



University Council

March 10, 2023

UNIVERSITY CURRICULUM COMMITTEE – 2022-2023

Susan Sanchez, Chair

Agricultural and Environmental Sciences – Kylee Duberstein

Arts and Sciences – Jonathan Haddad (Arts)

Rodney Mauricio (Sciences)

Business – Jim Carson

Ecology – Amanda Rugenski

Education – David Jackson

Engineering – Kun Yao

Environment and Design – Ashley Steffens

Family and Consumer Sciences – Sheri Worthy

Forestry and Natural Resources – Joseph Dahlen

Journalism and Mass Communication – Dodie Cantrell-Bickley

Law – Randy Beck

Pharmacy – Michelle McElhannon

Public and International Affairs – Rongbin Han

Public Health – Pamela Orpinas

Social Work – Harold Briggs

Veterinary Medicine – Shannon Hostetter

Graduate School – Christof Meile

Ex-Officio – Provost S. Jack Hu

Undergraduate Student Representative – Kate Lindgren

Graduate Student Representative – Yehia Abdelsamad

Dear Colleagues:

The attached proposals from the College of Engineering to terminate the following areas of emphasis under the major in Agricultural Engineering (B.S.A.E.) will be agenda items for the March 17, 2023, Full University Curriculum Committee meeting:

Area of Emphasis in Electrical and Electronic Systems

Area of Emphasis in Natural Resources Management

Area of Emphasis in Process Operations

Sincerely,

Susan Sanchez, Chair

cc: Provost S. Jack Hu

Dr. Marisa Pagnattaro

## PROPOSAL FOR TERMINATION OF AN AREA OF EMPHASIS

**Date:** February 23, 2023

**School/College:** College of Engineering

**Department/Division:** School of Environmental, Civil, Agricultural, and Mechanical Engineering

**Area of emphasis to be terminated:** Electrical and Electronic Systems

**Major(s) and degree(s) the area of emphasis is offered under?** Agricultural Engineering (B.S.A.E.)

**Which campus(es) offer this area of emphasis?** Athens

**Proposed effective date:** Fall 2023

**Last date students will be admitted to this area of emphasis:** Spring 2023

**Last date students will complete this area of emphasis:** Spring 2024

**Provide a brief summary of the area of emphasis being proposed for termination.**

This area was designed for students interested in providing electrical and electronic systems technical services to the production and post-farmgate process areas in agriculture.

**1. Why is this area of emphasis being proposed for termination?**

A national committee was convened in 2018 to revise the Agricultural Engineering (B.S.A.E.) curriculum in light of the formation of the College of Engineering at UGA. The revisions included updated areas of emphasis. Existing areas of emphasis were left in the curriculum for the benefit of students in the program. A revised area of emphasis, Agricultural Systems Automation Engineering, provides new courses and eliminates courses no longer taught or practically available due to prerequisite changes. The School now proposes to streamline the curriculum by removing the Electrical and Electronic Systems area of emphasis and directing students towards Agricultural Systems Automation Engineering.

**2. What will be done to ensure that termination of the area of emphasis does not weaken the major(s) under which it is offered?**

The renamed area of emphasis strengthens the major by adding new engineering offerings and structure that will help advisors and students in course scheduling. The new area of emphasis prepares students to address robotic and Internet of Things-related engineering problems (production and post-farmgate) to be faced in the future.

**3. How will faculty and staff be notified of the termination? Will termination of the area of emphasis have any impact on the faculty and staff offering the area of emphasis?**

The Agricultural Engineering faculty voted to accept the termination. The College of Engineering curriculum committee has voted to proceed with the changes. There will be no impact to the Agricultural Engineering faculty as their teaching loads will not be affected.

**4. How will students be notified of the termination? How will students currently in the area of emphasis be advised to complete the requirements?**

Students enrolled in this area of emphasis will be allowed to graduate under this area. Incoming students to the program will be informed of the termination and availability of a revised area of emphasis at advising sessions.

**5. What plans, if any, are there for subsequent reactivation of the area of emphasis?**

None.

