The spring freshman Biological and Agricultural Engineering course at the University of Arkansas

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The objective of this presentation is to report on the content of the spring semester Biological Engineering freshman design class. In this class, contact with students is done through a 60-minute lecture that is interfaced with a 170-minute laboratory. This freshman class is the second of our design studio sequence that extends through to the senior year. The purpose of the class is to introduce the students to design, namely through the understanding of the problem, pertinent brainstorming, creation and evaluation of alternatives and, its prototyping. Throughout the semester, the students practice their design skills on three sequential projects. This presentation will go over typical roadblocks encountered by Biological Engineering freshman, while tackling the design problems.