



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Design Principles and Biomedical Research at Nanjing University

ENGR 5797.19

Credit Hours:

3.00 - 3.00

Course Components:

Field Experience

Course Description:

Internationalized medical device design course. Introduction to design principles; needs finding, idea generation, and presentation of projects that focus on helping persons with medical based problems. Documentation and technical skills are developed throughout the course. Activities in team-building, cultural awareness and global engineering are emphasized throughout the course.

Prerequisites and Co-requisites:

Prereq: Math 2177, or 2174, or 2255 and 2568, or 2415 and 2568, or for CSE students 2568; Jr or Sr standing in the College of Engineering; and permission of instructor.

Course Goals / Objectives:

- Students will work effectively in cross-cultural teams, including communication. Students will learn engineering skills and device testing methods.
- Students will be able to take a problem from idea to drawing and physical prototype form using modern engineering tools. Students will develop the cultural perspective and identify skills of other team members to solve design problems.