Summer Institutes 2006
Education Program for Gifted Youth
Stanford University

Application Packet

This packet contains the following:

1. Important information for EPGY Summer Institutes Applicants
2. EPGY Summer Institutes Program Description
3. EPGY Summer Institutes Application Form
4. Teacher Recommendation Form
5. Guidelines for submitting samples of your work

If you have not already done so, please fill out the online preliminary application, found on the EPGY Summer Institutes web site:

http://epgy.stanford.edu/summer/admissions.html

Upon filling out the preliminary application you will receive an EPGY student number (needed for filling out the included application form).

A complete application consists of the following:

1. Application Form.

2. Payment of the $35 application fee. You may pay this fee online from your Summer Status Page: go to http://epgy.stanford.edu/summer/admissions.html and click on the “Applicant Login” link. Payment by check or money order is also acceptable; please use the payment form available from your Summer Status Page. Note that the application fee is waived for applications received by January 20.

3. Copies of standardized test results; a list of appropriate tests can be found on our website: go to http://epgy.stanford.edu/summer/admissions.html and click on the “Materials” link.

4. A sample of your work. For typed writing samples, please send a hardcopy as well as an electronic copy on a disk or by email.

5. A copy of your school transcript (unofficial transcripts are acceptable).

6. Teacher Recommendation Form (mailed or faxed by your teacher). Please have this form sent from a teacher who is qualified to comment on your performance and ability in the Summer Institute subject area(s) to which you are applying. You may submit more than one recommendation form if you are applying to multiple subject areas.

Mailing address: EPGY Summer Institutes, 220 Panama St., Stanford, CA 94305-4101
Fax: 1-650-614-2383, Attn: EPGY Summer Institutes;
Email: epgysummer@epgy.stanford.edu
Phone: 1-800-372-3749 ext. 325
EPGY Summer Institutes 2006
Important Information for EPGY Summer Institutes Applicants

