

Photosynthesis & Photobiology

Students majoring in:

Bioengineering

Biology

Botany

Environmental Sciences

Forestry

Horticulture

Oceanography

Students interested in:

Natural Plant Communities

Crops / Food Production

Phytoplankton

Plant Adaptations

Light in Biological Systems

Plant Stress

Climate & Productivity

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"It is more than a figure of speech to say that plants create life out of thin air."

- Michael Pollan

Photosynthesis and Photobiology 480/580

This course explores how light fuels life on Earth, the amazing strategies that photosynthetic organisms have evolved to optimize growth in variable environments, how plants regulate light absorption, gas exchange, and water loss and how they protect themselves from harmful light exposure, and how humanity has used fundamental properties of photosynthesis for purposes ranging from improving crop production to monitoring primary production on the global scale as it responds to climate variations and change.

Prerequisites are: One course in plant physiology or ecology, or permission of instructor.