BIOMEDICAL **ENGINEERING**

BME

College of Engineering

Biomaterials and Biocompatibility 425

Spring. 3(3-0) Interdepartmental with Materials Science and Engineering. Administered by Materials Science and Engineering. P: MSE 250 RB: PSL 250 R: Open to juniors or seniors in the College of Engineering. SA: BME 424, MSE 324

Materials science of human implants. Design requirements imposed by the human body, and need for bodily protection.

490 Independent Study

Fall, Spring. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Individualized reading and research in biomedical engineering or bioengineering

Independent Study in Clinical 490A

Biomechanics

Fall. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. Individualized reading and research in the application of biomechanics to clinical cases.

Independent Study in Biomaterials 490B

Spring. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. Individualized reading and research in the applica-

tion of biomaterials.

491 **Special Topics**

Fall, Spring. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

Special topics in biomedical engineering or bioengineering.

495 **Tissue Mechanics**

Spring. 3(3-0) Interdepartmental with Mechanical Engineering. P: (ME 222) R: Open to students in the College of Engineering. SA: MSM 441

Application of solid mechanics to understanding mechanical responses of biological tissues. Microstructure and biological function for soft and hard connective tissues and muscle.

497 **Biomechanical Design in Product**

Development Spring. 3(3-0) Interdepartmental with Mechanical Engineering. Administered by Mechanical Engineering. P: ME 371 or concurrently R: Open to juniors or seniors in the Department of Mechanical Engineering. SA: BME 491A, MSM 445

Biomechanical product design with application to people or animals. Synthesis, prototyping, and analysis of designs. Project management. Market research.