

## Stanford University Programs for Minors

(as of 5/8/12, compiled from SU Office of Science Outreach webpages <http://oso.stanford.edu/programs>)

This list is not all inclusive of all possible programs hosting minors

For questions, please see the contact information for each program.

Program	Participants	Activities
<p><b>1. Clinical Anatomy Research Scholars (CARS)</b></p> <p>Host: School of Medicine            Contact: <a href="mailto:anatomy@stanford.edu">anatomy@stanford.edu</a>            Website: <a href="http://anatomy.stanford.edu/scholars.html">http://anatomy.stanford.edu/scholars.html</a>            Duration: 8 weeks</p>	Contact program for more information.	Students conduct laboratory research in a wide variety of disciplines, including medicine, surgical simulation, robotics, and the study of athletics. Students participate in field trips and guest presentations and are exposed to innovative technologies, world-class research facilities, and research projects.
<p><b>2. Cutting Edge of Human Anatomy and Surgical Education</b></p> <p>Host: School of Medicine            Contact: <a href="mailto:anatomy@stanford.edu">anatomy@stanford.edu</a>            Website: <a href="http://anatomy.stanford.edu/summer.html">http://anatomy.stanford.edu/summer.html</a>            Duration: 1 week</p>	Contact program for more information.	Course participants will have the opportunity to view and interact with a range of technologies presented by the faculty who teach with them at Stanford. Anticipated activities include: virtual dissection table, 3D stereoscopic photos and digital models; surgical and emergency medical care simulations; haptics and robotics labs; prosthetic and medical device design labs
<p><b>3. Discover Stanford</b></p> <p>Host: Visitor Information Services            Contact: <a href="mailto:visitorinfo@stanford.edu">visitorinfo@stanford.edu</a>            Website: <a href="http://www.stanford.edu/dept/visitorinfo/tours/">http://www.stanford.edu/dept/visitorinfo/tours/</a>            Duration: 2-2.5 hours</p>	High school juniors and seniors	Admission information session and campus walking tour
<p><b>4. Earth Sciences High School Internship Program</b></p> <p>Host: Earth Sciences Department            Contact: Jennifer Saltzman, <a href="mailto:saltzman@stanford.edu">saltzman@stanford.edu</a>,            650-725-2410            Website: <a href="http://pangea.stanford.edu/academics/outreach-programs/k12-programs/high-school-internships">http://pangea.stanford.edu/academics/outreach-programs/k12-programs/high-school-internships</a>            Duration: 8-10 weeks/15-30 hours a week (Summer)</p>	<p>Students who have completed one year of high school.</p> <p>Must be at least 18 to work in a lab with chemicals.</p> <p>15-25 participants</p> <p>Internship is unpaid</p>	Participate in research projects in different laboratories. Direct supervision by graduate students, postdocs, and lab managers.
<p><b>5. Education Program for Gifted Youth (EPGY):            Online High School, Summer Session</b></p> <p>Host: Multiple campus locations            Contact: Christine Parker, <a href="mailto:csparker@stanford.edu">csparker@stanford.edu</a>,</p>	<p>Ages 10-18</p> <p>76 participants</p>	Students take courses that supplement the academic year curriculum, including labs in AP Physics, Honors and AP Chemistry, and AP Biology, as well as a mathematics, computer science, English, and social science courses. In the science labs, students work in Stanford laboratory facilities to conduct experiments

