MEMORANDUM

TO: Craig Beyrouty
Dean, College of Agriculture and Natural Resources

FROM: Elizabeth Beise
Associate Provost for Academic Planning and Programs

SUBJECT: Proposal to Establish a Minor in Agricultural Science and Technology (PCC Log No. 18083)

At its meeting on September 6, 2019, the Senate Committee on Programs, Curricula and Courses approved the proposal to establish a minor in Agricultural Science and Technology. A copy of the approved proposal is attached.

The minor is effective Spring 2020. Please ensure that the minor is fully described in all relevant descriptive materials.

MDC/
Enclosure

cc: Janna Bianchini, Chair, Senate PCC Committee
Barbara Gill, Office of Enrollment Management
Reka Montfort, University Senate
Huifang Pan, Division of Information Technology
Pam Phillips, Institutional Research, Planning & Assessment
Kendall Aughenbaugh, University Archives
Linda Yokoi, Office of the Registrar
Doug Roberts, Office of Undergraduate Studies
Joe Sullivan, College of Agriculture and Natural Resources
Angus Murphy, Department of Plant Science & Landscape Architecture
THE UNIVERSITY OF MARYLAND, COLLEGE PARK
PROGRAM/CURRICULUM/UNIT PROPOSAL

- Please email the rest of the proposal as an MSWord attachment to pcc-submissions@umd.edu.

- Please submit the signed form to the Office of the Associate Provost for Academic Planning and Programs, 1119 Main Administration Building, Campus.

College/School: College of Agriculture and Natural Resources
Please also add College/School Unit Code-First 8 digits: 1250101
Unit Codes can be found at: https://hyperion.umd.edu/reports/units.htm

Department/Program: Department of Plant Science and Landscape Architecture
Please also add Department/Program Unit Code-Last 7 digits: 1252701

Type of Action (choose one):
- Curriculum change (including informal specializations)
- Curriculum change for an LEP Program
- Renaming of program or formal Area of Concentration
- Addition/deletion of formal Area of Concentration
- Suspend/delete program

*Italics indicate that the proposed program action must be presented to the full University Senate for consideration.

Summary of Proposed Action:

**Action:** The Department of Plant Science and Landscape Architecture would like to offer a minor under the Agricultural Science and Technology major.

Departmental/Unit Contact Person for Proposal: **Bill Phillips**, 3-25-2019

APPROVAL SIGNATURES - Please print name, sign, and date. Use additional lines for multi-unit programs:

1. Department Committee Chair
   - [Signature]
   - 3-25-2019

2. Department Chair
   - [Signature]
   - 3-25-2019

3. College/School PCC Chair
   - [Signature]
   - 4/14/19

4. Dean
   - [Signature]
   - 4/14/19

5. Dean of the Graduate School (if required)

6. Chair, Senate PCC
   - [Signature]
   - 1-6-19

7. University Senate Chair (if required)

8. Senior Vice President and Provost
   - [Signature]
   - 10/22/19

Unit Code: 012025001252701
AGNR-Plant Science & Landscape Architecture
Proposal for an Undergraduate Minor in Agricultural Science and Technology in the Department of Plant Science and Landscape Architecture, College of Agriculture and Natural Resources, University of Maryland

1. Rationale for the Establishment of a Minor
The current major under which this minor is being developed is the Bachelor of Science degree in Agricultural Science and Technology (AGST) which is divided into two specializations, Agronomy and Environmental Horticulture. This major and its specializations have at their core a foundation in basic plant science and a focus on the sustainable production of food crops.

An AGST minor will provide students with interests in sustainability while appreciating and understanding the basic plant sciences as well as applied sustainable agricultural crop production. The courses have been selected to allow students to obtain an integrated foundation in plant science while being able to select from courses that will broaden their focus in different areas of sustainable agriculture. Students can select their courses and focus their education in either agronomy or environmental horticulture.

The courses in the minor will be attractive to those students currently pursuing degrees in fields that are associated with the sustainability of earth systems and human existence and ultimately the sustainable production of the world’s food supply. Currently, students in majors that focus on general biology, computer science, environmental engineering, environmental science and several other areas of study have expressed interest in pursuing a minor in AGST. This AGST minor will provide students with interests in sustainability with an appreciation and understanding of the safe and sustainable production of the food that the world’s population relies upon.

