Center for Talent Development
Weekend Enrichment Programs
Advanced and Unique Courses for Gifted Students

Spring 2015

Course Catalog
Age 4 through Grade 9

Saturday Enrichment Program | Accelerated Weekend Experience

www.northwestern.edu/wep
847/491-3782 ext. 4
sep@northwestern.edu
awe@northwestern.edu
Weekend opportunities for discovery that allow gifted students to focus their curiosity and passion on a specific interest area. A wide variety of advanced and unique courses range in duration from a single weekend to eight consecutive Saturdays.

Register now for the spring session of our Saturday Enrichment Program (SEP). Information on the Accelerated Weekend Experience (AWE) is on page 8.

**When:**
April 11–May 16, 2015

**Where:**

- **Evanston, IL (EV)**
  Northwestern University

- **Chicago, IL (CH)**
  The Frances Xavier Warde School, Holy Name Campus, 751 N. State St.

- **NEW! Lake Bluff, IL (LB)**
  Lake Bluff Elementary School, 350 W. Washington Ave.

- **Palatine, IL (PA)**
  (Morning classes only)
  Quest Academy, 500 N. Benton St.

- **Naperville, IL (NP)**
  North Central College, 31 N. Loomis St.

A.M. Classes: 9:00 a.m.–11:30 a.m.
P.M. Classes: 12:00 p.m.–2:30 p.m.
Because the Saturday Enrichment Program:

- Offers a community of like-minded peers.
- Provides challenging accelerated courses with admissions score criteria.
- Presents opportunities to delve deeper into a single topic and to develop an advantage in one’s area of strength.
- Focuses on the whole family, offering parent education workshops that address the social-emotional development of gifted learners.

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.

Who’s eligible for SEP?
Students must be able to submit ONE of the following:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Testing through CTD*</th>
<th>Above-grade-level testing through NUMATS**</th>
<th>Grade-level, standardized test at or above the 90th National Percentile Rank in math or reading</th>
<th>Portfolio Admission with ONE teacher recommendation; most recent report card; nationally normed test scores, if available***</th>
<th>Grade-level, standardized test at or above the 95th National Percentile Rank in math or reading</th>
<th>Portfolio Admission with TWO teacher recommendations; most recent report card; nationally normed test scores, if available***</th>
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</thead>
<tbody>
<tr>
<td>Age 4–Grade 3</td>
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<td>✓</td>
<td>or</td>
<td>✓</td>
<td>or</td>
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<tr>
<td>Grades 3–9 Enrichment</td>
<td>✓</td>
<td>or</td>
<td>✓</td>
<td>or</td>
<td>✓</td>
<td>or</td>
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<tr>
<td>Honors Level</td>
<td>✓</td>
<td>or</td>
<td>or</td>
<td>✓ or ✓</td>
<td>or</td>
<td>✓</td>
</tr>
</tbody>
</table>

NOTE: Students are only placed in classes when proof of course admission criteria is submitted and tuition is paid in full.

How can families participate in SEP?

1. Confirm that your child is eligible for the program (see chart to the left). Only choose a course in a subject area for which your child qualifies and for which your child shows interest.

2. Choose a course within a grade-level band that matches your child’s current grade level. SEP courses are designed to be 1½ to 2 years above grade level. Selecting a course within your child’s grade-level band ensures placement that is both challenging yet affords your child the opportunity to learn alongside same aged peers.

3. Identify a second course in case the first choice is not available.

4. Complete ONLINE registration by visiting www.ctd.northwestern.edu/wep and choosing the Apply Now option (if needed, a paper application form is available for download).

5. E-mail all completed paper registration and/or supporting materials to sep@northwestern.edu OR

Mail paper registration and/or supporting material to 617 Dartmouth Place, Evanston, IL 60208.

* To learn more about testing for your child age 4 through Grade 3, visit: www.ctd.northwestern.edu/wep. To schedule testing, call 847/491-3782, ext. 6 or e-mail ctd-testing@northwestern.edu.

** For more information on how to apply for above-grade-level testing through NUMATS, visit: www.ctd.northwestern.edu/numats/.

