

**Department of Biological Sciences
MCMICKEN COLLEGE OF ARTS AND SCIENCES**

**SUMMER RESEARCH OPPORTUNITIES
FOR UNDERGRADUATE WOMEN**

APPLICATION DEADLINE: March 1, 2006

The Department of Biological Sciences is pleased to offer the following research project for the summer of 2006. Interested students are urged to contact the faculty member(s) directing the project that most interests them. By contacting the faculty member, you can discover more about the project, learn what your responsibilities will be and if possible, develop a timetable for the twelve-week research period.

HUMAN GENETICS RESEARCH

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Human Genetics Education Research: In conjunction with the American Society of Human Genetics (ASHG), we are interested in determining the impact of various undergraduate biology courses on improving genetic literacy. These courses are primarily for non-science majors, and are primarily within the University of Cincinnati, but also include other undergraduate institutions in the Cincinnati region. They consist of both general biology and genetics courses, with baseline data coming from both non-biology courses, and pre-course survey data. Given our definition of genetic literacy, we are developing concepts which are embodied by this definition, and for each of these concepts, questions that will help measure the level of student understanding both pre-course and post-course. The research for a WISE student will involve helping to develop these concepts and questions, data collection, collation, and analysis. WISE students participated in this research effort in 2003 and 2004.