 6–9

### Statistical Research *Grades 6-9*

Let the numbers tell the story. In this course, students interpret visual representations and make intuitive judgments as they explore the fundamental ideas of probability and statistics. Real-life exercises, such as finding the rate of success in SAT math scores with respect to geographical locations, provide students with tangible examples of subjects including frequency distribution, sample sizes and variability in populations. Computers are used to conduct experiments involving random trials and to provide various representations including graphs and charts. This course is for those who love numbers and want to think more like mathematician.

*Subject Area: Math*

*Qualifying Score: Math*

Sites: EV (a.m. & p.m.), NP (a.m.), PA (a.m.) & CH (a.m.)

Course #: 29 (a.m.) & 56 (p.m.)

## GRADES 7–9

### Bioethics *Grades 7-9*

Bioethics is the intersection of science, law, religion and philosophy. Students engage in discussions on weekly topics such as: euthanasia/assisted suicide, pandemic protocol, pharmaceutical access, socialization of medicine, organ donation, animal rights, etc. Participants investigate the science behind these topics and existing protocols from professional associations including the World Council for Ethical Standards and the World Health Organization as they search for the answers to current and future ethical issues.

*Subject Area: Humanities & Social Sciences*

*Qualifying Score: Reading or Math*

Site: EV (p.m.)

Course #: 58

EV = Evanston; NP = Naperville; PA = Palatine; CH = Chicago

A.M. Classes: 9 a.m.–11:30 a.m.; P.M. Classes: 12 noon–2:30 p.m.

 = Creative Studies Course

# ACCELERATED WEEKEND EXPERIENCE (AWE) For Grades 5–8

AWE provides academically talented students in grades 5 through 8 an opportunity to explore an area of study in depth and with concentration over one weekend. Since older students often try to juggle many commitments, AWE affords them the chance to be inspired and impassioned in a short timeframe by an expert in the field.

Participants explore a topic with like-minded peers and motivating instructors.

AWE courses occur over two days, a Saturday and Sunday, from 9 a.m. to 2:30 p.m. and are offered in various locations throughout Chicagoland and elsewhere.

Two courses are typically available each weekend—one for students in grade 5 or 6 and one for students in grade 7 or 8—in math, science or technology.

**Admission criteria:** A score in the 95<sup>th</sup> percentile or above in reading or math on a nationally normed test. Students without the requisite test scores may apply using an admission portfolio.

**Tuition & Fees:** \$225 tuition plus \$60 application fee for a total of \$285.

*A limited amount of financial aid is available.*

**Previous AWE courses include the following:**

- Veterinary Medicine
- Forensic Science
- Cognitive Neuroscience
- Cryptography
- Statistical Research
- Math for Computer Graphics
- Alice
- Robocode
- StarLogo
- Marine Biology
- Photoshop
- Aviation

**If you have a course idea for the future, send it to [awe@northwestern.edu](mailto:awe@northwestern.edu).**



*“My son asked to take a lot more classes. He loves to soak in new information.” — Parent of AWE Student*

*“I loved learning what really goes on in this career, and the hands on activities were so much fun.” — AWE Student*

**For the current list of 2012 AWE offerings:  
[www.ctd.northwestern.edu/sep/courses/awe/](http://www.ctd.northwestern.edu/sep/courses/awe/)  
New programs posted as scheduled —  
Check frequently for updates**

## **FOR SCHOOLS/SCHOOL DISTRICTS:**

**Would you like to host a**

**Northwestern University program on**

**site?** The AWE program is an excellent

way to provide exciting and challeng-

ing enrichment opportunities for your

gifted middle school students. CTD

delivers the curriculum of your choice,

finds instructors and handles adminis-

trative support. We simply need two

classrooms and your brightest minds.

Contact us at [awe@northwestern.edu](mailto:awe@northwestern.edu)

for more information.

# HIGH SCHOOL CREDIT COURSES For Grades 7–9

The Saturday Enrichment Program (SEP) offers several courses for high school credit.

The material regularly covered in a one-or-two semester high school honors-level course is completed by attending all three SEP sessions (22 weeks) and finishing weekly assignments both in and out of class. During the 2011–2012 academic year, three courses have been or are being offered to students in grades 7 through 9 for high school credit: **Survey of High School Lab Science Honors, Persuasion & Debate Honors and High School Writing Honors.** If desired, students may participate in any or all of these course offerings for enrichment purposes beginning in any session. Students wishing to earn high school credit may take the three sessions over no more than a two-year time span to complete the cycle. Student absences must be kept to a minimum in order to earn credit. Four to five hours of homework each week is to be expected. Center for Talent Development is accredited as a supplementary school by the North Central Association Commission on Accreditation and School Improvement (NCA CASI).

