

2010
DOUGLASS SCIENCE INSTITUTE
(DSI) PROGRAM SERIES

DSI for Entering 9th Grade Women

Program Description

The 2010 Douglass Science Institute (DSI) for entering 9th grade women is a one-week residential exploratory program for students interested in math, science, engineering and/or technology. Administered through the Douglass Project for Rutgers Women in Math, Science, and Engineering, the DSI for 9th grade women is the first phase of the DSI Program Series, a cumulative summer residential program for high school women.

The forty-eight students who participate and complete the 9th grade program are eligible to apply for the residential program, which is held during the summers preceding their 10th, 11th & 12th grade years.

The six objectives of this multi-year program are to:

- (1) expose young women to challenging, hands-on labs in a variety of areas of math, science, and engineering;
- (2) introduce participants to women scientists and researchers and expose them to current scientific research through visits to laboratory sites in University and corporate settings;
- (3) explore issues which pertain to young women's lives such as leadership and diversity;
- (4) examine the role and contributions women have made in the fields of math, science, and engineering;
- (5) educate parents/guardians to support young women making decisions regarding courses,
- (6) cultivate long-lasting friendships among young women of diverse backgrounds with similar interests

Continuation of Program Description

DSI for 10th grade women, a one-week summer residential program that includes:

- ◆ further exploration of physics, biology and chemistry, including environmental, marine and forensic sciences, through labs and activities
- ◆ mathematic and computer labs and workshops
- ◆ field trip to a science center relating to the topics at hand
- ◆ program for students to meet career women in math, science, engineering and technology
- ◆ Reunion - overnight science-related field trip during the academic year

DSI for 11th grade women, a one-week summer residential program consisting of:

- ◆ exploration of fields of physics, biotechnology, astronomy, biology and engineering, including scientific and mathematical concepts learned in years past, through hands-on labs and field trips
- ◆ field trip to a science center and University departments relating to the topics being studied
- ◆ program for students and parents providing information on the college admissions process and Douglass College
- ◆ overnight science-related field trip during the academic year

DSI for 12th grade women, a one-week summer residential program consisting of:

- ◆ activities to bridge the transition from high school to college
- ◆ in depth discovery into the diversity of careers in math, science and engineering
- ◆ an opportunity to learn about the wide range of majors, options and specialized programs of studies offered at Douglass College with tips on how to select one that meets your needs
- ◆ challenging and exciting lab activities where you will use the knowledge and skills learned in past DSI experiences
- ◆ field trip to a scientific research facility
- ◆ detailed information session on Douglass College and general information on the college application process, how to apply online and application fee waived

Please note: The 10th, 11th and 12th grade programs will be offered contingent upon the continued support of external funding.

Program Cost

The cost of the 9th grade program is \$735.00. This fee includes room and board, classes, laboratory supplies, field trip transportation and entrance fees.

LIMITED PARTIAL SCHOLARSHIPS ARE AVAILABLE. Information regarding scholarships will be included with the letter of acceptance.

The Douglass Science Institute Program Series has been supported through funding from the Associate Alumnae of Douglass College, Colgate Palmolive Company, William Randolph Hearst Foundation, and Rutgers University.

Program Eligibility

- * Admission to the program is based on the applicant's genuine interest in math and science, as displayed through the student's essay, letters of recommendation, as well as involvement in math and science-related classes and activities.
- * The Douglass Project seeks to serve young women with both average and above average academic abilities, as well as those representing diverse backgrounds. Most importantly, students must demonstrate an enthusiasm for math and science, whether or not they have reached their potential
- * Applicants must currently be in the 8th grade. Students must be promoted to the 9th grade at the time of the institute.

**Participants will be required to remain at the institute from July 11 - July 16, 2010
NO LEAVE OF ABSENCE WILL BE AUTHORIZED
AT ANY TIME.**

Application Process

Application forms and all supporting documents must be postmarked by March 01, 2010.

Applications postmarked after this date will not be considered. If you would like to be notified of the receipt of your completed application, please enclose a self-addressed stamped post-card.

Please use the following checklist to make sure your application is complete:

- ✓ Completed application form with student and parent/guardian signature
- ✓ One short essay, typed or neatly written
- ✓ Two letters of recommendation:
 - I. One must be from a Math or Science teacher
 - II. The other may be from one of following:
 1. Math or Science Teacher
 2. Guidance Counselor
 3. Individual with whom you have had contact either through community service or extracurricular activities
- ✓ An official copy of your junior high/middle school transcript or report card

Please note: Admission to the DSI program is very competitive due to a limited number of spaces, therefore; please be conscientious in completing the application, incomplete applications will not be reviewed.

Send all application materials to:
Douglass Science Institute for 9th Grade
The Douglass Project for Rutgers Women in
Math, Science and Engineering
Chemistry Annex
50 Bishop Street
New Brunswick, NJ 08901

The 2010 DSI for entering 9th grade women will be held from Sunday, July 11, through Friday, July 16, 2010. Participants reside in the Bunting-Cobb Residence Hall at Douglass Residential College, Rutgers, The State University of New Jersey, New Brunswick Campus.

An example of the daily schedule is as follows:

7:45 a.m. Breakfast
9:00 a.m. - 12:00 p.m. Science labs
12:30 - 1:30 p.m. Lunch
1:45 - 5:00p.m. Math/Physics labs
5:00 - 6:00 p.m. Dinner
6:00 - 7:30 p.m. Free Time
7:30 - 9:00 p.m. Leadership development
9:00 - 10:00 p.m. Group activity
11:00 p.m. Lights Out

OTHER PRECOLLEGE PROGRAMS OFFERED BY THE DOUGLASS PROJECT:

**Douglass Science Career Exploration Day
for women in grades 10 - 12**

If you have any questions about the program or application process, please feel free to contact us.

(732)932-9197 x 11

email dougproj@echo.rutgers.edu

Douglass Project Website

<http://www.rci.rutgers.edu/~dougproj/>

Douglass Project for Rutgers Women in Math, Science and Engineering PRECOLLEGE PROGRAMS

Douglass Science Institute

July 11 - July 16
2010



**Douglass Project for Rutgers Women
in Math, Science, and Engineering
Douglass College
Rutgers, The State University
50 Bishop Street
New Brunswick, NJ 08901
732-932-9197 ext. 11**