*** Recommendation must demonstrate student is working at least 1½ to 2 years above grade level and must be from a current teacher knowledgeable in the content area of the course for which the child is applying. Requisite teacher recommendation form is available on our website at www.ctd.northwestern.edu/wep.
6. Acceptance notifications are sent via e-mail two to three weeks following receipt of a completed application. Please pay special attention to this notification. It will include information about student course placement and a weblink for further information on

- Program orientation and ongoing parent education seminars
- Program Policies
- Late Pickup
- Behavioral Expectations

7. Students receive a narrative evaluation of their performance as well as recommendations for future study approximately four weeks after the conclusion of a course. Grades are only assigned for high school credit-bearing courses and official transcripts are available upon written request to sep@northwestern.edu.

What else do I need to consider?

Early Bird Tuition ............................. $320
Regular Tuition (after March 29, 2015) ..................... $345

- Some courses have additional book or lab fees as described in the course description.
- Full payment must be submitted with the completed application. If applying for both a morning and afternoon session, you will be offered a $60 discount, but you must complete two separate applications. Students staying for both morning and afternoon classes at our Chicago, Naperville, and Lake Bluff sites may bring a nut-free sack lunch and will be supervised between 11:30 a.m.-12:00 p.m. (Chicago and Naperville)/12:00 p.m.-12:30 p.m. (Lake Bluff). Notify SEP staff of your child’s intention to stay for the lunch period by emailing sep@northwestern.edu.
- Paper registrations may be paid by check or money order, made payable to Northwestern University, or by credit card (Visa, MC, Discover or Diner’s Club).

Financial Aid

- Need based financial aid is available.
- Financial Aid form is available on our website at http://www.ctd.northwestern.edu/wep.
- Completed online or paper applications (including documentation of test scores, Admission Portfolio materials, and evidence of financial need, including first two pages of latest federal income tax return and a statement of need) AND payment must be received no later than March 29, 2015.
- Applicant’s initial payment is $60. This fee will be refunded if the financial aid award is not sufficient for the family.

Refund and Withdrawal Requests

- Requests must be made in writing and must be submitted to CTD via e-mail at sep@northwestern.edu or by U.S. mail by the Tuesday prior to the start of the SEP session. A $60 non-refundable processing fee will be charged for all refund and withdrawal requests.

Exciting News! We are piloting a modified SEP session in Lake Bluff this spring. Please note that for the pilot there will only be 5 sessions (April 11-May 16, with NO class April 25), and that each Saturday class will be 3 hours in duration (rather than the regular SEP 2 and a half hour class). Times for the Lake Bluff session ONLY are: 9 a.m.-12 p.m. OR 12:30-3:30 p.m. This modified session applies ONLY to the pilot.

“It was a learning experience for both of us and my son shared what he learned with such enthusiasm … very rewarding.”

