Biosystems Engineers ensure that we have the necessities of life: healthy food to eat, clean water to drink, renewable fuel and energy sources, and a 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.

Biosystems Engineering

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 program 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 Biosystems Engineering program curriculum is coordinated by the Samuel Ginn College of Engineering. Students should apply for admission to the Samuel Ginn College of Engineering and complete the Pre-Biosystems Engineering program.

Ecological Engineering Option

The Department of Biosystems Engineering offers an option in Ecological Engineering as part of the Bachelor of Biosystems Engineering degree. This option prepares students to solve environmental problems by applying engineering knowledge to natural ecological and biological systems. Ecological engineering combines basic and applied science from engineering, ecology, economics, and natural sciences to design, construct, and manage sustainable ecosystems that have value to both humans and the natural environment. The ecological engineering option is coordinated by the Samuel Ginn College of Engineering. Students should apply for admission to the Samuel Ginn College of Engineering and complete the Ecological Engineering option portion of the Pre-Biosystems Engineering program.

Forest Engineering Option

The Department of Biosystems Engineering in conjunction with the Samuel Ginn College of Engineering and School of Forestry and Wildlife Sciences offers an option in Forest Engineering as part of the Bachelor of Biosystems Engineering degree. This option prepares students for productive professional careers in the forest products industry and related natural resource and environmental systems sector.

The Forest Engineering option is coordinated by the Samuel Ginn College of Engineering and the School of Forestry and Wildlife Sciences, and is administered by the Department of Biosystems Engineering. Students can become registered foresters upon completion of a minor in forest resources.Beginning students should apply to the Samuel Ginn College of Engineering and complete the Forest Engineering option portion of the Pre-Biosystems Engineering program. Students pursuing the Forest Engineering option must meet School of Forestry and Wildlife Sciences requirements for admission to the Forestry Summer Field Practicum.

Major

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