- Tuition for the EPGY Summer Institutes is $3600 for the three-week courses and $4700 for the four-week courses. This cost covers room and board in university housing, course materials, field trips and transportation to and from the San Francisco Airport.
- You may attend multiple sessions but may only take one course per session.
- Admission to the EPGY Summer Institutes is based on review of the materials submitted as part of this application packet. Applications are reviewed according to the subject areas to which you are applying. Please submit materials that show your academic ability and level of interest in those subject areas.
- The Summer 2006 courses, grouped by subject area, are as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Session</th>
<th>Age on first day of session</th>
<th>Current Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Business</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Topics in Business</td>
<td>2</td>
<td>14-16</td>
<td>9-10</td>
</tr>
<tr>
<td><strong>Computer Science</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Computer Programming: Multimedia</td>
<td>1</td>
<td>13-15</td>
<td>8-9</td>
</tr>
<tr>
<td>Introduction to Computer Programming: Java and Robotics</td>
<td>1,2</td>
<td>13-15, 14-16</td>
<td>8-9, 9-10</td>
</tr>
<tr>
<td>Intermediate Computer Programming: Tools and Techniques</td>
<td>2E</td>
<td>15-17</td>
<td>10-11</td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td></td>
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</tr>
<tr>
<td>Investigations in the Humanities: Art in America</td>
<td>2E</td>
<td>15-17</td>
<td>10-11</td>
</tr>
<tr>
<td>Investigations in the Humanities: The Classical and Renaissance Periods</td>
<td>1</td>
<td>14-16</td>
<td>9-10</td>
</tr>
<tr>
<td>Investigations in the Humanities: 20th Century</td>
<td>2E</td>
<td>15-17</td>
<td>10-11</td>
</tr>
<tr>
<td>Investigations in the Humanities: Film</td>
<td>1</td>
<td>14-16</td>
<td>9-10</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
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<tr>
<td>Mathematical Logic and Problem Solving</td>
<td>1</td>
<td>13-15</td>
<td>8-9</td>
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<tr>
<td>Mathematical Investigations: Number Theory</td>
<td>1</td>
<td>13-16</td>
<td>8-10</td>
</tr>
<tr>
<td>Math Olympiad Problem Solving</td>
<td>2</td>
<td>13-16</td>
<td>8-10</td>
</tr>
<tr>
<td>Mathematical Investigations: Geometries</td>
<td>2E</td>
<td>15-17</td>
<td>10-11</td>
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<tr>
<td><strong>Music</strong></td>
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<tr>
<td>Music Theory</td>
<td>1</td>
<td>14-16</td>
<td>9-10</td>
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<tr>
<td><strong>Science and Engineering</strong></td>
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<td></td>
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<tr>
<td>Introduction to Cosmology</td>
<td>2</td>
<td>14-17</td>
<td>9-11</td>
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<tr>
<td>Theory of Relativity</td>
<td>1</td>
<td>15-17</td>
<td>10-11</td>
</tr>
<tr>
<td>Introduction to Engineering</td>
<td>1</td>
<td>15-17</td>
<td>10-11</td>
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<tr>
<td>Introduction to Geology</td>
<td>2</td>
<td>14-17</td>
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<tr>
<td>Quantum Mechanics</td>
<td>2E</td>
<td>15-17</td>
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<tr>
<td>Investigations in Engineering</td>
<td>2E</td>
<td>15-17</td>
<td>10-11</td>
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<tr>
<td>Investigations in Physics: Particle Physics</td>
<td>1</td>
<td>14-17</td>
<td>9-11</td>
</tr>
<tr>
<td>Introduction to Bioscience and Biotechnology</td>
<td>1</td>
<td>14-17</td>
<td>9-11</td>
</tr>
<tr>
<td><strong>Writing</strong></td>
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<tr>
<td>Expository Writing</td>
<td>1,2</td>
<td>13-15</td>
<td>8-9</td>
</tr>
<tr>
<td>Creative Writing</td>
<td>1,2</td>
<td>13-15</td>
<td>8-9</td>
</tr>
<tr>
<td>Expository Writing</td>
<td>1,2,2E</td>
<td>15-17</td>
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<tr>
<td>Creative Writing</td>
<td>1,2,2E</td>
<td>15-17</td>
<td>10-11</td>
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</table>
EPGY Summer Institutes 2006 Program Description

The EPGY Summer Institutes are three-week and four-week residential summer programs on the Stanford University campus. The programs are designed for highly-motivated students who want to enrich and accelerate their academic pursuits and share this experience with others who have similar interests and abilities. Past EPGY Summer Institutes participants have come from over 30 countries and over 45 states, and every student leaves with a sense of academic accomplishment, new friends, and fond memories of a wonderful time spent at Stanford University. Summer Institutes participants live in supervised Stanford housing and are taught by Stanford instructors. Students engage in intensive study in a single subject and are introduced to topics not typically presented at the high-school level. The Summer Institutes provide a taste of college life in the beautiful surroundings of the Stanford campus.

Course offerings are for students currently in grades 8 through 11. Summer Institutes subject areas include mathematics, science, writing, humanities, computer science, engineering, business, and music. The instructors are assisted by undergraduate and graduate student mentors who have expertise in the course subject areas. These mentors serve a dual role of Residential Counselor and Teaching Assistant so that the academic and social aspects of the program are tightly integrated. Summer Institutes courses may be supplemented with guest lectures and special projects involving Stanford faculty.

Approximately 40 students and 6 residential counselors will occupy each residence, with the students in the residence attending the same course. Rooms for boys and girls are on separate floors, or in separate parts of the residence. Students spend the morning in a classroom setting with their instructor, and then from lunch through mid-afternoon they work individually and in small groups with the teaching assistants. Following this study time, the students break from the academic side of the program and select from a wide selection of activities, ranging from sports and games to art and music. On weekends there are off-campus excursions to local points of cultural, historic, and scenic interest in the San Francisco Bay Area.

