Summer Undergraduate Research Institute in Experimental Mathematics
Lyman Briggs College
June 6 - July 30, 2011

Sponsored by
the Lyman Briggs College and
the Mathematics and Statistics Departments
at Michigan State University
with major funding from
the National Security Agency

Housing
Your dormitory room will be in either Van Hoosen or Owen Hall. Check-in and administration of rooms will be done through the Owen Hall front desk:

Owen Service Center (517) 355-5068

Calendar of Events: June 6 - July 30

Week 1: June 5 - June 12

June 5 (Sunday) Participants arrive; check in at Owen Hall.

June 6 (Monday) Program begins at 8:30 a.m. in W-40 Holmes Hall. Each of the three research opportunities will be introduced (1 hour lectures each followed by time for questions). Problem sets will be distributed for the students to work on in the afternoon.

June 7 (Tuesday) Continue to introduce topics: 8:30 a.m. until 11:30 a.m. in W-40 Holmes Hall; there will be three more lectures and another set of problems. Faculty distribute forms for students to rank their preferred research group assignments. In the afternoon, students fill out W-9 forms (in Kathie Ellis’s office in E-30B Holmes Hall) and obtain MSU student ID cards (basement of the Administration Building).

June 8 (Wednesday) Students turn in forms with their ranking of preferred research group assignments. Computer lab in W-38 Holmes Hall: 8:30 a.m. until 11:30.

June 9 (Thursday) First meeting of the newly formed research groups: time and location arranged by group.

June 10 (Friday) Group presentations in W-40 Holmes Hall: 8:30 a.m. Submit (via e-mail) a weekly progress report / summary by the end of the day to your group’s faculty mentor.

June 11-12 (Saturday & Sunday) No activities planned this first weekend. Explore East Lansing and MSU. Check out Lansing’s “Be a Tourist in Your Own Town” at www.lansing.org/batyot. Bus transit available at discounted rates.
Weeks 2-6

Typical Monday through Thursday schedule (details arranged by group):

8:30 a.m. - 9:30 a.m. – Breakfast at Holmes Hall

9:30-10:30am – meet with faculty mentors (or at arranged times)

10:30 a.m. - 12:00 noon – time available for consultation on computing problems (or at arranged times with Dr. Dan Dougherty)

1:00 p.m. - 5:30 p.m. – work on research projects in Holmes Hall

*It is important to put in a full day of work if you expect to obtain significant results from your research!*

Typical Friday schedule:

9:00 a.m. - 11:30 a.m. – Group presentations / weekly updates

11:00 a.m. – 1:00 p.m. – Guest lecture and special lunch

Each group will submit a weekly report (e-mail to your faculty mentor or Dropbox). Reports should be a PDF file produced from LaTeX source code.

Saturday and Sunday: Various activities will be coordinated. We will choose from among a list of suggestions including (but not limited to) the following: movie night, bowling, sailing, hiking, camping, soccer, ultimate frisbee, minor league baseball game, ice skating, cyclotron tour, ice cream at the MSU Dairy Store, (your idea here)...

Graduate assistants will be available during the weekends to assist with your research and to help you to track down resources.

Week 7

By the end of the week (Friday, July 29), groups will submit a scholarly research article summarizing their work. Final presentations will be made during this week.

July 30 (Saturday): Program ends; students must vacate dorm by

Guest Lectures

**June 17, Dr. Ramanand Shobha (MSU)** Funding Your Education the SMART Way: A description of the Department of Defense’s SMART Scholarship Program

**July 8, Justin Droba (MSU)** The $25B Eigenvector: The Linear Algebra Behind Google

**July 15, Dr. Michele Intermont (Kalamazoo College)** The Sound of Algebra

**July 28, Graduate Students Panel (MSU)** What to Expect in Grad School?

Other Important Dates

July 25 (Monday): Joint REU meeting at Hope College; groups will present a 15 minute presentation.
Participants

Tim Dwyer    Theodore Dokos    Kim Selsor
Rebecca Miller    Laquinta Stuart    Brandon Alberts
Ariel Setniker    Stephanie Ger    Raymond Watkin
Keaton Quinn    Garrett Yord

Grad Students

Justin Droba    Bryan Johnson
drobajus-at-msu.edu    john2945-at-msu.edu

Faculty

Dan Dougherty    Bruce Sagan    Akililu Zeleke
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