

JOIN US!

# TIGER WOODS LEARNING CENTER

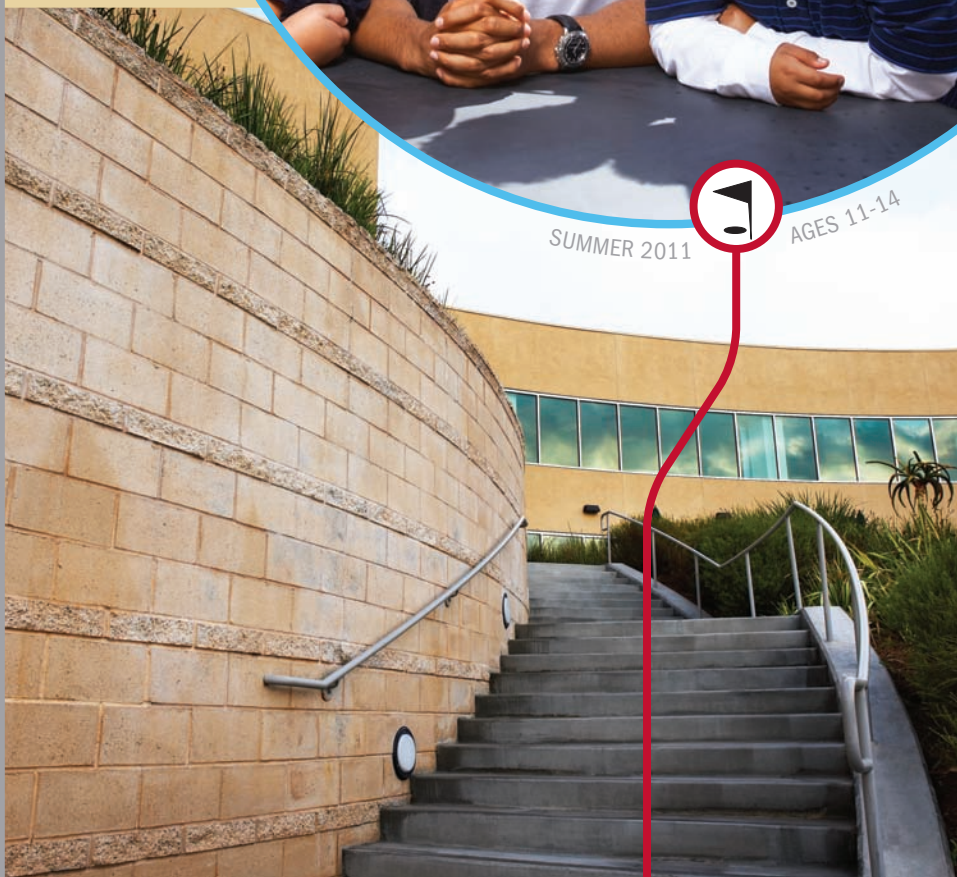
# SUMMER ACADEMY



GOLF  
SCIENCE  
TECHNOLOGY  
ENGINEERING  
MATH



SUMMER 2011 AGES 11-14



## **THE TIGER WOODS LEARNING CENTER**

*(TWLC) is a spectacular 14-acre education facility in Southern California that has delivered hands-on, authentic learning experiences for more than 50,000 young people since 2006. Our programs are technology-rich, innovative and highly motivating. Our students are imaginative, engaged and planning their paths to college and a career.*

*Whether you're a budding scientist, a beginning golfer or a future engineer, the Summer Academy has an exciting program for you. The Academy provides an unparalleled learning experience for young people, ages 11-14. Taught by year-round, full-time instructors, the innovative TWLC curriculum blends the highest-quality academics with authentic, real-world learning. From the most advanced robotics lessons to beginning golf, the TWLC philosophy revolves around hands-on learning and project-based experiences.*