## PROPOSAL FOR TERMINATION OF AN AREA OF EMPHASIS

**Date:** February 23, 2023

**School/College:** College of Engineering

**Department/Division:** School of Environmental, Civil, Agricultural, and Mechanical Engineering

**Area of emphasis to be terminated:** Natural Resources Management

**Major(s) and degree(s) the area of emphasis is offered under?** Agricultural Engineering (B.S.A.E.)

**Which campus(es) offer this area of emphasis?** Athens

**Proposed effective date:** Fall 2023

**Last date students will be admitted to this area of emphasis:** Spring 2023

**Last date students will complete this area of emphasis:** Spring 2024

**Provide a brief summary of the area of emphasis being proposed for termination.**

This area was designed for students interested in providing technical services to the agricultural production sector.

**1. Why is this area of emphasis being proposed for termination?**

A national committee was convened in 2018 to revise the Agricultural Engineering (B.S.A.E.) curriculum in light of the formation of the College of Engineering at UGA. The revisions included updated areas of emphasis. Existing areas of emphasis were left in the curriculum for the benefit of students in the program. A revised area of emphasis, Natural Resources Engineering, provides new courses and eliminates courses no longer taught or practically available due to prerequisite changes. The School now proposes to streamline the curriculum by removing the area of emphasis in Natural Resources Management and directing students towards Natural Resources Engineering.

**2. What will be done to ensure that termination of the area of emphasis does not weaken the major(s) under which it is offered?**

The revised area of emphasis, Natural Resources Engineering, strengthens the major by adding new courses that strengthen engineering offerings and structure that will help advisors and students in course scheduling. The new area better prepares students for precision farming-related engineering problems (e.g., soil and water conservation problems) to be solved in the future.

**3. How will faculty and staff be notified of the termination? Will termination of the area of emphasis have any impact on the faculty and staff offering the area of emphasis?**

The Agricultural Engineering faculty voted to accept the termination. The College of Engineering curriculum committee has voted to proceed with the changes. There will be no impacts to the Agricultural Engineering faculty as their current teaching loads will not be affected.

**4. How will students be notified of the termination? How will students currently in the area of emphasis be advised to complete the requirements?**

Students currently enrolled in the Natural Resources Management area of emphasis will be allowed to graduate under this area of emphasis. Incoming students to the program will be informed of the termination and availability of a revised area of emphasis at advising sessions.

**5. What plans, if any, are there for subsequent reactivation of the area of emphasis?**

None.

## PROPOSAL FOR TERMINATION OF AN AREA OF EMPHASIS

**Date:** February 23, 2023

**School/College:** College of Engineering

**Department/Division:** School of Environmental, Civil, Agricultural, and Mechanical Engineering

**Area of emphasis to be terminated:** Process Operations

**Major(s) and degree(s) the area of emphasis is offered under?** Agricultural Engineering (B.S.A.E.)

**Which campus(es) offer this area of emphasis?** Athens

**Proposed effective date:** Fall 2023

**Last date students will be admitted to this area of emphasis:** Spring 2023

**Last date students will complete this area of emphasis:** Spring 2024

**Provide a brief summary of the area of emphasis being proposed for termination.**

This area was designed for students interested in providing general technical services to post-farmgate process areas.

**1. Why is this area of emphasis being proposed for termination?**

A national committee was convened in 2018 to revise the Agricultural Engineering (B.S.A.E.) curriculum in light of the formation of the College of Engineering at UGA. The revisions included updated areas of emphasis. Existing areas of emphasis were left in the curriculum for the benefit of students in the program. A revised area of emphasis, Food Engineering, provides new courses and eliminates courses no longer taught or practically available due to prerequisite changes. The School now proposes to streamline the curriculum by removing the Process Operations area of emphasis and directing students towards Food Engineering.

**2. What will be done to ensure that termination of the area of emphasis does not weaken the major(s) under which it is offered?**

The revised area of emphasis strengthens the major by adding new engineering offerings and structure that will help advisors and students in course scheduling. Food Engineering courses are now included along with new electives. The new area of emphasis better prepares students for food and fiber-related engineering problems to be solved in the future.