Enrollment in all sessions is limited. Students are selected based on grades, performance on standardized exams, teacher recommendations, work samples, and reasons for wanting to come to the Summer Institutes which are expressed in the free-response questions on the application form. Application deadlines and more information about the program are available on the EPGY Summer Institutes web site (http://epgy.stanford.edu/summer/institutes.html).
EPGY Summer Institutes 2006 Application Form Part 1

Session Preferences

This form is for you to indicate your session and course preferences. The information you provide on this form will be used in place of the information you entered in the on-line preliminary application form.

Session Preference (please check only one box)

☐ I prefer session 1 (June 25 – July 14). If you check this box your application will be reviewed for session 1 first, and it will not be reviewed for Session 2 unless we are unable to place you in one of your session 1 choices.

☐ I prefer session 2 (July 17 – August 5, or July 17 – August 12 for the four-week courses). If you check this box your application will be reviewed for session 2 first, and it will not be reviewed for Session 1 unless we are unable to place you in one of your session 2 choices.

☐ I have equal preference for Session 1 and Session 2, but I want to attend just one session. If you check this box your first choices for session 1 will be considered equally with your first choices for session 2, and similarly for your second choices and third choices; however, you can take only one course per session.

☐ I would like to attend both Session 1 and Session 2. If you check this box, your application will be reviewed for both your session 1 preferences and your session 2 preferences. Note that admission to a course in one session does not guarantee admission into a course in the other session.
## Course Preferences

Mark the check boxes below according to whether the course is your first (1st), second (2nd), or third (3rd) choice. You can mark more than one first choice, more than one second choice, and more than one third choice, in case you have equal preference for more than one course. Do not check any courses that you are not interested in attending.

### Session 1 Courses

For those currently in grades 8-9
- 1st 2nd 3rd Introduction to Computer Programming: Multimedia  **COURSE FULL**
- 1st 2nd 3rd Mathematical Logic and Problem Solving  **COURSE FULL**
- 1st 2nd 3rd Creative Writing  **COURSE FULL**
- 1st 2nd 3rd Expository Writing  **COURSE FULL**

For those currently in grades 8-10
- 1st 2nd 3rd Mathematical Investigations: Number Theory  **COURSE FULL**

For those currently in grades 9-10
- 1st 2nd 3rd Introduction to Computer Programming: Java and Robotics  **COURSE FULL**
- 1st 2nd 3rd Investigations in the Humanities: The Classical and Renaissance Periods  **COURSE FULL**
- 1st 2nd 3rd Investigations in the Humanities: Film  **COURSE FULL**
- 1st 2nd 3rd Music Theory  **COURSE FULL**

For those currently in grades 9-11
- 1st 2nd 3rd Investigations in Physics: Particle Physics  **COURSE FULL**
- 1st 2nd 3rd Introduction to Bioscience and Biotechnology  **COURSE FULL**

For those currently in grades 10-11
- 1st 2nd 3rd Introduction to Engineering  **COURSE FULL**
- 1st 2nd 3rd Theory of Relativity  **COURSE FULL**
- 1st 2nd 3rd Creative Writing  **COURSE FULL**
- 1st 2nd 3rd Expository Writing  **COURSE FULL**

### Session 2 Courses

For those currently in grades 8-9
- 1st 2nd 3rd Creative Writing  **COURSE FULL**
- 1st 2nd 3rd Expository Writing  **COURSE FULL**

For those currently in grades 8-10
- 1st 2nd 3rd Math Olympiad Problem Solving  **COURSE FULL**

For those currently in grades 9-10
- 1st 2nd 3rd Introduction to Computer Programming: Java and Robotics  **COURSE FULL**
- 1st 2nd 3rd Topics in Business  **COURSE FULL**

For those currently in grades 9-11
- 1st 2nd 3rd Introduction to Cosmology  **COURSE FULL**
- 1st 2nd 3rd Introduction to Geology  **COURSE FULL**

For those currently in grades 10-11
- 1st 2nd 3rd Creative Writing  **COURSE FULL**
- 1st 2nd 3rd Expository Writing  **COURSE FULL**

