

Bioenergy and Sustainable Technology Graduate Certificate

The AG*IDEA Distance Option - The Bioenergy and Sustainable Technology Graduate Certificate is offered through the Great Plains Interactive Distance Education Alliance (Great Plains IDEA) Website: <http://agidea.org>

The Great Plains IDEA is a consortium of universities offering fully online graduate programs. Each university brings a unique strength to the multi-institution academic programs. In a multi-institution degree program, you apply, and are admitted at one university; enroll in all your courses at that university; and, graduate or receive a certificate from that university. However, your online courses are taught by the best faculty in the discipline from several universities.

The graduate certificate is offered by the following universities:

- University of Arkansas
- Kansas State University
- Oklahoma State University
- South Dakota State University



This brochure provides information for students choosing K-State as their home institution. For more information about application procedures at the University of Arkansas, Oklahoma State University, or the South Dakota State University please go to the AG*IDEA website listed above.

The graduate certificate program is comprised of 15 hours of coursework with a core course requirement of nine semester hours to understand and appreciate the broad implications of a biobased economy and learn to communicate, interact and collaborate in this area. Students select two additional three credit courses to obtain a knowledge base in a specific discipline within a field of either feedstock, conversion, or sustainability. See back page.

Students will have completed a baccalaureate degree in agriculture, engineering, business, physical sciences, biological sciences, or social sciences. A minimum of 3.0 GPA (on a 4.0 scale) is required for entry into the graduate program. Please refer to the Admission Requirements and Application Procedures in the Kansas State University Graduate School Handbook.

Courses taken for undergraduate credit cannot count for graduate credit.

For more information about this certificate please contact: [Keith Rutlin](mailto:rutlin@ksu.edu) Educational Programs Administrator, Email: rutlin@ksu.edu, telephone: 785-532-2029



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Required (9 credits)

- CHE/BAE 642 Conversion Overview (3 credits)
- AGRON 642 Bioenergy Feedstock Production (3 credits)
- AGEC 750 Bioenergy Economics & Sustainability (3 credits)

Electives (6 credits)

- CHE 842 Advanced Biomass Thermochemical Conversion (3 credits)
- CHE 715 Biochemical Engineering (3 credits)
- CHE 626 Bioseparations (3 credits)
- GRSC 745 Fundamentals of Bioprocessing (3 credits)
- AGRON 670 Soil and Water Quality (3 credits)
- AGRON 600 Crop Modeling (3 credits)
- AGEC 750 Bioenergy & Resource Economics (3 credits)
- CDPLN 725 Community & Natural Resources (3 credits)
- AGEC 750 Feasibility & Commercialization (3 credits)
- CHE 670 Sustainability Seminar (1 credit)

Total credits completed: _____ **(15 Required)**

K-State students admitted to the Bioenergy and Sustainable Technology Graduate Certificate program through the Great Plains IDEA who have completed the above listed requirements should file the "Certificate Completion Form." This form should be submitted via email to the K-State Campus Coordinator at gpideacc@ksu.edu.