650-721-9377 Website: <a href="http://epgy.stanford.edu/ohs/ohsummer.html">http://epgy.stanford.edu/ohs/ohsummer.html</a> Duration: 2 weeks		related to concepts they covered in their courses during the academic year.
<b>6. Education Program for Gifted Youth (EPGY): Summer Institutes</b>  Host: Multiple campus locations Contact: Christine Parker, <a href="mailto:csparker@stanford.edu">csparker@stanford.edu</a> , 650-721-9377 Website: <a href="http://epgy.stanford.edu/summer/">http://epgy.stanford.edu/summer/</a> Duration: <ul style="list-style-type: none"> <li>• 3-4 weeks/residential program (High school)</li> <li>• Three 2-week sessions/residential program (Middle school)</li> </ul>	High school: <ul style="list-style-type: none"> <li>• Ages 13-17</li> <li>• 1034 participants</li> </ul> Middle school: <ul style="list-style-type: none"> <li>• Ages 11-13</li> <li>• 269 participants</li> </ul>	High school subject areas include: arts and humanities, business, computer science, engineering, legal studies, mathematics, social science, physical and biological science, and writing. Instructors are assisted by undergraduate and graduate student mentors who have expertise in the course subject areas.
<b>7. Educational Studies Program/Splash!</b>  Host: Multiple campus locations Contact: <a href="mailto:stanfordesp@gmail.com">stanfordesp@gmail.com</a> Website: <a href="http://www.stanfordesp.org/">http://www.stanfordesp.org/</a> Duration: 2 days	Ages 11-18  # Participants: <ul style="list-style-type: none"> <li>• 1100 (Fall)</li> <li>• 1400 (Spring)</li> </ul>	Includes academic and non-academic classes from cookie baking and origami to complicated and challenging classes on machine theory or quantum mechanics. Classes are taught Stanford undergraduate and graduate students and other community members.
<b>8. Geokids for First and Second Graders</b>  Host: Earth Sciences Department Contact: Jennifer Saltzman, <a href="mailto:saltzman@stanford.edu">saltzman@stanford.edu</a> , 650-725-2410 Website: <a href="http://pangea.stanford.edu/academics/outreach-programs/k12-programs/geokids">http://pangea.stanford.edu/academics/outreach-programs/k12-programs/geokids</a> Duration: 2.25 hours/1 day a week (Spring, Fall)	Grades 1-2  900 participants	Introduction to the work of a geologist with hands-on educational activities focusing on minerals, rocks, fossils, and soil. Activities are led by undergraduate and graduate students.
<b>9. High School and Pre-medical Student Stanford Summer Internship</b>  Host: School of Medicine Contact: Dr. Paul Chang, <a href="mailto:pc1@stanford.edu">pc1@stanford.edu</a> , 650-725-0298 Website: <a href="http://sssec.stanford.edu/summer_internship.html">http://sssec.stanford.edu/summer_internship.html</a> Duration: 4 weeks. Supplemental 2-4 week lab session for qualifying students.	High school and pre-medical students  15 participants  Internship is unpaid	To educate high school and pre-medical students considering careers in science, medicine, and public health in basic and advanced cardiovascular anatomy and physiology, as well as medical and surgical techniques that will be utilized in pre-medical and medical school.
<b>10. Hopkins Marine Station</b>  Host: Hopkins Marine Station Contact: Judy Thompson, <a href="mailto:judyt@stanford.edu">judyt@stanford.edu</a> , 831-655-6249;	Ages 16-18  Internship is unpaid	Hopkins Marine Station is located 90 miles from the main Stanford University campus and was founded in 1892 as the first marine laboratory on the west coast of North America. Faculty occasionally accept local junior and senior high school level students for

Chris Patton, <a href="mailto:cpatton@stanford.edu">cpatton@stanford.edu</a> , 831-655-6216 <i>Website:</i> <a href="http://www-marine.stanford.edu/index.html">http://www-marine.stanford.edu/index.html</a> <i>Duration:</i> Varies		internships coordinated through their schools.
<b>11. Human Anatomy From Head to Toe</b>  <i>Host:</i> School of Medicine <i>Contact:</i> <a href="mailto:anatomy@stanford.edu">anatomy@stanford.edu</a> <i>Website:</i> <a href="http://oso.stanford.edu/programs/107-human-anatomy-from-head-to-toe">http://oso.stanford.edu/programs/107-human-anatomy-from-head-to-toe</a> <i>Duration:</i> 1 week	Contact program for more information.	This introductory course covers the basics of human anatomy and biomechanics for each region of the body (upper and lower limb, head and neck, thorax, abdomen, pelvis, and back). Students will engage with the latest 3D multimedia educational software as well as human cadaver specimens in the dissection lab.
<b>12. Jasper Ridge Biological Preserve</b>  <i>Host:</i> Jasper Ridge Biological Preserve <i>Contact:</i> Philippe Cohen, <a href="mailto:philippe.cohen@stanford.edu">philippe.cohen@stanford.edu</a> , 650-851-6814; Nona Chiariello, <a href="mailto:nonajrbp@stanford.edu">nonajrbp@stanford.edu</a> , 650-224-3778; Cindy Wilber, <a href="mailto:cwilber@stanford.edu">cwilber@stanford.edu</a> , 650-327-2277 <i>Website:</i> <a href="http://jrbp.stanford.edu/">http://jrbp.stanford.edu/</a> <i>Duration:</i> Varies	Ages 16-18  Internship is unpaid	Jasper Ridge Biological Preserve is located near Stanford University's campus in the eastern foothills of the Santa Cruz Mountains. The preserve provides a natural laboratory for researchers from all over the world, educational experiences to students and docent-led visitors, and refuge to native plants and animals. Minors may participate in research at Jasper Ridge as part of an authorized research project led by a Stanford University or university-affiliated principal investigator.
<b>13. LEAD Engineering &amp; Computer Science Institutes</b>  <i>Host:</i> School of Engineering <i>Contact:</i> <a href="mailto:info@leadprogram.org">info@leadprogram.org</a> <i>Website:</i> <a href="http://www.leadprogram.org/programs/engineering/">http://www.leadprogram.org/programs/engineering/</a> <i>Duration:</i> 3 weeks/residential program	Grades 9-11  # Participants: • 30 (9 <sup>th</sup> grade) • 30 (10 <sup>th</sup> , 11 <sup>th</sup> grade)	Offers high school students the opportunity to explore Science, Technology, Engineering, and Math (STEM) careers to empower them to make better informed decisions when choosing their university and career through exposure to various fields of engineering including mechanical, chemical, biomedical, civil and environmental, electrical, and computer.
<b>14. Med School 101</b>  <i>Host:</i> School of Medicine <i>Contact:</i> Michelle Brandt, <a href="mailto:mbrandt@stanford.edu">mbrandt@stanford.edu</a> , 650-723-0272 <i>Website:</i> <a href="http://mednews.stanford.edu/medschool101/">http://mednews.stanford.edu/medschool101/</a> <i>Duration:</i> 1 day	Ages 14-17	High school students visit the Stanford Medical School with their teachers and participate in an array of faculty talks, lab tours, and hands-on activities
<b>15. Public Lectures and Events</b>  <i>Host:</i> Multiple campus locations <i>Contact:</i> Kaye Storm, <a href="mailto:kstorm@stanford.edu">kstorm@stanford.edu</a> , 650-724-4332 <i>Website:</i> <a href="http://oso.stanford.edu/lectures.html">http://oso.stanford.edu/lectures.html</a> <i>Duration:</i> Variable	General public	Free lectures on science and engineering topics by Stanford's top researchers in terms understandable to the lay public. Examples include the SLAC Lecture Series and the Summer Science Lecture Series.
<b>16. RISE Summer Internship Program</b>  <i>Host:</i> Multiple campus locations	Must be at least 16 years of age  25 participants	Students work in a research lab under the guidance of a mentor from the lab (typically a graduate student) and attend weekly group sessions that include field trips, presentations, hands-on science