**The acceptance of credits at a student’s school depends on that school’s institutional policy regarding the recognition of credit from outside institutions. If your child is interested in obtaining credit, CTD recommends discussing this with an appropriate school administrator or counselor before applying for the course. Transcripts are issued upon request.**

## CREDIT COURSES

**Creative Writing Honors:** *Grades 7-9*  
**Fiction**

This course is designed for students who are passionate about words and writing and are eager to perfect their skills. Students learn how to create and develop compelling story lines. Emphasis is placed on imaginative use of language, learning to “show not tell,” and the art of revision. Students have the opportunity to revise their works based on individual teacher response and critique and are expected to produce polished, short pieces by the end of the session.

*Notes:*

- *This is the third of the three-course series required for students seeking high school credit for Creative Writing Honors for this academic year.*
- *Students may elect to take any or all of these courses for enrichment purposes only.*
- *High school credit: 2 semesters for three sessions of participation.*

*Subject Area: English & Writing*

*Qualifying Score: Reading*

*Site: EV (a.m.)*

*Course #: 30*



EV = Evanston; NP = Naperville; PA = Palatine; CH = Chicago  
A.M. Classes: 9 a.m.–11:30 a.m.; P.M. Classes: 12 noon–2:30 p.m.



**Survey of High School Lab Science Honors: Chemistry**      *Grades 7-9*

Chemistry is the science focused on the composition, structure, and properties of matter, as well as the changes they undergo during chemical reactions. This third part of a three-part course introduces students to important concepts in chemistry. Lab-based experiments and problem solving provide a foundation of knowledge for future study. Students develop an appreciation for chemical principles and applications while improving their scientific literacy as they discover the interrelationships among chemistry, the other sciences and mathematics.

*Notes:*

- *This is the third of a three-course series required for students seeking high school credit for Integrated Science Honors this academic year.*
- *Students may elect to take any or all of these courses for enrichment purposes only.*
- *Additional \$120 lab fee.*
- *High school credit: 2 semesters for three sessions of participation.*

*Subject Area: Science*

*Qualifying Score: Reading & Math*

*Sites: EV (a.m. & p.m.), NP (a.m. & p.m.), PA (a.m.) & CH (a.m.)*

*Course #s: 31 (a.m.) & 57 (p.m.)*

**Persuasion & Debate Honors**      *Grades 7-9*

This course is designed to provide students with knowledge of the principles and practices of effective communication in most speaking situations they encounter in school and later life. Preparation and presentation, effective body language, the vocal mechanism and the debate process are covered, along with effective listening skills. Grounded in rhetorical tradition and in the currently accepted principles and findings related to the behavioral sciences, debate techniques are explored. Topics are student-generated and provide opportunities for participants to practice and improve their persuasive communication skills.

*Notes:*

- *This is the third of a three-course series required for students seeking high school credit for Persuasion & Debate Honors this academic year.*
- *Students may elect to take any or all of these courses for enrichment purposes only.*
- *High school credit: 2 semesters for three sessions of participation.*

*Subject Area: English & Writing*

*Qualifying Score: Reading*

*Site: EV (a.m.)*

*Course #: 32*

*“We think that your class has provided our son with a glimpse of what he can expect in high school and has taught him about debate.”*

— Saturday Enrichment Program parent



# Saturday Enrichment Program & Accelerated Weekend Experience Details

## WELCOME TO WEEKEND LEARNING!

The **Saturday Enrichment Program (SEP)** offers courses in all academic areas for talented students in PreK through grade 9. Courses are fast-paced and geared toward students who function 1½ to 2 grades above their current grade level.

The **Accelerated Weekend Experience (AWE)** offers students in grades 5 through 8 an opportunity to work intensively with an expert or practitioner in the field over one weekend on a specific topic of interest.

## Our Faculty

The Center for Talent Development (CTD) selects instructors based on their mastery of subject matter, experience, enthusiasm and the ability to differentiate instruction. Teachers are skilled at providing interesting and thought-provoking learning experiences for academically talented students.

## WHO CAN PARTICIPATE

All students applying to CTD's educational programs must provide evidence of their ability to succeed in that program. Students should submit test scores from a nationally normed, standardized grade-level assessment. If test scores submitted are more than 2 years old, CTD may request additional information or updated test scores to complete the application.