— Saturday Enrichment Program parent
# SEP Courses at a Glance

## Morning Classes: 9 A.M. – 11:30 A.M.

<table>
<thead>
<tr>
<th>#</th>
<th>Grade</th>
<th>Course Title</th>
<th>Content Area</th>
<th>Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>PreK-K</td>
<td>Math All Around Us</td>
<td>Math</td>
<td>EV</td>
</tr>
<tr>
<td>02</td>
<td>PreK-K</td>
<td>Biology Blast</td>
<td>Science</td>
<td>EV, NP, PA, CH, LB</td>
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<tr>
<td>03</td>
<td>PreK-K</td>
<td>DinoMite Dig</td>
<td>Interdisciplinary</td>
<td>EV, NP, PA, CH, LB</td>
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<td>04</td>
<td>K-1</td>
<td>Sense the Sequence</td>
<td>Math</td>
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<tr>
<td>05</td>
<td>K-1</td>
<td>Entomology</td>
<td>Science</td>
<td>EV, NP, PA, CH, LB</td>
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<tr>
<td>06</td>
<td>1-2</td>
<td>Math, Music &amp; Composition</td>
<td>Math</td>
<td>EV, CH</td>
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<tr>
<td>07</td>
<td>1-2</td>
<td>Cool Chemistry</td>
<td>Science</td>
<td>EV, NP, PA, CH, LB</td>
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<tr>
<td>08</td>
<td>2-3</td>
<td>From Zero to Googolplex</td>
<td>Math</td>
<td>EV, CH</td>
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<tr>
<td>09</td>
<td>2-3</td>
<td>Mysterious Matter</td>
<td>Science</td>
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<tr>
<td>10</td>
<td>2-4</td>
<td>Programming with Scratch</td>
<td>Technology</td>
<td>EV, NP, PA, CH, LB</td>
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<tr>
<td>11</td>
<td>3-4</td>
<td>The Science Behind Superheroes</td>
<td>Science</td>
<td>EV</td>
</tr>
<tr>
<td>12</td>
<td>3-4</td>
<td>Novel Engineering</td>
<td>English &amp; Writing</td>
<td>EV, NP, PA, CH, LB</td>
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<tr>
<td>13</td>
<td>3-4</td>
<td>Design Studio: Societies &amp; Strategy in Minecraft</td>
<td>Technology</td>
<td>EV, CH</td>
</tr>
<tr>
<td>14</td>
<td>4-5</td>
<td>Pre-Algebra Prep: Data, Statistics &amp; Probability</td>
<td>Math</td>
<td>EV, NP, PA, CH, LB</td>
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<tr>
<td>15</td>
<td>4-5</td>
<td>Extinction</td>
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<tr>
<td>16</td>
<td>4-5</td>
<td>Electronics</td>
<td>Technology</td>
<td>EV, NP</td>
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<td>17</td>
<td>5-6</td>
<td>Journalism Ethics</td>
<td>English &amp; Writing</td>
<td>EV</td>
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<tr>
<td>18</td>
<td>6-8</td>
<td>Cryptography: Math &amp; Codes</td>
<td>Math</td>
<td>EV, NP</td>
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<tr>
<td>19</td>
<td>6-8</td>
<td>Environmental Emergencies</td>
<td>Science</td>
<td>EV, NP, PA</td>
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<tr>
<td>20</td>
<td>6-8</td>
<td>Integrated Math Honors</td>
<td>Math</td>
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<tr>
<td>21</td>
<td>6-8</td>
<td>Science, Engineering &amp; Technology Honors</td>
<td>Science</td>
<td>EV</td>
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<tr>
<td>22</td>
<td>7-9</td>
<td>Persuasion &amp; Debate Honors</td>
<td>English &amp; Writing</td>
<td>EV, NP</td>
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<tr>
<td>23</td>
<td>7-9</td>
<td>Survey of High School Lab Science Honors: Earth Science</td>
<td>Science</td>
<td>EV, NP</td>
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</table>

## Afternoon Classes: 12 Noon – 2:30 P.M.

<table>
<thead>
<tr>
<th>#</th>
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<tbody>
<tr>
<td>24</td>
<td>PreK-K</td>
<td>Biology Blast</td>
<td>Science</td>
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<td>25</td>
<td>PreK-K</td>
<td>DinoMite Dig</td>
<td>Interdisciplinary</td>
<td>EV, CH</td>
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<tr>
<td>26</td>
<td>K-1</td>
<td>Sense the Sequence</td>
<td>Math</td>
<td>EV, CH</td>
</tr>
<tr>
<td>27</td>
<td>K-1</td>
<td>Entomology</td>
<td>Science</td>
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</tr>
<tr>
<td>28</td>
<td>1-2</td>
<td>Math, Music &amp; Composition</td>
<td>Math</td>
<td>EV, CH</td>
</tr>
<tr>
<td>29</td>
<td>1-2</td>
<td>Cool Chemistry</td>
<td>Science</td>
<td>EV, NP, CH, LB</td>
</tr>
<tr>
<td>30</td>
<td>2-3</td>
<td>From Zero to Googolplex</td>
<td>Math</td>
<td>EV, CH</td>
</tr>
<tr>
<td>31</td>
<td>2-3</td>
<td>Mysterious Matter</td>
<td>Science</td>
<td>EV, NP, CH, LB</td>
</tr>
<tr>
<td>32</td>
<td>2-4</td>
<td>Programming with Scratch</td>
<td>Technology</td>
<td>LB</td>
</tr>
<tr>
<td>33</td>
<td>2-4</td>
<td>Programming with Scratch II</td>
<td>Technology</td>
<td>EV, NP, CH</td>
</tr>
<tr>
<td>34</td>
<td>3-4</td>
<td>The Science Behind Superheroes</td>
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<td>Novel Engineering</td>
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<tr>
<td>36</td>
<td>3-4</td>
<td>Design Studio: Societies &amp; Strategy in Minecraft</td>
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<tr>
<td>37</td>
<td>4-5</td>
<td>Pre-Algebra Prep: Data, Statistics &amp; Probability</td>
<td>Math</td>
<td>EV</td>
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<td>38</td>
<td>4-5</td>
<td>Extinction</td>
<td>Science</td>
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<td>Journalism Ethics</td>
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<td>41</td>
<td>6-8</td>
<td>Cryptography: Math &amp; Codes</td>
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<td>42</td>
<td>6-8</td>
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<td>7-9</td>
<td>Persuasion &amp; Debate Honors</td>
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<td>EV</td>
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<td>Survey of High School Lab Science Honors: Earth Science</td>
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<td>EV</td>
</tr>
</tbody>
</table>
Grades PreK-K*

