

**San Diego State University**  
**Mathematics Research Experience for Undergraduates and Teachers 2009**  
**Program Survey Summary**

Participants were asked to anonymously answer ten survey questions evaluating the program. All participants returned the survey, and the question response rate was 98.6%. Each question was answered on a six-point scale. The overall average was 5.2, between Good and Excellent.

1=Terrible    2=Bad    3=Neutral    4=Positive    5=Good    6=Excellent

Ave.	Question
5.77	Please evaluate your Project Director.
5.57	Please evaluate the REUT program as a whole.
5.46	Please evaluate the expected impact of the REUT program on your career and life.
5.43	Please evaluate your specific research topic.
5.29	Please evaluate the outcome of your research.
5.29	Please evaluate your Project Team.
4.93	Please evaluate the overall organization of the REUT program.
4.86	Please evaluate the SDSU campus facilities you used.
4.64	Please evaluate the social/recreational environment.
4.36	Please evaluate the colloquium series.

Here are some quotes from these anonymous surveys.

- very professional
- well-organized
- the REU is a great program
- incredibly interesting
- the campus is beautiful
- I love San Diego!
- I loved the social activities.
- opened my eyes to a whole new area of math that I feel passionate about
- It really does change your perspective on your future in mathematics.
- really helped me decide what I wanted to do with my math career
- I will apply to a Math Ed PhD here as a result.
- am leaving with a deep passion for the subject
- will absolutely recommend this to everyone I know
- I'll miss this program. I'm sad to leave!

Participants were also asked to answer seven questions about attitudes toward the mathematical sciences. They were surveyed both at the beginning of the program and at its conclusion. All survey pairs were received, with a question response rate of 100%. Each question was on a six-point scale. Individual participant attitudes changed from between -2 and +8 total points<sup>1</sup> between the seven questions, with an average increase of 2.8 points (0.4 points per question). TMS broadly denotes “the mathematical sciences”, to include bioinformatics and mathematics education.

1=Strongly Disagree    2=Moderately Disagree    3=Disagree Slightly  
 4=Agree Slightly    5=Moderately Agree    6=Strongly Agree

Change in Attitude	Question
0.93	I understand the nature of research in TMS.
0.93	I understand the nature of graduate study in TMS.
0.57	I write technical material in TMS well.
0.29	I want research in TMS to be part of my future career.
0.07	I plan to pursue (further) graduate study in TMS.
0.07	I enjoy discussing TMS with others.
-0.07	I enjoy doing TMS.

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<sup>1</sup>The only participant with a decrease in attitudes was the sole high school student, who participated without financial support.