College of Natural Science
MICHIGAN STATE UNIVERSITY

Biotechnology and Plant Biochemistry Spring 2026

BMB/PLB 864

BMB/PLB 864 is an interdisciplinary course for graduate students with interest in biotechnology applications using Plant Biology, Biochemistry or Synthetic Biology. Despite building on cases from plant biotechnology, this course explicitly invites students with broad interests outside the field of photosynthetic systems. You will be encouraged to think about, and actively develop concepts and ideas that may have the potential for commercialization.

The following is *recommended* background: Interest in biotechnology applications using Plant Biology, Biochemistry or Synthetic Biology, basic knowledge in molecular biology, genomics, or biochemistry as demonstrated by having completed at least one of the following, or equivalent graduate level classes: BMB801 molecular genetics or BMB961 genomics or BMB865 plant molecular biology.

Enrolled in a graduate program related to biomolecular sciences, plant molecular sciences, biochemistry, Cell & Molecular Biology, Microbiology & Molecular Genetics or Genetics & Genome Sciences Program. Students from Chemical Engineering and Chemistry are welcome but will need to ask for an override.

Enthusiastic senior undergraduate students have contributed appreciably to the course in the past. They are encouraged to request an override after consultation with Dr. Hamberger. (hamberge@msu.edu). Here is a link to the online override form: https://overrides.natsci.msu.edu/

Credit Hours Total Credits: 3
Meetings: Tuesdays and Thursdays 1:00-2:20; Course location: MPS 3220
Course website: T.B.A.
The course is affiliated with the T32 Plant Biotechnology for Health and Sustainability program.