Math All Around Us
Where do we find math in our daily lives?
Explore how math fits into different parts of our world, from home to sports practice and beyond. Develop an understanding of math concepts including measurement, geometry, number sense, money, time and temperature. Create original problems and apply math strategies to solve challenging problems. Through role-playing, hands-on activities and interactive games, learn just how many ways math impacts our daily lives!
SUBJECT AREA: Math
QUALIFYING SCORE: Math

Biology Blast
Why are cells the building blocks of life?
Do you know how many ways cells help living things? Explore characteristics of plant and animal life as you focus on cells, the building blocks of all living things. Learn about cell theory, evolution, homeostasis and energy while building a strong foundation in biology basics.
SUBJECT AREA: Science
QUALIFYING SCORE: Reading or Math

DinoMite Dig
How does understanding dinosaurs help us understand animals today?
Young scientists discover how paleontologists unearth answers by digging in the dirt. Work with fossils, bones and other materials, and learn what dinosaurs looked like, how they moved, what they ate, their living conditions and other fascinating facts. This interdisciplinary course includes engaging activities in the areas of language arts, geography, math and science.
SUBJECT AREA: Interdisciplinary
QUALIFYING SCORE: Reading or Math

Entomology
How do insects affect other life on earth?
Did you know that insects represent somewhere between eighty and ninety percent of all life on earth? Examine the lives and practices of insects relating to their physical designs, habitats and environmental adaptations. Through role play and experiments, young entomologists increase their understanding of the amazing creatures that thrive in our world, yet often go unnoticed.
SUBJECT AREA: Science
QUALIFYING SCORE: Reading or Math

Grades K-1*

Sense the Sequence
Why is math sometimes called “the science of patterns?”
Young mathematicians who like to manipulate numbers, solve puzzles and play math games will love this course. As you work your way up through levels of challenge, gain logical thinking skills. Exploring the patterns and computation required to solve various problems increases understanding of math facts and provides new insights into problem solving strategies.
SUBJECT AREA: Math
QUALIFYING SCORE: Math

Grades 1-2*

Math, Music & Composition
How does math create beautiful music?
Explore fortissimo fractions in this arts-integrated math course. Math and music are deeply connected, from how notes are organized in beats and measures, to the way music reaches our ears and mind. Discover math in a diverse array of music through listening labs, compose music on traditional and innovative instruments, and learn how critical math is to musical notation and composition.
SUBJECT AREA: Math
QUALIFYING SCORE: Math

* NOTE: SEP does not recommend that children grade 1 and under take both morning and afternoon sessions.

Creative Studies Course — Rigorous arts-integrated courses that extend learning in math, science and language arts.
Cool Chemistry
What chemical reactions occur in everyday life?
Future chemists investigate chemical reactions, the formation of polymers, pH and chemical solutions. Observe, hypothesize, record and analyze data as you perform experiments that prove how hot some cool chemical reactions can be!
SUBJECT AREA: Science
QUALIFYING SCORE: Reading or Math

Grades 2–3
From Zero to Googolplex
What are some ways that very large and very small numbers can be expressed, ordered and compared?
If your dog were the size of a dinosaur, how much dog food would he need each day? In this course, explore numbers from the miniscule to the unimaginably large. Learn how to express numbers to explain phenomena including time, distance and temperature. Hands-on activities help participants develop an understanding of the scope and scale of numbers.
SUBJECT AREA: Math
QUALIFYING SCORE: Math

Mysterious Matter
Are there more than three states of matter?
Are solids, liquids and gases really the only states of matter? What about plasmas and liquid crystals? Students explore the small world of ions, atoms and molecules. Through investigation, modeling, and experimentation, they discover what makes the science of matter so compelling. Join other future scientists to explore the increasingly complex world of matter.
SUBJECT AREA: Science
QUALIFYING SCORE: Reading or Math