*Split into two week-long academies, summer at the Tiger Woods Learning Center focuses on STEM (Science, Engineering, Technology and Math); and Golf for the beginning player. Our flexible curriculum allows students to move along at their own pace with customized lessons for a fun and appropriate challenge.*

### **TOP REASONS TO ATTEND!**

- A TECHNOLOGY-RICH, UNIQUE FACILITY THAT SPANS 14 ACRES IN SOUTHERN CALIFORNIA
- AUTHENTIC EXPERIENTIAL LEARNING FROM YEAR-ROUND, ACCREDITED INSTRUCTORS
- PROVEN HISTORY OF SUCCESS WITH MORE THAN 50,000 TWLC MEMBERS AND ALUMNI
- LEARN THROUGH HANDS-ON PROJECTS & TECHNOLOGY RATHER THAN TEXTBOOKS AND LECTURES

**TWLC SUMMER ACADEMY.ORG**

# STEM ACADEMY

*The STEM Academy at the Tiger Woods Learning Center is an exceptional learning experience. Our innovative approach emphasizes hands-on experiments, goal setting, college admission, career exploration and positive youth development. All STEM Academy members will receive 15 hours of STEM instruction along with three enrichment workshops for the week. Members select a desired Major from the four subjects listed below.*

## **STEM MAJORS:**



### **COMPARATIVE ZOOLOGY**

Dive into the Animal Kingdom and explore the psychology and physiology of bugs, reptiles, amphibians and mammals at a molecular and anatomical level. In this intensive biology class, you will investigate the digestive, cardiovascular, circulatory and excretory systems of animals while identifying the physiological differences of each species. Explore first-hand the exciting life of an expert biologist through hands-on experiments that include the dissection of various creatures.



### **RESOURCEFUL ROBOTICS**

Learn cutting-edge robotics engineering techniques by building and programming four different robots that can be operated independently or in competition with another robot. You will learn to program with electronic circuit schematics, block diagrams, infrared rays, photo diodes, sensors, gear drives and more. Experiment with mechanical design and explore renewable energy sources to create the most efficient robots. Become proficient in LabVIEW G programming language, which is used by engineers and scientists today. This program uses intuitive graphical icons and wires that resemble a flowchart.



### **VELOCITY VEHICLES**

There's more to a vehicle than meets the eye. In this class, you will put your engineering skills to the test by designing and constructing a variety of different vehicles powered by sun, air, magnets and an ordinary mousetrap. Learn how potential energy converts into kinetic energy to accelerate your vehicles. Take your mechanical engineering skills to the next level by applying tension, friction, torque, inertia and Newton's Law. After you build your velocity racers, take them home to share with family and friends.



### **VIDEO GAME DESIGN**

Develop your very own video game using Clickteam Multimedia Fusion 2 Developer. In this class, you will learn basic programming logic to create special power-ups, unique character abilities and challenging levels. Customize 2D graphics in your game and learn tools in Adobe Photoshop to enhance images and text. Best of all, you'll be able to take your game home with you to amaze your family and friends.



### ***ENRICHMENT WORKSHOPS:***

#### ***DIGITAL PHOTOGRAPHY & PHOTOSHOP***

Interested in expressing your creative side? This three hour workshop will introduce you to the world of digital graphic design using Adobe Photoshop. With a picture taken from a D-SLR camera, you will learn how to enhance and create effects using the powerful tools provided in this software. These basic tools will open up a whole new world of photo-editing fun.

#### ***ROCKETRY***

Transform an empty plastic bottle into a high-flying rocket using scientific principles such as Newton's Law, acceleration, thrust and inertia. You'll participate in an actual rocket launch and competition to see whose design flies the highest.

#### ***ALTERNATIVE ENERGY***

Build a solar station and a wind turbine while learning about renewable energy sources and how these devices can capture electrical energy. This workshop will explore options for renewing energy and challenge you to make green choices. Start thinking green.