Students applying for Survey of High School Science courses should have above-grade-level test scores taken through Northwestern University's Midwest Academic Talent Search (see next column) or a similar program. If a student does not have above-grade-level test scores, s/he must have qualifying test scores in both reading and math on a nationally normed standardized test.

Lacking test scores, students in grade 3 or higher may apply as an Admission Portfolio applicant. See page 13.

## Admission Application Guidelines:

**1. Prequalified or Returning Students:** You are a prequalified or returning student if you have successfully completed a previous CTD Saturday Enrichment Program, Summer Program, Gifted LearningLinks or Accelerated Weekend Experience class *in the same content area as the course for which you are currently applying.* (Note: GLL Family Program courses are not qualifying courses.)

**2. New Applicants or New Scores:** You are a new applicant or an applicant with new scores if you meet one of the following two criteria:

- You have never attended a CTD program, and you have qualifying test scores.
- You have previously attended a CTD program, but you are now applying for a course in a subject area different than the course you successfully completed, and you have qualifying test scores.

See the next section for information on qualifying test scores.

**3. Admission Portfolio Applicants:** You should assemble an admission portfolio if you are a new student who lacks required test scores, a student planning to receive high school credit who does not have above-grade-level test scores, or a student prequalified in a different subject area who does not have qualifying test scores. Follow the instructions for the Admission Portfolio outlined in the Admission Portfolio section on page 13.

- **Homeschooled and other students:** Students who lack required test scores should apply by Admission Portfolio.

## QUALIFYING SCORES

- **Applicants age 4 through grade 3** who do not have a nationally normed test score at the 95th percentile or above (verbal/reading or mathematics) must have a successful academic evaluation through CTD or an outside source (see TESTING, page 14).
- **Applicants in grades 2 through 9** must have a reading or math sub-test score at the 95th percentile or higher on a nationally normed, standardized achievement test in the subject area for which they are applying.
- **Students applying for high school credit courses** must present one set of nationally normed test scores taken within the last two years, above-grade-level testing, or they must apply by the Admission Portfolio outlined on page 13.

*Please note:*

- *Math course admissions are based on math scores.*
- *English & Writing and Humanities & Social Sciences admissions are based on reading scores.*
- *Science, Technology, Creative Studies and Interdisciplinary admissions are based on reading or math scores.*
- *Survey of High School Lab Science admission is based on reading and math scores.*

## ABOVE-GRADE-LEVEL TESTING THROUGH NORTHWESTERN UNIVERSITY'S MIDWEST ACADEMIC TALENT SEARCH (NUMATS)

An above-grade-level test result is the preferred tool for admission to CTD programs for students in grades 3 or higher. If you are interested in having your child take the EXPLORE, ACT or SAT through NUMATS, testing dates are posted and registration is available online [www.ctd.northwestern.edu/numats](http://www.ctd.northwestern.edu/numats). Check the timeline for receipt of official scores to ensure they will be available when needed.

*“She was so excited to attend class each week; she was disappointed when it ended.” — Saturday Enrichment Program parent*

## ADMISSION PORTFOLIO

Students in grades 3 through 9 who are new to CTD and do not have test scores that meet the required criteria, or returning students whose previous test scores do not qualify for admission or who plan to take the course for high school credit, should submit *both* of the following:

- Two teacher recommendations indicating the student is performing at a level at which s/he is likely to succeed in a course that is 1½ to 2 years above grade level in the appropriate subject area. The recommendation form is available at [www.ctd.northwestern.edu/sep/downloads](http://www.ctd.northwestern.edu/sep/downloads).
- Most recent school report card indicating exceptional performance in the appropriate subject area.

## COURSE COSTS

| SEP                           |       | AWE                           |       |
|-------------------------------|-------|-------------------------------|-------|
| Tuition                       | \$250 | Tuition                       | \$225 |
| Non-Refundable Processing Fee | \$ 60 | Non-Refundable Processing Fee | \$ 60 |
| Total Course Cost             | \$310 | Total Course Cost             | \$285 |

### Notes:

- *Survey of High School Lab Science Honors requires an additional lab fee of \$120; total cost for this course is \$430.*
- *SEP Robotics courses have additional fees. See course description.*
- *Some AWE courses require an additional lab fee of \$10; check website for details.*
- *Applications for spring SEP courses received online or postmarked after Saturday, March 31, 2012 must include a \$25 late fee.*
- *Applications for the spring session received after 5 p.m. on Tuesday, April 10, 2012 will be considered for the second week of class and must include a \$75 late fee and full tuition. **Tuition is not prorated.***
- *Accelerated Weekend Experience applications must be received no later than 5 p.m. on the Tuesday prior to the course start date.*

## APPLICATION PROCEDURES

### Filling out the Application

We encourage you to apply online through the website at [www.ctd.northwestern.edu/sep/apply](http://www.ctd.northwestern.edu/sep/apply). Alternatively, you may download an Application for Admission from the CTD website (menu item: Downloads). If applying for both a morning and afternoon course, you must fill out two applications but will only be charged a single processing fee. If applying for both SEP and AWE, you must fill out two applications (single processing fee). Applications are not considered for admission until payment and all documentation is received.