Grades 2–4
Programming with Scratch
How can we write programs that both humans and computers can understand?
Learn how the computer games you love are made and create original animations, games and digital stories using Scratch, a graphical programming language designed for students. Apply advanced mathematics and computational concepts as you build integrative problem-solving skills. Join a global community of Scratch programmers for ongoing collaborative learning and skill development. No formal programming experience is necessary. This course helps prepare students for future computer science courses like Raspberry Pi.
SUBJECT AREA: Science
QUALIFYING SCORE: Reading or Math

Programming with Scratch II
Prerequisite: Programming with Scratch taken with CTD
Using the skills attained in Programming with Scratch, create more complex digital stories and more sophisticated games and animations while developing new proficiencies in the process.
SUBJECT AREA: Technology
QUALIFYING SCORE: Reading or Math

Grades 3–4
Novel Engineering 😊
How do we visualize worlds in literature?
Could you draw a Quidditch field? Or, design the home of the shipwrecked Swiss Family Robinson? In this arts-integrated course, read excerpts from novels and then flesh out or design an environment not yet visualized. Adventure, mystery, fantasy and historical fiction inspire story development and interpretation. Write and design your own engineering adventure.
SUBJECT AREA: English & Writing
QUALIFYING SCORE: Reading

The Science Behind Superheroes
What superpowers are found in nature?
It’s a bird… it’s a plane… it’s the science behind popular superheroes! Relate scientific principles to superheroes’ powers by exploring how gravity, friction, magnetism, light and biological processes explain these powers. Discover where these “superpowers” already exist in nature, and which ones are imagined. Combine science with creative thought to design your own superhero.
SUBJECT AREA: Science
QUALIFYING SCORE: Reading or Math

Design Studio: Societies & Strategy in Minecraft 😊
What kinds of societies can we build in Minecraft?
Societies in Minecraft are unique, complicated and in constant flux, just like societies in real life. Analyze and explore societal structures in Minecraft, and build new societies with peers. Explore the consequences of developing economies and justice systems from scratch. These lively, hands-on studios encourage collaboration, invention and student-centered learning. Previous Minecraft experience is helpful, but not necessary.
SUBJECT AREA: Technology
QUALIFYING SCORE: Reading or Math
**Grades 4-5**

**Pre-Algebra Preparation: Data, Statistics & Probability**

*What kinds of problems can be solved with data analysis?*

Linked to the Common Core State Standards, this pre-algebra preparation series incorporates three courses offered sequentially in the fall, winter and spring. Students may participate in any or all of these courses beginning in any session. Completion of the entire series prepares students for Pre-Algebra. Through exploration, practice and application, students develop skills to deepen their understanding of mathematical ideas and apply them to real world settings.

**FALL:** Numbers & Algebraic Thinking  
**WINTER:** Geometry & Measurement  
**SPRING:** Data, Statistics & Probability  
**SUBJECT AREA:** Math  
**QUALIFYING SCORE:** Math

**Extinction**

*Are extinctions a natural and necessary occurrence on earth?*

More than 90% of all organisms that have ever lived on earth are extinct. New species are constantly evolving while others are disappearing. What causes mass extinctions throughout earth’s history? Are humans responsible for the endangering of species that are presently on earth? Investigate and discover the ecological impacts of extinction, how species have adapted over time, and the ethical issues surrounding whether or not man should intervene.

**SUBJECT AREA:** Science  
**QUALIFYING SCORE:** Reading or Math

**Electronics**

*How can voltage, current and resistance be described, compared and used?*

Discover your “inner inventor” and learn the principles of electronics by constructing electrical gadgets. Explore how components connect to make complete circuits. Breadboards, basic sensors and circuits are used to manipulate sound, lights and motion with a variety of technologies such as Raspberry Pi and Arduino. Examine ways we can improve upon electronics for the future. Note: Additional $45 lab fee required.

