

RobotC for Girls & RobotC II for Girls
University of Michigan
a summer day camp for students who have completed grades 8-12
JULY 6 - 10, 2009

What is It?

RobotC/ RobotC II is a **one-week, day program** for students who will complete grades 8 – 12 in June, 2009.

The camp introduces students to computer programming in a fun and supportive environment. RobotC II is offered to girls who have participated in our RobotC camp last year, and/or to girls who have had an introduction to RobotC, C++ or text-based programming (HTML does not count). The number of campers is limited to 15 for each RobotC and RobotC II.

RobotC for Girls campers will program Lego Mindstorm robots using C programming language. This is the language that the high school FIRST Robotics Competition teams use. UM's Engineering 101, a required course for engineering students, uses C++ which is quite similar to C. Robot C II campers will review and extend their RobotC knowledge and will begin to explore C++ programming.

The camp is planned and taught by University of Michigan faculty, staff and students. In addition to hands-on activities, campers will participate in fun group competitions, will tour dynamic UM labs, Google, and the UM campus and will talk with UM students in science and engineering majors.

Our campers are chaperoned by WISE camp staff at all times.

RobotC for Girls and RobotC II for Girls are sponsored by the University of Michigan, Women in Science and Engineering (WISE) Program and by Google.

How Much Does it Cost?

RobotC and RobotC II costs \$200 for a five-day session. This tuition includes five full days of program activities from 8:30 AM - 4:30 PM. Lunch is not provided. Students should bring a bag lunch every day. All instructional costs, supplies, and equipment are included.

A limited number of partial scholarships are available to students who are eligible for the program and who can document need. To apply for scholarship support, please complete the attached scholarship request form and return it with your application.

Optional early drop-off and late pick-up is available for an additional fee.

When and Where is It?

RobotC and RobotC II will be held on the University of Michigan campus in Ann Arbor.

Monday - Friday, July 6-10, 2009 8:30 AM - 4:30 PM

Students attending the program will meet each morning at UMs WISE Program Office in 1140 Undergraduate Science Building,

Who is Eligible to Apply?

You are eligible to apply for RobotC and RobotC II if:

- * You will complete the grades 8-12 in June, 2008
- * You have an interest in science, computers, mathematics, or engineering
- * You send us a **complete** application, including a letter of recommendation postmarked no later than **May 22, 2009. If you already have a recommendation form on file with the WISE program for the 2009 GISE camp, you will not need to submit another.**
- * RobotC: No previous experience in robotics or programming is necessary.
- RobotC II: Prerequisite included either RobotC for Girls 2008, or some experience with a text based programming language (not HTML).

How Do I Apply?

Complete the entire student application form. Use black ink or black type. Give the recommendation form to the person you have chosen to recommend you. Remember that **your recommendation must be from a math or science teacher.** We will not consider an application until it is complete, including a letter of recommendation. Return your completed application not later than by May 22, 2009. **Each camp session is limited to 15 students.**

We will accept eligible students into the camp as we receive their completed application. All applicants will receive an email once their completed application has been reviewed. DO NOT send money with your application.

Accepted students will be notified by mail and will be asked to send a non-refundable, space-reserving deposit of \$100.00 when they are notified. They will also receive participation forms and directions to the camp. A balance of \$100 due by June 5, 2009.

Please Note:

Partial scholarships are limited and may not be available to all students who request them. Many community organizations are willing to help fund the costs of student participation in summer learning programs. If you need assistance with the cost of the program, please check with groups in your area. Examples include: Zonta, Rotary Clubs, Church/religious groups, Girl Scouts, schools. Teachers may have additional suggestion.

For More Information or Questions, Please Contact:

Women in Science and Engineering (WISE) Program
University of Michigan
1140 Undergraduate Science Building (USB)
204 Washtenaw
Ann Arbor, MI 48109-2215
Phone: (734) 615-4455
Fax: (734) 615-4450
Email: umwise@umich.edu

RobotC for Girls APPLICATION FORM

Sponsored by the University of Michigan Women in Science and Engineering (WISE) Program

1140 Undergraduate Science Building (USB)
204 Washtenaw
Ann Arbor, MI 48109-2215.

One Session Only July 6-10, 2009

A complete application includes: this form completed, a brief essay about your interest in this program, and one letter of recommendation from a math or science teacher. Spaces are limited to 15 girls per session. Applications will be reviewed upon receipt. No application will be reviewed until it is complete, including teacher recommendation.

1.

Student's Last Name	First	Middle	Grade
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2.