*“He looked forward to the program each week. He always left the class with a smile and something new to teach us.”*

— Saturday Enrichment Program parent



### Submitting the Application

Completed applications for SEP must be received online, sent via U.S. mail, scanned and e-mailed to [sep@northwestern.edu](mailto:sep@northwestern.edu), or hand delivered to the Saturday Enrichment Program office at 625 Noyes Street, Evanston, IL 60208 by March 31, 2012.

Applications received after that date will be subject to a late fee of \$25. Since courses are filled on a first come, first served basis, CTD recommends that you submit your application as early as possible.

Please see the Who Can Participate section (page 12) to determine which one of the three applicant categories best describes your child’s status and follow the application procedures for that designation.

### Payment Information

- Full payment must be submitted with all applications.
- Payment may be made by check, money order, or credit card (Visa, MasterCard, Discover and Diner’s Club); online applications must be paid by credit card.
- Please make checks/money orders payable to “Center for Talent Development.”
- If a child is registering for both a morning and afternoon course or for an AWE and SEP course at the same time, only one non-refundable processing fee of \$60 is required. However, two applications must be filled out.
- Financial aid applications must be accompanied by a \$75 fee which includes the \$60 processing fee and must be received by Saturday, March 31. This fee is refundable if full aid is not awarded, and the student subsequently does not take the course. See website for the financial aid form.
  - Financial aid applications are not complete and will not be considered unless a copy of the first two pages of the family’s most current tax return is submitted.

# Saturday Enrichment Program & Accelerated Weekend Experience

# Details

continued

## Late Registration

During late registration for SEP (after March 31, 2012), a late fee of \$25 must be added to all applications. CTD will automatically add this fee if not included with the application submission.

During late registration only, completed applications may be faxed to 847/491-3394. All faxes must include a credit card number and expiration date.

**SEP:** Applications received after 5 p.m. on Tuesday, April 10, will be considered for admission beginning the second week of class and must include a \$75 late fee. Classes will not be prorated.

**AWE:** Applications must be received by 5 p.m. on Tuesday before the session.

*Note: Phone registrations are not accepted under any circumstances.*

## Refunds & Withdrawals

All requests for refunds and/or withdrawals must be made in writing and submitted to CTD via U.S. mail or e-mail at [sep@northwestern.edu](mailto:sep@northwestern.edu) by the Tuesday prior to the Saturday course start date.

The processing fee for both SEP and AWE is not refundable except to students whose admission is denied, whose course is closed or cancelled or students who do not receive a financial aid award adequate for participation. If an AWE applicant withdraws but is participating in a SEP course and only paid a single processing fee, \$60 will be withheld from the refund. Refund processing takes six weeks starting from the time a written or e-mail request is received by CTD.



## TESTING

Since many students age 4 through grade 3 and homeschooled students have not taken nationally normed, standardized achievement tests in school, CTD has developed a testing program for students who are at least four years old but not yet in fourth grade. CTD testing is not a general psychological evaluation; it is a screening for admission into CTD programs only. These tests are separate from the NUMATS assessment described on page 12.

If you would like to use CTD's testing service for your child, please contact CTD for an appointment as early as possible so the evaluation can be completed in time to meet your needs. Please call 847/491-3782, extension 6, or e-mail [ctd-testing@northwestern.edu](mailto:ctd-testing@northwestern.edu).

The 45- to 60-minute evaluation is conducted by a CTD test consultant at your choice of several locations. The length of the testing time generally depends on the age of the child. Parents receive a verbal report at the conclusion of the testing. A written report is subsequently mailed to the family.

A \$120 fee, payable by check, cash or money order, is due at the time of testing. Credit cards cannot be taken for testing. If you need to cancel or reschedule an appointment, you must call or e-mail CTD at least 24 hours in advance, or you will be charged a \$25 cancellation fee.

The CTD evaluation consists of achievement tests in letter recognition and reading, early mathematics, general information, abstract logical reasoning ability and fine motor coordination. Please refer to CTD's website at [www.ctd.northwestern.edu/sep/program/sep/eligibility](http://www.ctd.northwestern.edu/sep/program/sep/eligibility) for additional information.