**SUBJECT AREA:** Technology  
**QUALIFYING SCORE:** Math

**Grades 5-6**

**Journalism Ethics**

*How can journalists be accountable to their readers, listeners, viewers and each other?*

The Society of Professional Journalists’ “Code of Ethics” states that journalists “should be honest, fair and courageous in gathering, reporting and interpreting information.” Examine journalistic practices and how they have transformed over time, influencing the way we get our daily news. Gather relevant information from multiple print and digital sources to craft your own news story. Assess the credibility and accuracy of your sources and quote or paraphrase the data and conclusions of others while avoiding plagiarism. Learn the ethical practices journalists should follow and debate their merits.

**SUBJECT AREA:** English & Writing  
**QUALIFYING SCORE:** Reading

**Grades 6-8**

**Cryptography: Math & Codes**

*How are math concepts used in codes? Do you know how to keep digital information safe?* With historic origins in military operations, modern cryptography involves concepts and skills learned from mathematics, computer science and even electrical engineering. Discover what the origins of encoding in scytale and stenography teach us about securing computer passwords or credit card accounts today. Debate legal issues surrounding privacy and security, and understand the way cryptography is used now to solve the unique set of challenges faced by the information age. Decode the projects of others and create new original encryptions using algorithms and critical thinking skills specific to the 21st century.

**SUBJECT AREA:** Math  
**QUALIFYING SCORE:** Math

**Environmental Emergencies**

*How can we better prepare for natural disasters?*

Did you know that floods are one of the most common natural disasters in our country? Severe weather, along with earthquakes, droughts and wildfires all cause significant damage in the U.S. every year. How can we prevent future loss of life and property? Investigate the causes of these disasters and how the Federal Emergency Management Agency (FEMA) responds to events. Analyze historical natural disasters and suggest prevention strategies and actions to reduce devastation in the future.

**SUBJECT AREA:** Science  
**QUALIFYING SCORE:** Reading or Math
HIGH SCHOOL CREDIT COURSES

Within the last two years, 95th percentile scores on a grade-level, standardized test required for all SEP honors courses OR the following above-grade-level scores in the appropriate subject area:

ACT-R 19 | SAT-CR 440
ACT-M 18 | EXP-R 14
ACT-Sc 18 | EXP-M 15
SAT-M 460 | EXP-Sc 16

• Complete all 3 sessions to receive 2 semesters of high school credit.
• May be taken over a two-year time span.
• Consistent class attendance and 4–5 hours of homework per week is expected.
• Acceptance of credits by student’s school depends on that school’s institutional policy.
• Discuss credit acceptance with appropriate school counselor before applying.
• Student may take any or all courses for enrichment only.

Grades 6-8

Integrated Math Honors
How is logic used in mathematics?
All strands of mathematics are covered during the year: Numbers, Properties and Operations, Geometry and Spatial Sense, Measurement, Data Analysis, Probability and Statistics and Algebra and Functions.

FALL: Quantities, Equations & Inequalities, Functions
WINTER: Sequences, Functions, Data Analysis, Correlations, Modeling
SPRING: Geometry & Logic

NOTES:
• Recommended that the Integrated Math Honors be taken in sequence, beginning with the fall.
• Additional $20 textbook fee.
SUBJECT AREA: Math
QUALIFYING SCORE: Math

Science, Engineering & Technology Honors
How can science and engineering be used to solve society’s challenges?
Based on the Next Generation Science Standards, this course engages students in engineering practices across the various disciplines. Plan and carry out investigations, analyze and interpret data, construct explanations and design solutions for society’s challenges. Develop and use models, support explanations through evidence, and practice communicating scientific information. Apply real-world research and scientific inquiry to gain the skills necessary to be successful in advanced high school science courses. Example projects may include designing a prosthetic limb, cleaning up an oil spill, testing landfill designs and constructing bridges.

FALL: Life Science & Medicine
WINTER: Physical Science & Civil Engineering
SPRING: Earth & Environmental Science
NOTE:
• Additional $25 materials fee.
SUBJECT AREA: Science
QUALIFYING SCORE: Reading or Math

Grades 7-9

Persuasion & Debate Honors
What makes some arguments more effective than others?
Learn principles and practices of communication. Preparation and presentation, body language, the vocal mechanism and the debate process are covered, along with active listening skills. Debate techniques grounded

Survey of High School Lab Science Honors: Earth Science
How and why is the earth changing? What is the importance of the earth’s resources?
Relate academic lab work to current global and local issues while studying concepts in geology, geophysics, oceanography and soil science.