<p>Contact: Kaye Storm, <a href="mailto:kstorm@stanford.edu">kstorm@stanford.edu</a>, 650-724-4332  Website: <a href="http://oso.stanford.edu/programs/39-rise-sumer-internship-program">http://oso.stanford.edu/programs/39-rise-sumer-internship-program</a>  Duration: 7 weeks/30 hours a week</p>	<p>\$2500 stipend</p>	<p>activities, and lab tours.</p>
<p><b>17. SMASH Academy on Stanford Campus</b></p> <p>Host: School of Engineering  Contact: <a href="mailto:julian@lpfi.org">julian@lpfi.org</a>, 415-946-3030  Website: <a href="http://www.lpfi.org/smash">http://www.lpfi.org/smash</a>  Duration: 3-year 5-week program/residential program</p>	<p>Grades 9-11</p> <p>120 participants</p>	<p>Program immerses students in a wide variety of classes, including integrated Science, Technology, Engineering, and Mathematics (STEM) classes, including calculus, physics, video technology, and circuitry.</p>
<p><b>18 Space Weather Monitor Program</b></p> <p>Host: Stanford Solar Center  Contact: <a href="mailto:supersid@radio-astronomy.org">supersid@radio-astronomy.org</a>  Website: <a href="http://solar-center.stanford.edu/SID">http://solar-center.stanford.edu/SID</a></p>	<p>High school students</p> <p>Participation is online</p>	<p>Inexpensive ionospheric monitors are distributed to high school students around the world. The monitors detect solar flares and other ionospheric disturbances. Students “buy in” to the project by building their own antenna (a simple structure costing less than \$10) which takes a couple of hours to assemble. Data collection and analysis is performed by a local computer.</p>
<p><b>19. Stanford Engineering Everywhere (SEE)</b></p> <p>Host: School of Engineering  Contact: <a href="mailto:see-information@lists.stanford.edu">see-information@lists.stanford.edu</a>  Website: <a href="http://see.stanford.edu/default.aspx">http://see.stanford.edu/default.aspx</a>  Duration: 10-12 weeks</p>	<p>Undergraduate and graduate students</p> <p>Participation is online</p>	<p>Stanford is offering some of its most popular engineering classes online and free of charge to students and educators around the world. Students are able to view lecture videos, access reading lists and other course handouts, take quizzes and tests, and communicate with other SEE students.</p>
<p><b>20. Stanford EXPLORE: A Lecture Series on Biomedical Research</b></p> <p>Host: School of Medicine  Contact: <a href="mailto:explore-series@stanford.edu">explore-series@stanford.edu</a>  Website: <a href="http://explore.stanford.edu">http://explore.stanford.edu</a>  Duration: 2 weeks/17 hours a week</p>	<p>Grades 9-12 with at least 1 year of high school biology</p>	<p>Lectures cover the fundamentals and current research areas represented in the five institutes in the School of Medicine (Immunology, Neuroscience, Cardiovascular Medicine, Regenerative and Stem Cell Medicine, and Cancer Biology). Lectures are given by graduate students, postdocs, and faculty.</p>
<p><b>21. Stanford Institutes of Medicine Summer Research Program (SIMR)</b></p> <p>Host: School of Medicine  Contact: Cindy Limb, <a href="mailto:cindylimb@stanford.edu">cindylimb@stanford.edu</a>  Website: <a href="http://simr.stanford.edu">http://simr.stanford.edu</a>  Duration: 8 weeks/40 hours a week</p>	<p>Must be at least 16 years of age</p> <p>60 participants</p> <p>\$1500 stipend</p>	<p>Hands-on research under the direct guidance of a one-on-one mentor at a research lab within the five institutes in the School of Medicine (Immunology, Neuroscience, Cardiovascular Medicine, Regenerative and Stem Cell Medicine, and Cancer Biology).</p>
<p><b>22. Stanford Medical Center 2-Day Summer Workshop</b></p> <p>Host: School of Medicine  Contact: <a href="mailto:summer_medical_program@lists.stanford.edu">summer_medical_program@lists.stanford.edu</a>  Website:</p>	<p>High school sophomores and juniors</p>	<p>Participate in anatomy and surgery simulations and lab demonstrations taught by faculty and academic staff.</p>

