

## **Special Undergraduate Course Opportunities in Design: Spring 2010**

**Medical Device Design for the Third-World:** A novel design has been proposed for a simple, re-usable medical device that could have a significant influence on newborn infant health care in the Third-World. In order to move this concept forward from the conceptual design phase, a team of two mechanical engineering students will be formed to conduct a design implementation study on the product. Guidance will be provided by the conceptual developers but the engineers will have the opportunity to explore a wide range of technical issues related to the practical implementation of the concept. The engineering design and feasibility studies will require configuration and part design, material selection, design of mechanisms, and thermal and stress analysis. Participants will be expected to participate in a regularly scheduled 1-hour meeting each with the project coordinator and devote approximately 10 hrs per week to the project. Interested students can contact S. Batill, [batill@nd.edu](mailto:batill@nd.edu) for more information on this project.

**Interdisciplinary Design Project:** A team of 10 Notre Dame students will be formed to explore issues and gain experience in interdisciplinary design by participating in a team-based design project. The 10-person design team will be composed of 2-3 students each from engineering, business, industrial design and psychology. The team will be exposed to all phases of the concept design and innovation process. The project team will work with a local health care provider and design professionals during the semester as they work through the first phases of the product design process to develop an innovative healthcare concept. All team members will be required to meet from 9:30-11:30 WF and also expected to devote an additional 6 hours per week to this effort. Interested students can contact S. Batill, [batill@nd.edu](mailto:batill@nd.edu) for more information on this project.