2. Request for Exception of the Nine Credit Upper Level Requirement

3. Faculty Overseeing the Minor
Angus Murphy, PhD, Chairman, Plant Science and Landscape Architecture
William Phillips, PhD, Advisor, Agricultural Science and Technology: Agronomy

4. Procedures to Declare and Be Admitted Into the Minor
Students must notify the college offering their major and the Department of Plant Sciences and Landscape Architecture no later than one full academic year before their expected date of graduation.
Agricultural Science and Technology Minor

4291 Fieldhouse Road
2102 Plant Sciences Building
College Park, MD 20742
Phone: 301-405-4359
https://www.psla.umd.edu

This minor will provide students with an appreciation and understanding of sustainable agricultural crop production. The core courses provide students with a basic foundation in plant science while supporting courses allow students to broaden their focus in different areas of agriculture. Students can select their courses in either agronomy or environmental horticulture.

Course Requirements

1. Core Courses
   - Introductory Crop Science (PLSC101) or Introduction to Horticulture (PLSC100) ............... 4
   - Fundamentals of Soil Science (ENST200) ......................................................... 4
   - Plant Structure and Function (PLSC201) ......................................................... 4
   - Internship (PLSC389) or Application of Knowledge in Plant Sciences (PLSC460) ............ 3

2. Supporting Courses (Courses equaling a minimum of 7 credits)
   - Advanced Crop Science (PLSC407) ................................................................. 3
   - Principles of Plant Pathology (PLSC420) ......................................................... 4
   - Technology of Fruit and Vegetable Production (PLSC433) .................................... 4
   - Environmental Horticulture (PLSC452) ............................................................. 3
   - Weed Science (PLSC453) .................................................................................. 3
   - Insects of Ornamentals and Turf (BSCI497) or Biology of Insects (BSCI337) .............. 4

Total Credits: A minimum of 22 credits must be completed for this minor.

General Requirements

- All courses presented for the minor must be passed with a grade of "C-" or better.
- All courses presented for the minor must be taken at the University of Maryland, College Park.
- Students may use a maximum of six credits or two courses to satisfy the requirements of both a major and a minor.
- The Department of Plant Science and Landscape Architecture has mandatory advising for each of its major and minor programs. Students are required to meet with their advisor at least twice a year.
- Students matriculating to this minor will need MATH113 or higher and CHEM131/132 as prerequisites.
Permission request for two BSCI courses

Dr. Fagan,
I am the director of the Agricultural Science and Technology major in the Department of Plant Sciences and Landscape Architecture and am requesting permission to include BSCI337 and BSCI497 as a part of the curriculum for our proposed minor. Students would be able to select from one of these two courses to fulfill the entomology requirements of the minor.

It is expected that initially we would have one or two students every two years taking one of these courses.

If you have any questions or would like to discuss this further please feel free to contact me.

Thank you
Bill

Bill Phillips, Ph.D.
Assistant Clinical Professor of Agronomy
Director Agricultural Science and Technology
Dept. Plant Science and Landscape Architecture
2131 Plant Sciences Building #36
University of Maryland
4291 Fieldhouse Drive
College Park, MD 20742-4452
Phone: 301-405-1944
https://www.pala.umd.edu
facebook @UMD4AG

Bill Fagan  bfagan@umd.edu
11/10/16

To: Leslie  lfpick@umd.edu

Dear Dr. Phillips
Both of these courses are run out of the Department of Entomology, so I am here forwarding your message to Dr. Leslie Pick who is chair of that department and can respond to your request.

thanks

Leslie Pick  lfpick@umd.edu
11/10/16

Dear Bill,
We are very happy to have your students in our classes. BSCI 337 is offered every year but we haven't offered 497 in a while, as far as I can tell. If you'd like to discuss more please let me know - I'm right upstairs from you.

Leslie

Bill Phillips  bill@umd.edu
11/10/16

Leslie
Thank you very much. We would not feel comfortable having our students complete a minor in AGST without a good foundation in entomology.

Thanks again!
Bill
Hi Bill,

I understand that the ENST200 class will now be offered in the spring and fall. I wanted to see if now would be a good time to talk about the AGST minor that I have been holding pending your review of the course. Again, we are only looking at about two students every other year over the next couple of years. If you are willing to allow us to include ENST200 in our minor, I will move forward, however, if you are still in the review process I will hold on until I receive word from you.

Thanks again for your consideration.
Bill Phillips

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On Fri, Nov 11, 2016 at 3:36 PM, William W Bowerman <wbowerma@umd.edu> wrote:

William W Bowerman <wbowerma@umd.edu>
To: William H Phillips <billii@umd.edu>

Hi Bill
Not a problem for that few students. We are starting to teach it both semesters starting this next year. Bill

Sent from my iPhone

William H Phillips <billii@umd.edu>
To: William W Bowerman <wbowerma@umd.edu>

Thank you!
Bill Phillips, Ph.D.

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