For those currently in grades 10-11 (4 weeks – Session 2E)
- 1st 2nd 3rd Investigations in the Humanities: 20th Century
- 1st 2nd 3rd Investigations in the Humanities: Art in America
- 1st 2nd 3rd Investigations in Engineering: Special Topics
- 1st 2nd 3rd Quantum Mechanics  **COURSE FULL**
- 1st 2nd 3rd Mathematical Investigations: Geometries
- 1st 2nd 3rd Intermediate Computer Programming: Tools and Techniques
- 1st 2nd 3rd Creative Writing  **COURSE FULL**
- 1st 2nd 3rd Expository Writing  **COURSE FULL**
### Supplementary Information (page 1 of 2)

1. List any academic summer camps that you have previously attended. Indicate how many weeks the program lasted, and whether it was a residential program. Use a separate page if necessary.

2. List any extra-curricular academic activities in which you have participated during the last three years, in order of their importance to you; for example, math or science clubs, literary magazines, etc. Use a separate page if necessary.

3. List all academic contests and competitions, including science fairs, in which you have participated, giving your score and/or ranking if possible. Use a separate page if necessary.
4. Some of the EPGY Summer Institutes courses have prerequisites. These prerequisites can be viewed by viewing the course offerings page on the Summer Institute web site. For all courses that you are applying to that have prerequisites, please state here what courses you have taken to meet the prerequisite, and the grade received in those courses.

5. Included in the application packet are instructions for submitting samples of your work in the subject areas to which you are applying. Please list here the work that you are submitting, the dates you completed that work, and the course and assignment for which you did your work.

6. Please list all other summer programs you have applied to or plan on applying to this summer.
1. The EPGY Summer Institute courses are grouped into six subject areas: Business, Computer Programming, Humanities, Mathematics, Music, Science and Engineering, and Writing. Each course you marked as one of your preferences is in one of these six categories. Please refer to Important Information for EPGY Summer Institute Applicants in this packet if you are unsure of the subject area for a particular course. Circle the subject areas to which you are applying.

<table>
<thead>
<tr>
<th>Business</th>
<th>Computer Science</th>
<th>Humanities</th>
<th>Mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Music</th>
<th>Science and Engineering</th>
<th>Writing</th>
</tr>
</thead>
</table>

2. For each of the subject areas that you circled above, please write a few sentences explaining what you like about the subject area. For example, if you listed the Mathematical Investigations: Number Theory course among your preferences, you can start with “What I like most about math is…” If you would rather comment on the particular course, rather than subject area, you are encouraged to do so. You are welcome to write about a specific experience you had in a course in that subject area, or something that you learned that made you interested to find out more. Be sure to write separately about the different subject areas. You may attach additional pages if needed.
3. Describe yourself as a student. Do you like to study? What do you like, or dislike, about school? Feel free to use examples from your personal experience to help with your description. You may write your answer on a separate sheet of paper if you need additional space.

4. What do you hope to gain by participating in the EPGY Summer Institutes? You may write your answer on a separate sheet of paper if you need additional space.

5. What are your main reasons for wanting to attend the EPGY Summer Institutes? You may write your answer on a separate sheet of paper if you need additional space.

6. Tell us anything else about yourself that you feel is relevant, or describe some of your non-academic interests. You may write your answer on a separate sheet of paper if you need additional space.
EPGY Summer Institutes 2006 Application Form Part 5

Honor Code

To be read and signed by the applicant

I, ___________________________________, have truthfully represented myself on this application in my answers to the questions and in the work that I am submitting. I understand that any misrepresentation in my application materials is grounds for EPGY to revoke an offer of admission to Summer Institutes.

Student Signature __________________________________________________________________________ Date ____________

To be read and signed by the applicant’s parent or legal guardian.

I, ___________________________________, have carefully read my son or daughter’s application, including work samples, and to the best of my knowledge, all information included here is correct, and the work that my son or daughter is submitting is his or her own. I understand that any misrepresentation in this application is grounds for EPGY to revoke an offer of admission into the Summer Institutes.