Home Address: Number and Street	City	State	Zip
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3. ()

Home Phone: Area Code/Number	Student's Date of Birth	Parent's Email Address
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4. Father's Name: _____ Day Time Phone () _____

Father's Occupation: _____

Father's Address: _____

5. Mother's Name: _____ Day Time Phone () _____

Mother's Occupation: _____

Mother's Address: _____

6. Name of Student's School: _____

School Address: _____

School Phone: () _____ School District: _____

7. Name of School Student will be attending in the Fall of 2008 (if same, write same):

8. Please list the science courses you have taken since 6th grade and the letter grade you received.

Course: _____ Letter Grade: _____

Course: _____ Letter Grade: _____

Course: _____ Letter Grade: _____

9. Please list the math courses you have taken since 6th grade and the letter grade you received.

Course: _____ Letter Grade: _____

Course: _____ Letter Grade: _____

Course: _____ Letter Grade: _____

10. Please describe any special experiences you have had or people who have encouraged your interest in science or engineering.

11. How large is your school?

50-100 Students 100-300 Students Over 300 Students

13. Which camp session are you applying to? (Please check one):

RobotC for Girls RobotC for Girls II

14. If you checked RobotC for Girls II, please describe your programming experience:

15. The cost of **RobotC for Girls** and RobotC for Girls II is \$200. The fee includes instructional time, equipment, supplies, and materials. Lunch is not included. Please bring a bag lunch each day. A limited number of partial scholarships are available to students who can document need. Students may also seek funds in their communities to support their participation. Organizations to contact include: Zonta, Rotary Clubs, Lions, Kiwanis, Kappa Kappa Kappa, Business and Professional Women's Clubs, Engineering Societies, Medical Societies, Church groups and Energy Companies.

If accepted, I will provide my own tuition of \$200.

If accepted, I will require support in the amount of \$_____

(Optional): I am: African American/Black Asian/Asian American American Indian Caucasian Hispanic East Indian/Pakistani Other -
Specify: _____

16. Please write a paragraph about why you want to attend the RobotC for Girls camp. This can include current interests, future career interests, any experiences that led you to believe this would be an interesting camp to attend, or anything else you want to include:

17. A completed recommendation form from a science or math teacher is required. Please indicate below the status of your recommendation form:

_____ I submitted a recommendation form for the GISE camp this year and have therefore fulfilled the letter of recommendation requirement

_____ My completed recommendation form is attached

_____ I have submitted my recommendation form to my teacher (Please follow up with your teacher to ensure the recommendation has been submitted)

If you are requesting scholarship support, a parent or guardian must complete the Scholarship Request form attached to this application.

RobotC for Girls RECOMMENDATION FORM

Sponsored by the University of Michigan Women in Science and Engineering Program.

To the Student Applicant: Please complete the top two lines of this form. Give the form and a stamped, addressed business sized envelope to the teacher recommending you, and remind him or her that the **recommendation is due as soon as possible. Alternately, the recommendation may be faxed to 734-615-4450. Your application will not be reviewed until the recommendation form is complete. Space are very limited in the RobotC camp.**

Student's Name: _____ School Name: _____

School District: _____ City: _____

To the Teacher Completing this Form: The student named above is applying to the University of Michigan Women in Science and Engineering program, **RobotC for Girls or the RobotC for Girls summer program.** Students attending this one-week program on the UM campus participate in hands-on programming of Lego Mindstorm robots using C programming language. Students should be interested in science, math or engineering, but **no previous experience** is necessary. With your knowledge of the applicant, please provide information on the following:

Your Name: _____ Title: _____

Employer: _____ Day Time Phone: _____

Address: _____ Zip: _____

1. In what capacity do you know this student:

2. If the applicant has been your student, what courses did you teach this student, when, and what was her letter grade in the course? _____

3. Briefly comment on the special qualities that this student has that the selection committee should know about. _____

4. Relative to other students in her age group, the student's behavior is:

___ Immature ___ Normal ___ Very Mature ___ Exceptional

Comment:

OVER

5. Does this student interact well with her peers? Please Explain:

6. Does this student have any particular behavior problems? Please Explain:

7. Does this student respect the rights and differences of other people? Please Explain:

8. Please provide any additional comments about the applicant's qualifications for participation in this program.

9. Signature: _____ Date: _____

Thank you for your recommendation. Please return this form to: Women in Science and Engineering Program, University of Michigan, 1140 Undergraduate Science Building (USB), 204 Washtenaw, Ann Arbor, MI 48109-2215

Alternately, the recommendation may be faxed to 734-615-4450

Please phone or email if you have additional questions: (734) 615-4455, umwise@umich.edu