

Summer Mathematics Program at the University of New Mexico
July 7– August 8 2008

From July 7 through August 8, 2008, the University of New Mexico will host a program, supported by the National Science Foundation, designed to introduce undergraduate students to important ideas in both pure and applied mathematics. Areas of focus for this summer will include Fourier analysis, symmetry, mathematical modeling, and fluid dynamics. One week will be devoted to each topic with a one week break in the middle devoted to exploring New Mexico.

There are numerous important goals to this program:

1. explore important ideas in pure and applied mathematics which are not always adequately covered in the normal undergraduate curriculum,
2. learn to think independently on open ended questions,
3. build a supportive community for those interested in learning mathematics,
4. see rich relationships between different areas of mathematics.

We welcome participants with a variety of different backgrounds. In particular, this should be an ideal opportunity for all mathematics students, both pure and applied, to broaden their background. At the end of the month long program we hope that students will go away with a deeper understanding of the profound unity and utility of the mathematical sciences.

Participants from the University of New Mexico will be encouraged to undertake a research project during the academic year 2008–2009, leading to an Honors thesis. Students from other universities are also invited to choose a problem of interest for further investigation, thereby allowing them to apply some of the techniques learned during the summer program.

In addition to the four University of New Mexico faculty teaching mini–courses over summer, four graduate student teaching assistants will serve as mentors throughout the program. More information about the mini–courses, funding, and the application process is available on line at

[/homes/math.unm.edu/mctp](http://homes/math.unm.edu/mctp)

Any questions or comments may be addressed to

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We especially encourage women and minority students to apply.