

**BE 465/466: Senior Design Projects in Biomedical Engineering  
Boston University 2009/2010**

**Professor: Irving J. Bigio**

**MEETING TIMES: Fridays 11:00 am-1:00 pm in Photonics 206, 8 St. Mary's St.**

BE 465 is taught in coordination with BE 467 (Design, Development, Marketing and Entrepreneurship in Biomedical Engineering - taught in the Fall). BE 465 and BE 466 educate students on how to approach, organize, develop, perform and communicate an independent design project. Students work in teams of two or three, and each team works with a specific technical advisor.

**Semester I:** Students will learn how to initiate an open-ended project, identify its primary goals and specific aims, learn the basic methodologies to be used, establish potential solutions to achieve the aims, identify the design elements and specifications, and learn technical communication skills at the level of proposal writing and oral communication. Students will develop and defend a proposal that addresses technical methodologies in detail, and will generate a project plan with verifiable milestones.

**Semester II:** Students will complete the technical work outlined in their proposals and learn additional technical communication skills at the level of progress reports, final report writing, and oral presentation at a formal conference.

**Grading:**

**BE 465:** Technical Achievement 35%, Proposal 30%, Oral Proposal Presentation 20%, Course Assignments 15%

**BE 466:** Technical Achievement 45%, Final Report 20%, Oral Conference Presentation 25%, Course Assignments 10%

**Faculty Course Team (in addition to Professor Bigio):**

Eight to nine other BME professors will provide grading and guidance for groups of approximately 10 students each.

**Textbooks:**

Handbook of Technical Writing, Alred, Brusaw and Oliu

Schaum's Outlines, Probability and Statistics, 3<sup>rd</sup> Edition, Spiegel, Schiller and Srinivasan

**Contact Information:**

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