## COURSE EVALUATIONS & GRADES

All SEP students receive a narrative evaluation from the instructor approximately four weeks following the conclusion of a course. This includes comments on the student's performance in class as well as recommendations for future study.

Grades are only assigned for high school credit courses. Upon completion of all three sessions, students receive an official Center for Talent Development transcript with their course grade if requested. CTD will also send the evaluation and transcript to a designated high school if requested.

No evaluations are issued for AWE.

## FINANCIAL AID

Need-based financial aid is available to Saturday Enrichment Program (SEP) students for one course per session. To be considered, please complete the SEP CTD financial aid application, available online at [www.ctd.northwestern.edu/sep/downloads](http://www.ctd.northwestern.edu/sep/downloads). A request must include a signed copy of the first two pages of the family's latest federal income tax return, a statement of financial need and payment of a \$75 fee. Only financial aid requests completed by the application deadline of March 31 will be considered. **If the financial aid award is not sufficient for the family and the student is unable to enroll, the application fee will be refunded.**

## COURSE PLACEMENT

Students are placed in courses in the order in which their completed applications arrive at CTD, provided that course admission criteria are met and tuition and fees are paid in full. Class size is limited. If a student's first choice is full, s/he will be placed in her/his second or third choice. Please only select courses that are of interest to your child.

## ACCEPTANCE NOTIFICATION

Families receive e-mail notification of their acceptance into the program, course placement and other pertinent information two to three weeks following receipt of a complete application. Room assignments are e-mailed the week prior to class start date. If you do not hear from CTD by the Tuesday before classes begin, please call the office: 847/491-3782, extension 4

## PROGRAM ORIENTATION & PARENT/GUARDIAN SEMINARS

On the first day of each session the Saturday Enrichment Program conducts an orientation for parents/guardians at all sites. On subsequent Saturdays, CTD hosts speakers on topics of interest to families of gifted children. The dates, times and locations of presentations are available on the CTD website at the start of the session. The seminars are free, and parents are welcome to bring guests. There is no speaker on the final day of classes. Instead, students participate in an *Expo!*, demonstrating their accomplishments.

## CARPools

If you wish to be part of a carpool, please mark the carpool box on the application. Late requests are not accepted. Families requesting carpool information will receive it via e-mail before class begins.

## PROGRAM POLICIES

- If enrollment in a course does not reach a required minimum, CTD reserves the right to cancel that particular course. If a course is cancelled, CTD notifies all students registered for that course by phone and/or e-mail. A full refund (including application fee) will be granted if the student does not choose or wish to take an alternate course. If the student has listed an alternate course, s/he will be reassigned to that choice and notified.

- Transfers between courses are only granted prior to the second Saturday, subject to capacity and qualifications. Requests must be made by the Tuesday following the start of the session.
- Students are expected to attend every class. If your child does not plan to attend class, please let us know. E-mail us at [sep@northwestern.edu](mailto:sep@northwestern.edu) or call 847/491-3782, extension 4 on Monday through Friday between 9 a.m. and 5 p.m.
- **On Saturdays only** all communication should be directed to:
  - Evanston 847/467-3368
  - Naperville 630/303-7024
  - Palatine 224/619-2062
  - Chicago 312/823-0277
  - AWE 773/936-2102
- Parents may not remain in class for more than 15 minutes on the first day and following that, not at all.
- Friends of students may not visit Saturday Enrichment Program classes. On the last day of class, guests may accompany a family member during the *Expo!*

## LATE PICK UP

If no one has come for a child more than 15 minutes past the pickup time, the family will be charged \$1 per minute past this grace period. Payment may be made by cash, check or credit card at the time the child is picked up.

## BEHAVIORAL EXPECTATIONS

Appropriate behavior is expected of all students who attend the Saturday Enrichment Program and Accelerated Weekend Experience. Issues are resolved as follows:

- Instructor and student will confer.
- When necessary, instructor contacts the parent(s)/guardian(s).
- When necessary, CTD staff meets with the student, parent(s)/guardian(s) and instructor.
- Chronic problems unresolved by the above measures may result in dismissal of the child from the program.

## INTELLECTUAL OWNERSHIP & ACADEMIC HONESTY

Students are expected to act with honesty and personal integrity in all of their academic work. Using the words and ideas of someone else without proper attribution, thus implying that they are the student's own, is intellectual theft that robs the student of an important opportunity to learn. Consequences for academic dishonesty or improper "netiquette" on the computers may include grade reduction, failure of the course in classes taken for credit, or program dismissal.