#### ***COMPARATIVE MARINE LIFE***

Ever wonder how a fish breathes underwater? Or how a giant squid swims? Answer these and other questions as you take a closer look at marine life. Come learn about the amazing creatures of the sea as you make your first incisions into the anatomy of these aquatic animals.

#### ***BEGINNING GOLF***

This workshop will give you the skills and know-how needed to become comfortable with the game of golf. You will learn all the basics: putting, chipping, pitching and driving at a world-class instructional facility designed by Tom Fazio. Using the best in Nike equipment, our teaching professionals will cover posture, alignment and controlling ball distance.

### ***ACADEMY DATES***

June 19 - June 24

June 26 - July 1

July 10 - July 15

August 7 - August 12

### ***RESIDENTIAL LOCATION***

Chapman University

Chapman University

California State University, Fullerton

Irvine Regional Outdoor Education Center

### ***OVERNIGHT ACADEMY:***

Depending on your week of stay at the Summer Academy, you can either experience the best of college life or enjoy the ultimate gateway to the great outdoors. The TWLC Summer Academy offers two options throughout the summer for residential stay. These options run Sunday 2:00 p.m. through Friday 1:00 p.m. and include all meals (breakfast, lunch and dinner).

### ***DAY ACADEMY:***

For those located near the Anaheim, California facility, the Day Academy option is open from 9:00 a.m. - 4:00 p.m. Monday through Thursday, and 9:00 a.m. - 1:00 p.m. on Friday, and includes instruction, enrichment activities and one all-day excursion. Lunch can be purchased for an additional \$50 per week.

### ***PRICING & REGISTRATION:***

\$1495 Overnight Academy / \$895 Day Academy

\$150 Early registration discount for applications received by March 1. Visit us online at [TWLCSummerAcademy.org](http://TWLCSummerAcademy.org) or call (714) 765-8000 to secure your spot today. Space is limited.

### ***ATTENDING WITH A FRIEND?***

You can request him/her as your roommate when you register.



# SPECIAL ACTIVITIES:

## *DISNEYLAND EXCURSION*

Your week at the Tiger Woods Learning Center Summer Academy also includes an all-day trip to Disneyland. In addition to enjoying the wonders of this landmark theme park, this day trip includes a hands-on three hour Disney's World of Physics workshop. During this unique experience, you'll explore the physics behind high speed roller coasters such as California Screamin', or get an up-close look into how the energy of light and sound come together through It's Tough to Be a Bug 3D and The Twilight Zone Tower of Terror™ attractions.

## *FRIDAY FAMILY & COMMUNITY SHOWCASE*

We cordially invite family and friends to our Family and Community Showcase from 12:00 p.m. to 1:00 p.m. each Friday. Guests can tour the facility and classrooms, meet staff and view student projects. This is an opportunity for participants to showcase what they learned during their time at the TWLC Summer Academy.

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## **THE STAFF**

The TWLC employs exceptional staff with experience, expertise and dedication to youth. The TWLC staff is engaged year round in hands-on, project based instruction. They have a passion for working with young people and helping them see the connection between school and real world application. The TWLC Summer Academy encourages staff to create a unique learning environment for youth to share ideas and build supportive relationships. The staff provides a compassionate and creative atmosphere that fosters each youth's positive self-image, admiration for learning and opportunities for growth.

- STAFF MUST PASS A RIGOROUS SCREENING THAT INCLUDES FINGERPRINTING, HEALTH SCREENINGS AND BACKGROUND CHECKS.
- STAFF HAVE CPR AND FIRST AID CERTIFICATION.
- STAFF INCLUDES CREDENTIALLED TEACHERS, EDUCATION PROFESSIONALS AND EXPERTS IN A VARIETY OF YOUTH DEVELOPMENT PROGRAMS.
- ONGOING STAFF DEVELOPMENT, BIMONTHLY MEETINGS AND STAFF TRAINING ENSURE THAT EMPLOYEES ARE KNOWLEDGEABLE IN THE MOST CURRENT YOUTH TRENDS AND PRACTICES, INTEGRATED TECHNOLOGY INSTRUCTION, COLLEGE ADMISSION PROCEDURES AND INSTRUCTIONAL BEST PRACTICES.

