

Status: PENDING

PROGRAM REQUEST
Bioenergy

Last Updated: Pfister, Jill Ann
02/05/2012

Fiscal Unit/Academic Org	Arts & Science & Business Tech - D0881
Administering College/Academic Group	Food, Agric & Environ Science
Co-administering College/Academic Group	
Semester Conversion Designation	New Program/Plan
Proposed Program/Plan Name	Bioenergy
Type of Program/Plan	Undergraduate certificate program
Program/Plan Code Abbreviation	BIOENRG
Proposed Degree Title	Certificate in Bioenergy

Credit Hour Explanation

Program credit hour requirements		A) Number of credit hours in current program (Quarter credit hours)	B) Calculated result for 2/3rds of current (Semester credit hours)	C) Number of credit hours required for proposed program (Semester credit hours)	D) Change in credit hours
Total minimum credit hours required for completion of program				32	
Required credit hours offered by the unit	Minimum			32	
	Maximum			32	
Required credit hours offered outside of the unit	Minimum				
	Maximum				
Required prerequisite credit hours not included above	Minimum				
	Maximum				

Program Learning Goals

Note: these are required for all undergraduate degree programs and majors now, and will be required for all graduate and professional degree programs in 2012. Nonetheless, all programs are encouraged to complete these now.

- Program Learning Goals**
- Safely operate, troubleshoot, and maintain equipment for bioconversion processes (Aerobic and anaerobic fermentation conditions and processes)
 - Analyze and evaluate the composition of feedstocks and the potential energy output.
 - Demonstrate knowledge of collection, procurement, and transport of feedstocks and byproducts.

Assessment

Assessment plan includes student learning goals, how those goals are evaluated, and how the information collected is used to improve student learning. An assessment plan is required for undergraduate majors and degrees. Graduate and professional degree programs are encouraged to complete this now, but will not be required to do so until 2012.

Is this a degree program (undergraduate, graduate, or professional) or major proposal? No

Program Specializations/Sub-Plans

If you do not specify a program specialization/sub-plan it will be assumed you are submitting this program for all program specializations/sub-plans.

Pre-Major

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Does this Program have a Pre-Major? No

Attachments

- Bioenergy Certificate cur map.docx: Curricular Map
(Curricular Map(s). Owner: Lambert, Peggy E)
- Bioenergy Certificate Proposal Letter 1 2012.doc: Proposal Letter
(Letter from Program-offering Unit. Owner: Lambert, Peggy E)
- Bioenergy Certificate Proposal 11 9 2011.doc: Certificate proposal
(Program Proposal. Owner: Lambert, Peggy E)

Comments

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Lambert, Peggy E	02/02/2012 08:54 AM	Submitted for Approval
Approved	Neal, Steven Michael	02/02/2012 08:54 AM	Unit Approval
Approved	Neal, Steven Michael	02/02/2012 08:55 AM	SubCollege Approval
Approved	Pfister, Jill Ann	02/05/2012 10:33 AM	College Approval
Pending Approval	Smith, Kelly Bott Cameron, Erin Marie Soave, Melissa A	02/05/2012 10:33 AM	CAA Approval



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February 17, 2012

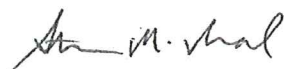
Dr. Jill Pfister, Assistant Dean
College of Food, Agricultural and Environmental Sciences
The Ohio State University
100E Agricultural Administration
2120 Fyffe Rd.
Columbus, OH 43210

Dear Dr. Pfister:

I am writing to request approval of a **new Certificate program entitled Bioenergy**. This certificate program is intended to provide traditional and non-traditional students a first step in the pathway to completing an Associate of Science degree in the Bioenergy specialization of ATI's Renewable Energy major. The courses composing this certificate are a subset of those required for the Bioenergy specialization of the Renewable Energy major.

The proposal was approved by the ATI Academic Affairs committee and by the ATI faculty. I am requesting approval of this certificate, effective autumn 2012, with the following major code – BIOENRG-CT. The associated fiscal code is 08810. If you need further clarification or justification, please contact me.

Sincerely,



Steven M. Neal, Ph.D.
Professor
Associate Director for Academic Affairs

Proposal to Establish a Certificate Program

Proposal: Establish a one-year certificate program entitled Bioenergy

Rationale:

1. The renewable energy industry forecasts that the need for trained technicians in the field of bioenergy will continue to increase as the nation faces a greater demand for energy and renewable energy sources.
2. It is anticipated that this certificate program would attract a population of traditional and non-traditional students who are not interested in earning an associate degree in Bioenergy.
3. The proposed program of study could serve as a first year requirement towards an associate of science degree in the bioenergy program at ATI.
4. Since the proposed Certificate Program is similar to the first year of the Associate of Science program in Bioenergy and requires other existing courses, no additional resources would be needed.
5. The proposed one year program of study meets the OBR requirements for a certificate as well as meeting the needs of individuals to pursue a career in the field of bioenergy.
6. The proposed certificate program was developed in collaboration with the Bioenergy Technology Advisory Committee and approved by the ASB Division faculty.

Bioenergy Certificate

Autumn

ENGLISH	1110.01*	First-Year English Composition	3
MATH	1148*	College Algebra	4
RURLSOC	1500	Intro. to Rural Sociology	3
RNEWNRG	2010T	Introduction to Renewable Energy	3
RNEWNRG	2189T	Renewable Energy Practicum	<u>2</u>
			15

Spring

CHEM	1210	General Chemistry I	5
BIOLOGY	1113	Bio Sci: Energy Transfer and Development	4
RNEWNRG	2020T	Bioconversion Systems	3
RNEWNRG	2030T	Biomass Feedstock Evaluation and Analysis	3
RNEWNRG	2189T	Renewable Energy Practicum	<u>2</u>
			17

Total **32**

*Depending upon placement test results

11/9/11

AA- Approved 11/10/11

Degree: Certificate
Program: Bioenergy
Plan Code: BIOENRG-CT

Curricular Map:

Bioenergy Certificate	Goal #1	Goal #2	Goal #3
RNEWNRG 2010T- Intro to Renewable Energy	B	B	
RNEWNRG 2020T - Bioconversion Systems	I/A		
RNEWNRG 2030T- Biomass Feedstock Evaluation and Analysis	I/A		I/A
RNEWNRG 2189T - Practicum	B/A	B/A	B/A
CHEM 1210 – General Chemistry I	B	B	B

B = Beginning, I = Intermediate, A = Advanced