## THIRD-PARTY WEBSITES

*Because web content continuously changes, CTD disclaims any responsibility for any of the content contained on third-party websites used in course materials. If you become aware of anything that may be inappropriate, please notify CTD staff immediately.*

# COURSE REFERENCE CHART Spring 2012

## SATURDAY ENRICHMENT PROGRAM (SEP)

**APRIL 14 – MAY 19, 2012**

Spring session 6-week courses will meet at Northwestern University Evanston campus, North Central College in Naperville, Quest Academy in Palatine and The Frances Xavier Warde School, Holy Name Campus in Chicago. Check the website for AWE sessions.

*Please note the site location when selecting courses.* Site Codes: EV = Evanston; NP = Naperville; PA = Palatine; CH = Chicago

All 6-week SEP courses total \$310 with the following exceptions:

- Survey of High School Lab Science Honors; additional \$120 lab fee totaling \$430.
- Robotics courses have additional fees. See course descriptions.

| #   | GRADE  | COURSE TITLE  | CONTENT AREA                         | SITES          |
|---|--------|---|--------------------------------------|----------------|
| <b>Morning Classes: 9 a.m. – 11:30 a.m.</b> |        |   |                                      |                |
| 01  | PreK-K | Ocean Adventures                                    | Interdisciplinary                    | EV, NP, PA, CH |
| 02  | PreK-K | Purposeful Probability                              | Math                                 | EV, NP, PA, CH |
| 03  | K-1    | The Art & Science of Color                          | Creative Studies & Science           | EV, NP, PA     |
| 04  | K-1    | Math on the Move                                    | Math                                 | EV, NP, PA, CH |
| 05  | K-1    | Amazing Animals                                     | Science                              | EV, NP, PA, CH |
| 06  | K-1    | Heroes & Villains                                   | English & Writing                    | EV, NP, PA, CH |
| 07  | 1-2    | Mathematically Ever After                           | Math                                 | EV, NP         |
| 08  | 1-2    | Simple Machines: An Introduction to Engineering     | Science                              | EV, NP, PA, CH |
| 09  | 1-2    | Books that Inspire Creativity                       | English & Writing                    | EV, NP, PA, CH |
| 10  | 2-3    | Our Musical World                                   | Creative Studies & Math              | EV, CH         |
| 11  | 2-3    | Chances Are...                                      | Math                                 | EV, NP, PA, CH |
| 12  | 2-3    | Science Seekers: Mysteries                          | Science                              | EV, NP, PA, CH |
| 13  | 2-3    | Fairytales, Folktales, Myths & Legends              | English & Writing                    | EV, NP, PA, CH |
| 14  | 3-4    | The Ups & Downs of Graphing                         | Math                                 | EV, NP, PA, CH |
| 15  | 3-4    | WeDo™ Robotics                                      | Technology                           | EV, NP, PA, CH |
| 16  | 3-4    | From Story to Stage                                 | English & Writing                    | EV, NP, PA, CH |
| 17  | 3-5    | Scratching Technology I                             | Technology                           | EV, NP, PA, CH |
| 18  | 4-5    | Which is the Better Deal?                           | Math                                 | EV, NP, PA, CH |
| 19  | 4-5    | Poetry Slam!  | English & Writing                    | EV, NP, PA, CH |
| 20  | 4-5    | The Wow of Chemistry                                | Science                              | EV, NP, PA, CH |
| 21  | 4-6    | Introduction to Latin I                             | English & Writing                    | EV             |
| 22  | 5-6    | Introduction to Algebra I                           | Math                                 | EV, NP, PA, CH |
| 23  | 5-6    | Math Challenges                                     | Math                                 | EV, NP, PA, CH |
| 24  | 5-6    | Creative Storytelling & Writing                     | English & Writing                    | EV, NP, PA, CH |
| 25  | 5-6    | Computer Gaming Academy I                           | Technology                           | EV             |
| 26  | 5-7    | Robotics I  | Technology                           | EV, NP, PA, CH |
| 27  | 6-7    | Bioengineer My Lunch, Please                        | Science                              | EV, NP, PA, CH |
| 28  | 6-8    | Introduction to Cartoon Storytelling                | Creative Studies & English & Writing | EV             |
| 29  | 7-9    | Statistical Research                                | Math                                 | EV, NP, PA, CH |
| 30  | 7-9    | Creative Writing Honors: Fiction                    | English & Writing                    | EV             |
| 31  | 7-9    | Survey of High School Lab Science Honors: Chemistry | Science                              | EV, NP, PA, CH |
| 32  | 7-9    | Persuasion and Debate Honors                        | English & Writing                    | EV             |

