

BME 5151 “Intro to BioMEMS & Medical Microdevices”

Department of Biomedical Engineering, University of Minnesota

Team Presentation

Purpose: To study further a particular bioMEMS concept or device that you are interested in.

Format: Team presentation of 4 students as a 20 minute Power Point® presentation at the end of the semester. Submitting a paper is not required, although you may wish to distribute a handout. A brief class discussion will follow each talk.

Description: Propose a new bioMEMS device, or expand upon a previously published device or useful methodology. Discuss the purpose of your concept, and if appropriate, the theory (what principles are at work), fabrication (materials and techniques), testing, limitations, and biocompatibility of your device.

When: The TA will assist you in forming groups two weeks before Spring Break. You will submit a topic title just before the break, and will present during the last month of class. There will also be some class time to meet and discuss your project.

Resources: I encourage you to use the University library databases and retrieve original peer reviewed works. Most articles of value in this field will not be found for “free” on a Google search. <https://www.lib.umn.edu/>

Assistance: The TA will be coordinating teams and topics, helping with resources and fielding most questions. Feel free to call or e-mail Dr. Saliterman with questions. Let the TA know if you are having trouble joining a team or finding resources.

Grading: Your presentation and participation in the discussions will count towards 20% of your final grade. Special grading consideration will be given to undergraduate students in the course.