ANNOUNCING EXPANDED ENROLLMENT!

BMEn 2151 “Introductory Medical Device Prototyping”
Prof. Steven S. Saliterman
Department of Biomedical Engineering
Course Website: http://saliterman.umn.edu/
Class 1: M, W 10:10 a.m. – 11:00 a.m., Th (lab) 10:10 a.m. – 12:05 a.m.
Class 2: M, W 1:25 p.m. – 2:15 p.m., F (lab) 2:30 p.m. – 4:25 p.m.
(Registration: Class 1 is Section 001-LEC + 002-LAB, Class 2 is Section 003-LEC + 004-LAB)
Lectures & Lab are in the Earl Bakken Medical Devices Center
Spring ● 3 Credits

Lectures on...
- Design opportunities in medicine
- Engineering drawing with Solidworks
- 3D printing (FDM, polyjet and bio) and laser cutting
- Modeling anatomical structures
- Lathe, mill, and other shop instruction
- Biomaterials & biocompatibility
- Digital and analog electronics, simulation software & test equipment
- Programming microcontrollers in C
- Microcontroller, sensor and actuator hardware
- Medical device innovation and regulation

Lab... Thursday/Friday is a mix of discussion, lab exercises and shop time. You will need a laptop computer capable of running Solidworks.

Note... This course is open initially to BME sophomore students in the spring semester. All sophomore, junior and senior students in CSE and AHC may request permission to attend beginning 12/1.