| #   | GRADE  | COURSE TITLE  | CONTENT AREA                | SITES          |
|---|--------|---|-----------------------------|----------------|
| <b>Afternoon Classes: 12 noon – 2:30 p.m.</b> |        |   |                             |                |
| 33  | PreK-K | Ocean Adventures                                    | Interdisciplinary           | EV, PA, CH     |
| 34  | PreK-K | Purposeful Probability                              | Math                        | EV             |
| 35  | K-1    | Math on the Move                                    | Math                        | EV, PA, CH     |
| 36  | K-1    | Amazing Animals                                     | Science                     | EV             |
| 37  | K-1    | Heroes & Villains                                   | English & Writing           | EV, PA, CH     |
| 38  | 1-2    | Simple Machines: An Introduction to Engineering     | Science                     | EV, PA, CH     |
| 39  | 1-2    | Books that Inspire Creativity                       | English & Writing           | EV, PA, CH     |
| 40  | 2-3    | Chances Are...                                      | Math                        | EV, PA, CH     |
| 41  | 2-3    | Science Seekers: Mysteries                          | Science                     | EV, PA, CH     |
| 42  | 2-3    | Fairytales, Folktales, Myths & Legends              | English & Writing           | EV, PA, CH     |
| 43  | 3-4    | The Ups & Downs of Graphing                         | Math                        | EV             |
| 44  | 3-4    | WeDo™ Robotics                                      | Technology                  | EV, PA, CH     |
| 45  | 3-4    | From Story to Stage                                 | English & Writing           | EV, PA, CH     |
| 46  | 3-5    | Scratching Technology II                            | Technology                  | EV, NP, PA, CH |
| 47  | 4-5    | Math, Physics & Sculpture                           | Creative Studies & Math     | EV             |
| 48  | 4-5    | The Wow of Chemistry                                | Science                     | EV, PA, CH     |
| 49  | 4-6    | Introduction to Latin II                            | English & Writing           | EV             |
| 50  | 5-6    | Introduction to Algebra II                          | Math                        | EV, NP, PA, CH |
| 51  | 5-6    | Math Challenges                                     | Math                        | EV, PA, CH     |
| 52  | 5-6    | Creative Storytelling & Writing                     | English & Writing           | EV, PA, CH     |
| 53  | 5-6    | Computer Gaming Academy II                          | Technology                  | EV             |
| 54  | 5-7    | Robotics II   | Technology                  | EV, PA, CH     |
| 55  | 6-7    | Bioengineer My Lunch, Please                        | Science                     | EV, PA, CH     |
| 56  | 7-9    | Statistical Research                                | Math                        | EV             |
| 57  | 7-9    | Survey of High School Lab Science Honors: Chemistry | Science                     | EV, NP         |
| 58  | 7-9    | Bioethics   | Humanities & Social Science | EV             |

Please check the CTD website for course availability updates and for upcoming Accelerated Weekend Experiences:  
[www.ctd.northwestern.edu/sep/program/awe](http://www.ctd.northwestern.edu/sep/program/awe)

## PROGRAMS AND RESOURCES FOR ACADEMICALLY GIFTED STUDENTS

Center for Talent Development (CTD) at Northwestern University offers a range of year-round programs and services for academically gifted students (PreK – grade 12), their parents and teachers. Every program meets high standards that CTD has developed and refined during its 30 years of research and practice. Small class sizes and world-class university resources create a learning environment that is ideal for motivated, curious students ready to excel. CTD is accredited as a nonpublic supplementary school by the **North Central Association Commission on Accreditation and School Improvement**.

## OPPORTUNITIES FOR THE FUTURE FAMILY CONFERENCE

**Saturday, June 23, 2012**

### Northwestern University Evanston Campus.

CTD's annual family conference offers parents the chance to learn from experts in gifted education about talent development, social and emotional issues and educational options. Students in grades 4 through 12 attend workshops presenting fascinating applications of their favorite subjects and introducing them to various career paths.

**2012 Conference Keynote:** Kristie Speirs Neumeister, PhD, Ball State University and Virginia Burney, PhD, consultant, High Ability Education, discuss psychosocial skills training; helping students be successful beyond academics by learning to focus, work with others, face challenges, and maintain confidence after setbacks. (Conference program and registration information available on website.)