**3. How will faculty and staff be notified of the termination? Will termination of the area of emphasis have any impact on the faculty and staff offering the area of emphasis?**

The Agricultural Engineering faculty voted to accept the termination. The College of Engineering curriculum committee has voted to proceed with the changes. There will be no impacts to the Agricultural Engineering faculty as their teaching loads will not be affected. Food Engineering faculty have expressed interest in working with Agricultural Engineering students.

**4. How will students be notified of the termination? How will students currently in the area of emphasis be advised to complete the requirements?**

Students enrolled in the Process Operations area of emphasis will be allowed to graduate under this area. Incoming students will be informed of the termination and availability of a revised area of emphasis at advising sessions.

**5. What plans, if any, are there for subsequent reactivation of the area of emphasis?**

None.

**College of Engineering Curriculum Committee**  
**Meeting Minutes**  
**February 16, 2023 – 1:00 p.m.- 2:30 p.m. via Zoom**

**Attendees present:**

*Voting Members:*

Dr. Tom Lawrence, ECAM  
Dr. Mark Trudgen, ECE  
Mr. John Brocato, CMB (Chair)

*Ex-officio members:*

Dr. James Warnock, School Chair, CMB  
Dr. Fred Beyette, School Chair, ECE  
Dr. Ramaraja Ramasamy, Associate Dean  
Ms. Margaret Sapp, Graduate Program Administrator  
Ms. Dagmar Nelson, ECAM Academic Advisor  
Mr. Luke Taylor, Academic Manager and CAPA Coordinator

*Not present:*

Dr. Bjorn Birgisson, School Chair, ECAM (ex-officio)

The meeting was called to order at 1:02 p.m. The Chair covered the items handled since the last meeting and asked if the ENGR 1920/1120 issue had already been resolved; it was determined that the CMB Curriculum Committee needs to discuss this issue before it is considered settled, which they will do at their next meeting on Friday, February 17.

Tom Lawrence then brought the following ECAM items before the committee:

- *Proposed modifications to the Agricultural Engineering curriculum* – these modifications including the removal of Natural Resources Management, Electrical and Electronic Systems, and Process Operations areas of emphasis were approved after a brief discussion on changes made.
- *Proposed modification to the UGA Mechanical Engineering program of study (MCHE)* that is proposed for implementation starting fall semester 2023 – the main issue for discussion with these modifications was the listing of BCHE 3520 as an elective and the potential for problems with available seats among CMB students, particularly since BCHE 3520 is a necessary prerequisite for BIOE 4720/6720. After input from Tom Lawrence, James Warnock, and Dagmar Nelson, it was agreed to remove both BCHE 3520 and BIOE 4720 from the MCHE electives list. BIOE 4760/6760 Biomechanics will remain in the list as it does not pose similar issues. These modifications were then approved.
- *Course proposal: MCHE 4440 Design and Control of Production Systems* – after the addition of third-year standing as a prerequisite, this course was approved.
- BSENVE Electives FA23 – Three electives were added to this list: ENVE 4450, ENGR 3620, ENVE 4730. These changes were approved.
- ECE and CMB had no items of their own for discussion.

Luke Taylor reported on the status of CAPA course additions and changes in progress. CVLE/MCHE 4660/6660 Sustainable Building Design is the only course not shown as approved; however, Luke stated that it may indeed already be approved but is not yet showing up in CAPA.

The Chair adjourned the meeting at 1:45 p.m.

## Documentation of Approval and Notification

**Proposal:** Termination of the Area of Emphasis in Electrical and Electronic Systems, the Area of Emphasis in Natural Resources Management, and the Area of Emphasis in Process Operations under the major in Agricultural Engineering (B.S.A.E.)

**College:** College of Engineering

**Department:** School of Environmental, Civil, Agricultural, and Mechanical Engineering

**Proposed Effective Term:** Fall 2023

### Approvals:

- Environmental, Civil, Agricultural, and Mechanical Engineering School Chair, Dr. Bjorn Birgisson, 2/23/23
- College of Engineering Associate Dean, Dr. Ramaraja Ramasamy, 2/23/23