FALL: Biology
WINTER: Chemistry
SPRING: Earth Science
NOTE:
• This course may be counted as a lab science for applications to IMSA.
• Additional $120 lab fee required.
SUBJECT AREA: Science
QUALIFYING SCORE: Reading AND Math

“SEP broadened my son’s exposure to new topics in a fun way that kept him interested and active.”
— Saturday Enrichment Program parent
Why participate in the Accelerated Weekend Experience (AWE)?

AWE offers weekend-long experiences, hosted at community sites across the country. Unique courses connect students with practicing professionals. Join experts in the field for a real-life perspective on topics, such as Alice 3D Programming, Cognitive Neuroscience, Aviation, Cryptography, Digital Imaging, Forensic Science, Marine Biology, Veterinary Science and more. Programs run Saturdays and Sundays, 9:00 a.m.–2:30 p.m.

Academically talented middle school students want and need:

- Career exploration with a professional practicing in the field.
- Exposure to career paths in their area of interest.
- A community of like-minded peers.
- Opportunities to delve deeper into a single topic and to develop an advantage in their area of strength.
- Short, intensive, one-weekend-long, supplemental, academic experiences that fit in with their busy schedules.
- Top-notch academic offerings organized by Northwestern University and hosted in a school located in local neighborhoods.

Who’s eligible for AWE?

- Students who score at the 90th percentile or above on a grade-level, standardized test OR
- Students with above-grade-level test scores through NUMATS OR
- Students who submit a portfolio with ONE teacher recommendation, most recent report card, and nationally normed test scores, if available. Download requisite form on our website.

How do I participate in AWE?

For a current listing of AWE offerings and to register for AWE, visit www.ctd.northwestern.edu/wep and visit the AWE page. Remember to check frequently for updates.

What else do I need to consider?

Tuition ......................................... $245

1. Apply by 5 p.m. Central Time on the Monday before session starts.

2. If you apply for both SEP and AWE, you will be offered a $60 discount.

Limited financial aid is available on a first-come, first-served basis.

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Center for Talent Development, Northwestern University

Dynamic Pathways for Gifted Learners

The Center for Talent Development at Northwestern University is dedicated to helping gifted students, age 4 through grade 12, reach full potential. We provide research-based assessment, advanced programs and resources to enhance a child’s schooling. Our signature approach to talent development delivers personalized options and guidance for young people with high ability. Program pathways lead students on a journey of intellectual, emotional and social growth. By extending support to families and educators, we help exceptional students discover their unique voice, explore opportunities, cultivate a love of learning and become bold, creative achievers and contributors.

Northwestern University’s Midwest Academic Talent Search (NUMATS)
The foundation for a lifelong journey of achievement and fulfillment. Research-based assessments identify exceptional academic ability and connect students to tailored programs and opportunities. Parents and educators gain invaluable information to create challenging, dynamic pathways that nurture individual potential.

Gifted LearningLinks
Individualized pathways through online learning that expand access to advanced subject matter and foster personal interests. Motivated students progress at the time, place and pace right for them and enjoy one-on-one engagement with instructors.

Weekend Enrichment Programs
Weekend opportunities for discovery that allow gifted students to focus their curiosity and passion on a specific interest area. A wide variety of advanced and unique courses range in duration from a single weekend to eight consecutive Saturdays.

Summer Program
Rigorous, academic adventures with life-changing impact that allow gifted students to delve deep into a subject of intrigue, build upon their strengths and connect with a community of peers.

Civic Education Project
Pathway to leadership and civic engagement that combines service learning with academic study and reflection. Bright, impassioned students engage in social issues first-hand and develop skills to change the world.

National Association for Gifted Children
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.nagc.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.

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.

CTD students are expected to act with honesty and personal integrity in all 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” may include grade reduction and failure (for credit-bearing courses) or program dismissal.

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 any inappropriate content, please notify CTD staff immediately.

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.
Weekend Enrichment Programs
Advanced and Unique Courses for Gifted Students

Spring 2015 Dates
April 11–May 16, 2015

APPLICATION NOW OPEN!

Mark Your Calendar for Next Year’s SEP Dates

Fall Dates
October 3–November 21, 2015
(scheduled snow day December 5)

Winter Dates
January 16–March 5, 2016
(scheduled snow day March 12)

Spring Dates
April 16–May 21, 2016

Be sure to check out the courses for our pilot program in Lake Bluff!