

Stacy Bamberg  
Mechanical Engineering  
[sbamberg@eng.utah.edu](mailto:sbamberg@eng.utah.edu)

#### SUMMARY OF PROJECT:

Students in Mechatronics (ME3200 and ME3210) work on a team project, resulting in an autonomous robot. Each team currently receives a Handy Board to use for programming and control of the robot; electrical components and prototyping tools are available to them in the class lab.

I propose to supply each team with an Expansion Board and a multimeter, and to provide each student with an electronics kit. The Expansion Board would provide added functionality to the Handy Board, to allow students to gain more experience with different types of actuators and sensors. The multimeter would allow teams to evaluate their circuits and sensors outside of the class lab. The electronics kit, containing a solderless breadboard and an assortment of electrical components (wire jumpers, resistors, capacitors, op-amps, etc.) would allow each student to prepare circuits pertaining to the weekly lab at home, and would also allow them to prototype circuits for their robots outside of the class lab.

Philip Dennison  
Geography  
[dennison@geog.utah.edu](mailto:dennison@geog.utah.edu)

**SUMMARY OF PROJECT:**

A new course to be offered in Spring 2006 fulfills a critical need for a remote sensing course that covers fundamental physical interactions between light and matter. A laboratory component of this course will permit students to investigate hands-on applications of the theory learned in lecture. Funding is requested to purchase supplies for the lab component of Geography 5120/6120, Environmental Optics. I will use these supplies to construct the necessary lab instruments in my free time. The labs developed with this funding will expose students to experimental observation and support the content of four additional remote sensing courses in Geography and Meteorology. Students in a variety of majors, including Anthropology, Civil and Environmental Engineering, Geography, Geology and Geophysics, Meteorology, and Masters of Science and Technology who are intensely interested in remote sensing techniques and applications will benefit from the support of this lab component.

Justin Diggle  
Art and Art History  
[justindiggle@hotmail.com](mailto:justindiggle@hotmail.com)

#### SUMMARY OF PROJECT:

The proposal is to bring in a visiting artist to work on a collaborative Printmaking/Digital action installation with students that includes video projection and give-away prints.

The students will be responsible for creating a series of images that relate to a chosen theme and that uses a variety of printmaking and digital print media. This will be collaboratively scanned, manipulated, and overprinted during the length of the project.

During the class meetings, students will also work collaboratively with the artist to create a series of large compositions that will be incorporated with video into a large-scale installation. Students will also create a series of small 4x5 inch give-away prints to give viewers of our exhibition.

Students will be responsible for finding methods to get the viewer to interact with the installation and get the give-away prints into the hands of the viewer.

Andrew Franta  
English  
[a.franta@english.utah.edu](mailto:a.franta@english.utah.edu)

**SUMMARY OF PROJECT:**

I am seeking funding to develop a study abroad course for the English Department's London Program on the British poet and artist William Blake. This grant would support two weeks' research in London, which would be integral to development of the course I envision. The course would combine the study of Blake's poetry in conjunction with his work as a printmaker. Blake's artisanal method and political imagination make material culture and historical context particularly important to the study of his works; studying Blake in London would give students first-hand access to the wide range of Blake's poetic and artistic productions and allow them to explore the complexity of his practice as an artist. In addition, this preparation would allow me to satisfy very strong student interest in Blake by offering courses on Blake here at the University of Utah on both the undergraduate and graduate levels.

Pamela Geber  
Modern Dance  
[p.geber@utah.edu](mailto:p.geber@utah.edu)

**SUMMARY OF PROJECT:**

We are applying to the University Teaching Committee to fund attendance and participation in the Seattle Festival for Alternative Dance and Improvisation (SFADI) to be held August 1-7, 2005 at the Velocity Dance Center in Seattle. The subject areas within this festival are particularly relevant to many aspects of our current teaching assignments in the Department of Modern Dance. In a collection of classes, we will have opportunities to study from several of the world's leading innovators in contemporary dance and improvisation. We will engage in group discussions addressing contemporary dance in addition to seeing performances by a number of internationally renowned dance and performance artists. In the interest of enhancing our own information-base as educators, attendance at this festival is timely and important.

Barbara Nash  
Geology and Geophysics  
[bpnash@earth.utah.edu](mailto:bpnash@earth.utah.edu)

#### SUMMARY OF PROJECT:

We propose to institute a new general education science course with the ultimate goal of enabling students to make informed choices in their lives. The course is specifically designed to 1) increase critical thinking skills, 2) enhance understanding of science as a human activity, 3) explore how science-based conclusions are translated into public policy, and 4) increase awareness about natural disasters.

We intend to adapt a very successful course “Natural Disasters – Hollywood versus Reality” developed by Dr. Kevin Furlong at Pennsylvania State University. The proposed course will investigate a variety of natural hazards and disasters including earthquake, hurricane, flood, volcanic eruption, tsunami and boloid impact. The course will use the popular media as a springboard for discussion and the development of tools for analyzing the causes of disasters. The course is specifically designed to engage students not only through the examination of topics relevant to their lives, but also by directly involving students in the educational process.

Kathy Pope  
School of Music  
[kathy.pope@music.utah.edu](mailto:kathy.pope@music.utah.edu)

SUMMARY OF PROJECT:

I am applying for a Teaching Grant in the amount of \_\_\_\_\_ to help with the cost of recording and publishing a CD of little known French clarinet music. Centaur Records has agreed to publish this recording. The full cost of the project is \_\_\_\_\_.

This CD will help provide an interest in a more diverse repertoire for the clarinet students at the University of Utah as well as giving me a firm foundation for teaching them.

(This Grant was partially funded)

Jackie A. Smith  
Nursing  
[jackie.smith@nurs.utah.edu](mailto:jackie.smith@nurs.utah.edu)

**SUMMARY OF PROJECT:**

The purpose of this group teaching grant proposal is to integrate PDA technology into the College of Nursing undergraduate nursing curriculum. This project will allow 16 clinical faculty to introduce and teach PDA methodologies in the classroom and at the patient bedside. The ultimate goal is to integrate and optimize the use of PDA referencing and decision-making capabilities for student nurses for use when they become registered nurses working in patient care. The total cost of this one-year project is \_\_\_\_\_ for 16 PDAs and nursing software applications for use in the clinical teaching environment. This project will enhance classroom and clinical activities with students applying PDA technology as an effective part of the teaching/learning experience. Evaluation data from this project will be used by the project team and College of Nursing faculty to recommend optimal PDA/software packaging requirements for all undergraduate nursing students.

Cynthia Stark  
Philosophy  
[cstark@philosophy.utah.edu](mailto:cstark@philosophy.utah.edu)

**SUMMARY OF PROJECT:**

I am requesting funds to employ a graduate student to oversee the video streaming of a number of films and some film clips onto WebCT sites for several philosophy courses. The student would interact with the TAC center, which will undertake the technical aspects of the streaming, obtain copyright permissions, track down the relevant DVD's and videos and take care of any other tasks related to the project. Having these films available will enhance both teaching and learning in several ways. First, the instructor will be able to access easily, in class, various scenes from the assigned films for the purpose of class discussion. Second, students will be able to take quizzes on WebCT that ask them to watch and discuss a scene from the film. Third, the instructor will not need to use class time to screen the films in their entirety, as is currently the practice.