Biosystems Engineering

Biosystems Engineers ensure that we have the necessities of life: safe and plentiful food to eat, pure water to drink, clean fuel and energy sources, and a safe, healthy environment in which to live. Therefore, the mission of the Department of Biosystems Engineering at Auburn University is to develop and disseminate engineering knowledge to solve problems in biological systems, natural resources and the environment. It meets the resident instruction portion of that mission through the offering of a degree program which leads to a Bachelor of Biosystems Engineering. Options in Ecological Engineering and Forest Engineering are also available under the Biosystems Engineering degree program.

The Department of Biosystems Engineering offers the only accredited degree in Biosystems Engineering in Alabama. It is committed to preparing students for productive professional careers in the biosystems industries and related natural resource and environmental systems sectors. Specific educational objectives of the Biosystems Engineering degree program are: (1) Graduates solve engineering problems such as those associated with the environment and natural resources, and the production, processing, storage, manufacture, utilization, and recycling of biological products; (2) Graduates develop solutions to problems that combine engineering and biological sciences; (3) Graduates develop environmentally and economically feasible and practical design solutions; and (4) Graduates expand the role of engineering in society; communicate effectively, practice in a professional and ethical manner; and provide leadership in the profession.

The three curriculum options (Biosystems Engineering, Ecological Engineering and Forest Engineering) are coordinated by the Samuel Ginn College of Engineering. Students should apply for admission to the Samuel Ginn College of Engineering and complete the appropriate pre-Biosystems Engineering curriculum option program.

See the Samuel Ginn College of Engineering section for curriculum model, admission and degree requirements.

Major

- Biosystems Engineering ([http://bulletin.auburn.edu/undergraduate/samuelginncollegeofengineering/departmentofbiosystemsengineering/biosystemsengineering_major](http://bulletin.auburn.edu/undergraduate/samuelginncollegeofengineering/departmentofbiosystemsengineering/biosystemsengineering_major))
- Biosystem Engineering (Ecological Engineering option) ([http://bulletin.auburn.edu/undergraduate/samuelginncollegeofengineering/departmentofbiosystemsengineering/ecologicalengineeringoption_major](http://bulletin.auburn.edu/undergraduate/samuelginncollegeofengineering/departmentofbiosystemsengineering/ecologicalengineeringoption_major))
- Biosystems Engineering (Forest Engineering option) ([http://bulletin.auburn.edu/undergraduate/samuelginncollegeofengineering/departmentofbiosystemsengineering/forestellengineering_major](http://bulletin.auburn.edu/undergraduate/samuelginncollegeofengineering/departmentofbiosystemsengineering/forestellengineering_major))