

**From:** [Osborne, Jeanne](#)  
**To:** [Smith, Randy](#); [Hu, Wuyang](#); [Parkman, Anna](#)  
**Cc:** [Sutherland, Sue](#); [Reed, Katie](#); [Duffy, Lisa](#); [Hunt, Ryan](#); [Christy, Ann](#); [Sohngen, Brent](#)  
**Subject:** RE: Proposal to establish an undergraduate certificate (category 1a) in Sustainable Energy and the Economy  
**Date:** Thursday, October 17, 2024 9:58:29 AM  
**Attachments:** [SEE Certificate 2024 CORRECTED.docx](#)  
[image001.png](#)  
[image002.png](#)

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Dear Dr. Smith,

In the process of developing the curriculum sheet for this certificate, we identified course changes that occurred in the interim between submission of the proposal to the CAA last spring and approval this Autumn. Specifically, AEDECON 3113 has been updated to AEDECON 3114 (same title, same credit hours), and GEOG 3900 (3 cr) has been updated to GEOG 3900.01 (3 cr) or GEOG 3900.02 (4 cr) in the Sustainability Theme.

So that there is an official record of these corrections, we would like to submit the revised curriculum sheet to CAA as an information item (attached with corrections highlighted). I will be sharing this with the CFAES COAA as well at their next meeting.

If this update requires a full review and vote, please let me know and I will submit a full proposal.

Thank you so much, and if there are any questions, please let me know.

Take care,

Jeanne



*Jeanne M. Osborne* | *Pronouns: She, Her, Hers*

Assistant Dean for Academic Affairs  
College of Food, Agricultural, and Environmental Sciences  
100E Agricultural Administration, 2120 Fyffe Rd.  
Columbus, OH 43210  
Tel: 614-292-1734  
Fax: 614-292-1218  
e-mail: [Osborne.2@osu.edu](mailto:Osborne.2@osu.edu)

*'Unexpected kindness is the most powerful, least costly, and most underrated agent of human change'* (Bob Kerrey)

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**From:** Smith, Randy <[smith.70@osu.edu](mailto:smith.70@osu.edu)>

**Sent:** Wednesday, September 18, 2024 4:25 PM

**To:** Hu, Wuyang <hu.1851@osu.edu>; Parkman, Anna <parkman.6@osu.edu>; Osborne, Jeanne <osborne.2@osu.edu>

**Cc:** Sutherland, Sue <sutherland.43@osu.edu>; Reed, Katie <reed.901@osu.edu>; Smith, Randy <smith.70@osu.edu>; Duffy, Lisa <duffy.262@osu.edu>; Hunt, Ryan <hunt.781@osu.edu>; Christy, Ann <christy.14@osu.edu>

**Subject:** Proposal to establish an undergraduate certificate (category 1a) in Sustainable Energy and the Economy

Anna, Jeanne, and Wuyang:

The proposal from the College of Food, Agricultural, and Environmental Sciences to establish an undergraduate certificate (category 1a) in Sustainable Energy and the Economy program was approved by the Council on Academic Affairs at its meeting on September 18, 2024. Thank you for attending the meeting to respond to questions/comments.

No additional level of internal review/approval is necessary. This action will be included in the Council's next Annual Activities Report to the University Senate (July 2025).

The Office of the University Registrar will work you with any implementation issues.

Please keep a copy of this message for your file on the proposal and I will do the same for the file in the Office of Academic Affairs.

If you have any questions please contact the Chair of the Council, Professor Sue Sutherland (.43), or me.

Randy



**W. Randy Smith, Ph.D.**

Vice Provost for Academic Programs

Office of Academic Affairs

University Square South, 15 E. 15<sup>th</sup> Avenue, Columbus, OH 43201

614-292-5881 Office

[smith.70@osu.edu](mailto:smith.70@osu.edu)

**Assisted by:**

**Katie Reed**

Executive Assistant

(614) 292-5672

[reed.901@osu.edu](mailto:reed.901@osu.edu)

The Sustainable Energy and the Economy certificate (SEE) provides students with a comprehensive understanding of the emerging sustainable energy sector. Upon completion of this certificate, students will have critical analytical skills that will help them enter the sustainable energy sector and advance their careers. The SEE certificate requires a minimum of 13 credit hours drawn from core courses in sustainability and energy economics, combined with an elective based on student preferences that will allow tailoring of the certificate to specific fields.