## **TRAVEL INFORMATION FOR OVERNIGHT ACADEMY**

All programs require parents to complete a transportation form to indicate how their child will be arriving and departing from the Summer Academy. Transportation forms are sent in the Welcome Packet after registration is confirmed. Parents who will be dropping off their child will need to do so at the residential location. For children who will be flying, please make arrangements to fly into Orange County/John Wayne Airport (SNA). TWLC staff will greet the Summer Academy students at the airport and shuttle them to the residential location.



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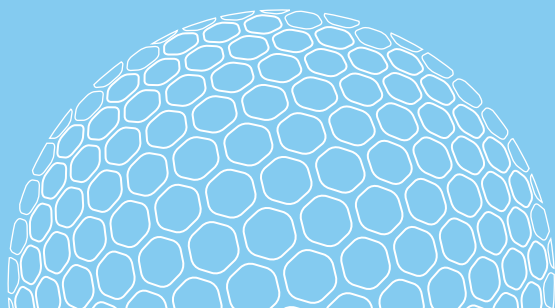
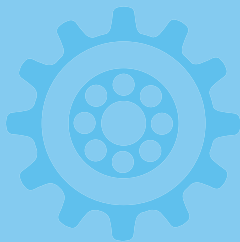
## *GOLF ACADEMY*

*The Golf Academy at the Tiger Woods Learning Center provides the beginning golfer with a world-class golf experience. Taught by full-time Tiger Woods Learning Center golf instructors and PGA teaching professionals, the Golf Academy will teach you the basics crucial to the success of professionals like Tiger Woods: grip, stance, posture, alignment and controlling ball distance. Like Tiger, our instructors believe there are thousands of ways to swing a club, but the best golfers must first master the basics. Our instructors specialize in working with thousands of young golfers each year.*

Our teaching professionals assess your posture and grip within seconds and work with you to make changes and improvements along the way. Our unique approach provides you with the tools needed to talk, act and play like a champion in addition to the skills of putting, chipping, pitching, sand play and driving a golf ball.

Adding to the Tiger Woods Learning Center experience is our exceptional practice facility. Designed by legendary international architect Tom Fazio, our 14-acre driving range, target greens and 18-hole putting course provide a truly one-of-a-kind learning environment. You will also utilize the best in Nike Golf equipment and digital video swing analysis during your time at the Golf Academy.

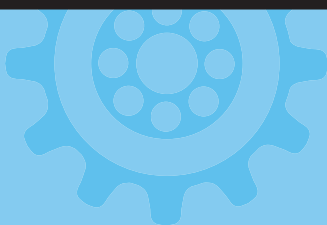




***SECURE YOUR SPOT AT  
SUMMER ACADEMY TODAY!***

**ENROLL AT [TWLCSUMMERACADEMY.ORG](http://TWLCSUMMERACADEMY.ORG)**

**OR CALL (714) 765-8000**



***ENRICHMENT WORKSHOPS:***

***GOLF FITNESS***

Learn the importance of developing a physical conditioning routine to enhance your game. Physical conditioning improves aspects of the body that can affect performance. Learn stretching techniques and exercises to increase flexibility and range of motion for better performance, on and off the course.

***VIDEO SWING ANALYSIS***

Further improve your game by analyzing your personal swing digitally. The Golf Academy uses the latest swing analysis software to help you understand your own personal swing plane and spine angle, and compare your golf swing to the Pros.

***CLUBMAKING WORKSHOP***

In this Golf Academy workshop, you will learn how to build and craft a golf club. Using professional techniques in math and science, you will explore how loft affects ball flight to make your own club. Best of all, your personally designed club becomes yours to keep.



**TIGER WOODS**  
**LEARNING CENTER**

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