

**TO:** The Engineering Faculty

**FROM:** The Faculty of the School of Agricultural and Biological Engineering

**RE:** Senior Design Course Description Updates – ABE 48500, 48600

The Faculty of the School of Agricultural and Biological Engineering has approved updated course descriptions for the following courses. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**FROM:**

**ABE 48500 Agricultural Engineering Project Management And Design Sem 1, Class 1, Lab Prep 1, Lab 6, Cr. 4.** Prerequisites: ABE 32500 and ABE 33000

Review of information relative to project planning and execution in industry, including budgeting, intellectual property rights, contract and timelines. Machine or system environmental design projects, team or individual, related to contemporary or potential problems in agricultural engineering. Typically offered Fall Spring Summer. Credits: 4.00

**TO:**

**ABE 48500 Agricultural Engineering Project Management And Design Sem 1, Class 1, Lab Prep 1, Lab 6, Cr. 4.** Prerequisites: ABE 32500 and ABE 33000

Team based projects are completed during the semester and documented with a written report and oral presentations. Projects encompass a broad range of topics within agricultural engineering such as the design of environmental systems, machinery, precision agriculture and robotics, and student design competitions. Typically offered Fall. Credits: 4.00

**FROM:**

**ABE 48600 Agricultural Engineering Design Sem 2, Lab Prep 2, Lab 6, Cr. 3.**  
Prerequisites: ABE 48400

Review of topics relevant to project planning and execution in industry, including technical communication, budgeting, team management, intellectual property rights, contracts and timelines. Students will select a Capstone project and assemble a project proposal within a team environment. Typically offered Spring. Credits: 3.00

**TO:**

**ABE 48600 Agricultural Engineering Design Sem 2, Lab Prep 2, Lab 6, Cr. 3.**  
Prerequisites: ABE 48400

Students implement, test, refine, present, and deliver the capstone project solution proposed in ABE 48400. Team based projects are completed during the semester and documented with a written report, poster presentation, and oral presentations. Projects encompass a broad range of topics within agricultural engineering such as the design of environmental systems, machinery, precision agriculture and robotics, and student design competitions. Typically offered Spring. Credits: 3.00

**Reason:** These course description updates for ABE 48500 and ABE 48600 more accurately describe the nature and content of the courses.



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Head of ABE