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 2020
- 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)

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