<a href="http://smysp.stanford.edu/summer_medical_program.html">http://smysp.stanford.edu/summer_medical_program.html</a> <i>Duration:</i> 2 days		
<b>23. Stanford Medical Youth Science Program (SMYSP) Summer Residential Program (SRP)</b>  <i>Host:</i> School of Medicine <i>Contact:</i> Judith Ned, <a href="mailto:jned@stanford.edu">jned@stanford.edu</a> , 650-498-4514 <i>Website:</i> <a href="http://smysp.stanford.edu/education/summerProgram/">http://smysp.stanford.edu/education/summerProgram/</a> <i>Duration:</i> 5 weeks/residential program	High school sophomores and juniors	Students attend lectures given by Stanford professors, medical professionals, and staff members, participate in computer and writing seminars, and anatomy and pathology laboratory workshops.
<b>24. Stanford High School Summer College</b>  <i>Host:</i> Multiple campus locations <i>Contact:</i> <a href="mailto:summersession@stanford.edu">summersession@stanford.edu</a> <i>Website:</i> <a href="https://summer.stanford.edu">https://summer.stanford.edu</a> <i>Duration:</i> 8-10 week classes	Must be at least 16 years of age	Enrollment in summer courses in the Humanities, Sciences, Mathematics, Engineering, and Athletics
<b>25. Stanford University Mathematics Camp</b>  <i>Host:</i> Mathematics Department <i>Contact:</i> Rick Sommer, <a href="mailto:sommer@math.stanford.edu">sommer@math.stanford.edu</a> , 650-721-932 <i>Website:</i> <a href="http://math.stanford.edu/sumac">http://math.stanford.edu/sumac</a> <i>Duration:</i> 4 weeks	Grades 10-11  37 participants	Includes an intensive course in higher mathematics, a guided research project, a guest lecture series, group problem-solving sessions, and individual tutoring.
<b>26. Tours of SLAC National Accelerator Laboratory</b>  <i>Host:</i> SLAC National Accelerator Laboratory <i>Contact:</i> <a href="mailto:tours@slac.stanford.edu">tours@slac.stanford.edu</a> <i>Website:</i> <a href="https://oraweb.slac.stanford.edu/apex/slacprod/f?p=240:26:1367371308496159">https://oraweb.slac.stanford.edu/apex/slacprod/f?p=240:26:1367371308496159</a> <i>Duration:</i> 1.5 hours	Must be at least 12 years of age  Participants under 18 must be accompanied by an adult	Free guided tours of SLAC National Accelerator Laboratory including a visit to the lab's 2-mile linear accelerator
<b>27. Veterinary Service Center</b>  <i>Host:</i> Department of Comparative Medicine <i>Contact:</i> Jennifer Lee, <a href="mailto:jlee3@stanford.edu">jlee3@stanford.edu</a> , 650-725-9901 <i>Website:</i> <a href="http://vsc.stanford.edu">http://vsc.stanford.edu</a> <i>Duration:</i> 4.5 hours for online training and hands-on workshop	Must be at least 16 years of age	Provides animal care and use training for minors working with research animals in an APLAC-approved protocol. Training includes online and hands-on components.