



Twin Cities Campus

Bioproducts Engineering Minor

Bioproducts and Biosystems Engineering

College of Food, Agricultural and Natural Resource Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 14

This program provides students with a strong background in the basic sciences and engineering and their application to manufacturing and end-use applications of materials, chemicals, and energy from renewable resources.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Minor Courses

Take 14 or more credit(s) from the following:

- [BBE 4302](#) - Biodegradation of Bioproducts (3.0 cr)
- [BBE 4303](#) - Introduction to Bio-based Materials Science (3.0 cr)
- [BBE 4305](#) - Pulp and Paper Technology (3.0 cr)
- [BBE 4401](#) - Bioproducts Separation and Purification Processes (3.0 cr)
- [BBE 4402](#) - Bio-based Products Engineering Lab II (2.0 cr)
- [BBE 4403](#) - Bio-based Products Engineering Lab I (2.0 cr)
- [BBE 4404](#) - Biopolymers and Biocomposites Engineering (3.0 cr)
- [BBE 4502W](#) - BBE Capstone Design [WI] (4.0 cr)
- [BBE 4713](#) - Biological Process Engineering (3.0 cr)
- [BBE 4723](#) - Food Process Engineering (3.0 cr)
- [BBE 4733](#) - Renewable Energy Technologies [TS] (3.0 cr)
- [BBE 4001](#) - Chemistry of Biomass and Biomass Conversion to Fuels and Products [ENV] (4.0 cr)
or [CHEM 4001](#) - Chemistry of Biomass and Biomass Conversion to Fuels and Products [ENV] (4.0 cr)
- [BBE 4301](#) - Applied Surface and Colloid Science (3.0 cr)
or [CHEM 4301](#) - Applied Surface and Colloid Science (3.0 cr)