Parent/Guardian Signature _______________________________________________________________________ Date ____________
Teacher Recommendation Form

To the student: This form is to be completed by your teacher. We encourage you to select a teacher who can comment on your performance and ability in the Summer Institutes subject area to which you are applying, as well as comment on your general suitability for an intensive residential academic program. You should provide a copy of the Summer Institutes Program Description, from the application packet, to the teacher filling out this form. Also, the applicant should inform the teacher what subject area the applicant is applying to, and which application review deadline she or he is trying to meet.

Subject area to which you are applying:________________________    Due date:_________________

To the teacher: Please fill out the form below and include on the back of this form, or a separate sheet of paper, further comments about the student. We appreciate any information that you feel is relevant to determining whether the applicant is suited for the EPGY Summer Institute. Note that this is an intensive program where the students will be living as a close group for four weeks, so your impressions of the student's emotional maturity and ability to live and work with other students are especially relevant. Note also that we seek students whose academic talent is exceptionally high.

Send this form by fax to (650) 614-2383 Attn: Summer Institutes, or by mail to: EPGY Summer Institutes, 220 Panama St., Stanford CA 94305-4101

Teacher's name:

Name and address of school:

Teacher’s email address:

Teacher’s telephone number:

How long have you known the applicant, and in what capacity?

For each of the following indicate how the applicant compares to other students in similar classes by giving the applicant's approximate rank in terms of "top 1%", "top 5%", etc.

<table>
<thead>
<tr>
<th>Ability in subject area</th>
<th>Analytical ability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interest in subject area</td>
<td>Personal initiative</td>
</tr>
<tr>
<td>Ability to work with others</td>
<td>Perseverance</td>
</tr>
<tr>
<td>Ability to work independently</td>
<td>Emotional maturity</td>
</tr>
<tr>
<td>Creativity</td>
<td>Leadership skills</td>
</tr>
</tbody>
</table>

Please indicate the level to which you would recommend the applicant for the EPGY Summer Institute in the listed subject area. Please check one:

☐ Very highly recommended  ☐ Highly recommended  ☐ Recommended  ☐ Not recommended

Teacher’s Signature: __________________________________________ Date________________________________

Be sure to include additional comments on the back of this form, or on a separate paper.
EPGY Summer Institutes 2006

Guidelines for submitting work samples

All work samples should be from something completed in the last year, and the date that you produced the sample should be indicated on the supplemental information form. If the sample is from a school assignment, please indicate what course it was for and what the assignment was. If you are submitting a writing sample, you should send a hardcopy with your application, and you should provide us with an electronic version on a disk or by email.

1. **Computer Science courses.** If you have taken a computer science course in the past, you should submit a computer program (on CD or floppy disk) that you have written. If you have never taken a computer science course before, then please submit a sample of your work in mathematics (from a math course, math contest, math project, or something you have done on your own).

2. **Humanities courses.** The humanities courses have the same requirement as the writing courses – see below.

3. **Mathematics courses.** Please submit a sample of your work from a math course, a math contest, a math project, or other math work that you have done on your own.

4. **Music courses.** Please submit a recording of music played by and/or composed by you.

5. **Science and Engineering courses.** Please submit a sample of work from a science course, a science fair, or other science work you have done.

6. **Writing courses.** Please submit a writing sample. If you are applying to a creative-writing course, you should submit a short story, poem, or play that you have written. If you are applying to an expository writing course, or one of the humanities courses, your writing sample can be any of the following:
   
   a. Persuasive Essay  
   b. Descriptive Essay  
   c. Research Paper  
   d. Literary Analysis Essay  
   e. Factual Report (e.g., social studies/history report)

   Please include a hardcopy of the writing sample with the application, and include an electronic version on disk or by email.

7. **Business courses.** We do not require any specific work sample for our business courses. If you have any examples of work pertinent to the EPGY Business course, please include that in your application.