

BACHELOR'S + MASTER'S

Combination Degree Program

The Combination Degree is a program through which highly qualified students work toward a Master of Engineering or Master of Science degree while obtaining their Bachelor of Science degree.

HOW IT WORKS

- 1 Talk to Your Academic Advisor.*

* 3.3 Upper Division GPA Required

- 2 Complete the 'Combination Degree Program Request' form.

- 3 Receive Approval.

- 4 Complete your graduate coursework during your junior and senior years.*

* Up to 12 credits of graduate coursework may be double-counted toward credit fulfillment of the BS and MS/ME degrees

Questions?

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UF | IFAS
UNIVERSITY of FLORIDA

AGRICULTURAL AND
BIOLOGICAL ENGINEERING



Bioprocess Engineering

Combines the Biological Engineering curriculum with a 30-hour Master of Science program to prepare students for a career in research and design of biobased products and technologies (e.g. food, feed, biofuels, biomaterials, biosensors, waste/wastewater resource recovery). Core courses will provide a foundation in bioprocess engineering and design, including coursework in instrumentation, statistics, and biosystems modeling.

Core Courses (21 Credits)

ABE 5442: Bioprocess Engineering (3)

ABE 5815C: Food and Bioprocess Engineering Design (4)

MCB 3020 & Lab: Basic Biology of Microorganisms (4)

ABE 5643C: Biological Systems Modeling (3)

ABE 6031: Instrumentation in Agricultural Engineering Research (3)

STA 6093: Introduction to Applied Statistics (3)

ABE 6931: Seminar (1)

Elective Courses (9 Credits)

AOM 6932: Advanced Intro to Biofuels (3)

ABE 6654C: Biobased Products from Renewable Resources (3)

ABE 5707C: Agricultural Waste Management (3)

ABE 6266: Nanotechnology in Water Research (3)

ABE 5038: Fundamentals and Applications of Biosensors (3)

ENV4514C: Water and Wastewater Treatment (3)

Other

Mentors

Dr. Ana Martin-Ryals, admartin@ufl.edu

Biological Engineering Undergraduate Coordinator

Dr. Pratap Pullammanappallil, pcpratap@ufl.edu

Associate Professor