**Prerequisite Courses for the Certificate:**

			<b>Credit Hours</b>
AEDECON	2001	or equivalent (ECON 2001.01)	3

**Required Courses (10 cr hr):**

			<b>Credit Hours</b>
AEDECON/ENR	2501	Introduction to Sustainability	4
AEDECON/INTSTS	4320	Energy, the Environment, and the Economy	3
AEDECON	4321	Sustainable Energy	3

**Additional Supporting Courses (select a minimum of 3 credits from the courses listed below):**

			<b>Credit Hours</b>
<b>AEDECON</b>	<b>3114</b>	Commodity Futures and Options Markets	3
AEDECON	3103	Principles of Agribusiness Finance	3
or BUSFIN	3120	Foundations of Finance	3
AEDECON	4310	Environmental and Natural Resource Economics	3
AEDECON	4330	The Sustainable Economy: Concepts and Methods	3
AVIATN	3000	Aviation Management and Marketing	3
BUSML	4255	Sustainability Marketing for Consumers, Firms & Society	3
BUSOBA	4253	Sustainable Operations	3
BUSOBA	4254	Projects in Sustainable Supply Chains	3
CRPLAN	2000	Introduction to City and Regional Planning	3
CRPLAN	3400	Planning for Sustainable Economic Development	3
ENVENG	3200	Fundamentals of Environmental Engineering	3
ENVENG	5600	Science, Engineering, and Public Policy	3
ENR	4450	Climate Change Policy	3
ENR	5210	US Environmental Impact Assessment	3
ENR	5211	International Environmental Impact Assessment	3
HISTORY	2911	The Climate Crisis: Mechanisms, Impacts, and Mitigation	4
PUBAFRS	3000	Public Policy Analysis	3
<b>GEOG</b>	<b>3900</b>	<b>Global Climate Change: Causes and Consequences</b>	<b>3</b>
or GEOG	3900.01	Global Climate Change: Causes and Consequences	3
or GEOG	3900.02	Global Climate Change: Causes and Consequences	4
GEOG	5301	Sustainable Transportation	3

**Restrictions and General Information**

1. A minimum 2.00 cumulative point-hour ratio is required in the Certificate course work; and a minimum grade of a C- is required for each course used to complete this Certificate.
2. A student is permitted to overlap up to 50% of credit hours between other degree programs (major, minor, other certificates, or GE).
3. Course work graded Pass/Non-Pass cannot count in the Certificate program and no more than 3 credit hours of course work graded Satisfactory/Unsatisfactory may count toward the Certificate.
4. No more than 3 credit hours of 3488 (Professional Development in Animal Sciences), 4193 (Individual Studies), 4189 (Field Experience), 4999 (Research with Distinction), or 4999H (Honors Research with Distinction) may count toward the Certificate.
5. A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination toward the Certificate program.
6. At least 12 total credit hours counting in the Certificate must be earned in regular OSU coursework.
7. Consult with Advisor for filing deadlines. Advising Contact: Kassie Kurzahls, Undergraduate Advisor for AED Economics, [Kurzahls.7@osu.edu](mailto:Kurzahls.7@osu.edu).

**Notes:**

Students in the EEDS Sustainability and Business, or environmental economics and policy tracks are required to take AEDE/ENR 2501, AEDE 4310 AEDE/IS 4320, AEDE 4330, and AEDE 3103 or BUSFIN 3120. Either AEDE 2001 or ECON 2001.01 is required for AEDE 4310 and AEDE/IS 4320. These students can only double count two courses for the major and the certificate.

EEDS minor students must take AEDE/ENR 2501 and can double count two courses for the minor and the certificate. Students in the Agribusiness and Applied Economics degree can double count AEDECON 3103 or 3114.

**Prerequisites for courses in the certificate:**

- PUBAFRS 3000 requires ECON 2001.01, 2001.02 or 2001.03, or AEDE 2001, as well as the GE Data Analysis course as a prerequisite.
- AVIATN 3300 requires AVIATN 2000 and 2100. Students in Aviation can double count AVIATN 3000.
- ENVENG 3200 requires CHEM 1210 or 1250 and enrollment in the Civil or Environmental Engineering major, or Environmental Engineering minor.
- BUSML 4255 requires BUSML 3250 or AEDECON 3102.
- BUSOBA 4253 requires BUSOBA 2320,2321, 3230, AcctMIS 2200, 2300, and BUSMHR 2292.
- BUSOBA 4254 requires BUSOBA 3230 or BUSML 3380 or AEDECON 3105.
- CRPLAN 3400 requires Econ 2002.01, .02, or 0.03H, or AEDECON 2001.