

## Mathematics Advanced Study Semesters (MASS)

Department of Mathematics of the Penn State University runs a yearly semester-long intensive program for undergraduate students seriously interested in pursuing career in mathematics. MASS is held during the fall semester of each year. For most of its participants, the program is a spring board to graduate schools in mathematics. The participants are usually juniors and seniors.

The MASS program consists of three core courses (4 credits each), Seminar (3 credits) and Colloquium (1 credit), fully transferable to the participants' home schools. The core courses offered in 2010 are:

*Differential equations from an algebraic perspective* (N. Higson),

*Dynamics, mechanics and geometry* (M. Levi),

*Function Field Arithmetic* (M. Pakian).

**Applications for fall semester of 2010 are accepted now.**

### **Financial arrangements:**

Successful applicants are awarded *Penn State MASS Fellowship* which reduces their tuition to the in-state level. Applicants who are US citizens or permanent residents receive *NSF MASS Fellowship* which covers room and board, travel to and from Penn State and provides additional stipend. Applicants with outstanding previous record are awarded additional *MASS Merit Fellowship*. Participants who significantly exceed expectations during the program will be awarded *MASS Performance Fellowships* at the end of the semester.

For complete information, see  
<http://www/math/psu.edu/mass>  
e-mail to [mass@math.psu.edu](mailto:mass@math.psu.edu)  
or call (814)865-8462