## NORTHWESTERN UNIVERSITY'S MIDWEST ACADEMIC TALENT SEARCH (NUMATS)

NUMATS supports a community of gifted learners with above-grade-level testing, academic planning and access to targeted resources. Students who score in the top 10th percentile on grade-level tests have reached the test ceiling and their true academic talent remains unknown. NUMATS uses EXPLORE, ACT and SAT — tests normally administered to older students for high school and college admission — to gain a more accurate assessment of high achievers in grades 3 through 9. Parents and teachers receive help in interpreting test scores and valuable tools to chart an effective academic path for their students. NUMATS serves the families of 25,000 gifted children every year.

Visit [www.ctd.northwestern.edu](http://www.ctd.northwestern.edu) for complete information on all Center for Talent Development programs and services.

## SUMMER PROGRAM

Learning continues once school adjourns for the year, through CTD's Summer Program. Rigorous and engaging options exist for gifted children PreK through grade 12. Students can pursue special interests and develop their talents in a variety of subject areas through intensive one, two or three-week courses. PreK through grade 3 programs are held in several locations throughout Chicagoland. Programs for grades 4 and above convene in Evanston and Elmhurst, Illinois. Students choose to reside on campus (Evanston only) or commute. Credit bearing AP® and Honors classes are available. All courses combine classroom instruction with hands-on learning, social activity and a whole lot of fun.

## GIFTED LEARNINGLINKS (GLL)

Gifted LearningLinks offers online courses for every member of the family. The program allows bright students to set their own study pace and place. Family courses for students K through grade 2 and enrichment courses for grades 3 through 8 run year round. Students in grades 6 through 12 can take high school Honors or AP® courses for credit beginning any month. Nine-week independent study options are offered in several subject areas for students in grades 3 through 12. Gifted LearningLinks also offers extracurricular clubs. Discounts are available for school districts and homeschool groups.

## CIVIC EDUCATION PROJECT

The Civic Education Project offers award-winning leadership and civic engagement programs for outstanding high school and junior high school students. School year and summer programs combine hands-on education and community service to promote civic responsibility among young people. Students learn and serve in communities across the country, developing the knowledge, experience and leadership skills they need to make a positive impact on society.

## SATURDAY ENRICHMENT PROGRAM (SEP)

Gifted students look forward to weekend learning when they enroll in the Saturday Enrichment Program. New, multi-week sessions begin in the fall, winter and spring at four Chicagoland locations. Children in PreK through grade 9 can select from a broad range of subject areas. They pursue their chosen topic in depth through hands-on experimentation and enjoy interaction among their intellectual peers.

## ACCELERATED WEEKEND EXPERIENCE (AWE)

Older students with busy schedules appreciate the opportunity to participate in programs of short duration. These classes, for grades 5 – 8, meet over a single weekend, spanning both Saturday and Sunday. Gifted students explore a single subject with an expert in the field. AWE programs are held in various locations throughout the country.

Students associated with Center for Talent Development are afforded all privileges and held to all responsibilities of members of the Northwestern University community. Northwestern University and Center for Talent Development reserve the right to change without notice any statement in this brochure concerning, but not limited to, rules, policies, tuition, fees, courses, and faculty.

Northwestern University does not discriminate or permit discrimination by any member of its community against any individual on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, parental status, marital status, age, disability, citizenship, or veteran status in matters of admissions, employment, housing, or services or in the educational programs or activities it operates.

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**NORTHWESTERN  
UNIVERSITY**

**Spring 2012**

# Saturday Enrichment Program & Accelerated Weekend Experience

NORTHWESTERN UNIVERSITY  
CENTER FOR TALENT DEVELOPMENT  
617 Dartmouth Place  
Evanston, Illinois 60208-4175

phone 847/491-3782, extension 4

fax 847/491-3394

e-mail [sep@northwestern.edu](mailto:sep@northwestern.edu)

web [www.ctd.northwestern.edu/sep](http://www.ctd.northwestern.edu/sep)

"Talent Talk" blog [CTDblog.northwestern.edu](http://CTDblog.northwestern.edu)

facebook [www.facebook.com/CTDatNU](http://www.facebook.com/CTDatNU)

twitter [twitter@CTDatNU](http://twitter@CTDatNU)

## 4 LOCATIONS

EVANSTON: *Northwestern University Campus, Evanston, IL 60208*

NAPERVILLE: *North Central College, 31 N. Loomis, Naperville, IL 60540*

PALATINE: *Quest Academy, 500 N. Benton, Palatine, IL 60067*

CHICAGO: *The Frances Xavier Warde School, Holy Name Campus, 751 N. State St., Chicago, IL 60654*

**Spring Dates: April 14 – May 19, 2012**  
**Fall Dates: September 29 – November 17, 2012**