June 14, 2006

MEMORANDUM

TO: Cheng-i Wei
    Dean, College of Agriculture and Natural Resources

FROM: Phyllis Peres
    Associate Provost for Academic Planning and Programs

SUBJECT: Proposal to modify the curriculum of the B.S. in General Agriculture (PCC Log No. 05014) and to rename it as the B.S. in Agricultural Science and Technology (PCC Log No. 05049)

In fall 2005, the College of Agriculture and Natural Resources submitted a proposal to modify the curriculum and change the name of the B.S. in General Agriculture. As the proposal contained two program actions, it was divided into a proposal to modify the curriculum of the B.S. in General Agriculture (PCC Log No. 05014) and a proposal to rename it as the B.S. in Agricultural Science and Technology (PCC Log No. 05049).

As you know, on November 17, 2005, the Senate Committee on Programs, Curricula and Courses approved the proposal to modify the curriculum pending requested revisions.

President Mote approved the proposal to rename the B.S. in General Agriculture as the B.S. in Agricultural Sciences and Technology on April 27, 2006. On May 17, the Maryland Higher Education Commission acknowledged the change as well, and Chancellor Kirwan gave final approval on May 30. Please note that the program will continue to use HEGIS Code 0101-00 and CIP Code 01.0000.
The changes are effective in Fall 2006. All advisors should be notified and the College should ensure that the approved guidelines are followed. Copies of both proposals are enclosed.

CWR/

Enclosure

cc: James Baeder, Chair, Senate PCC
    Sarah Bauder, Office of Student Financial Aid
    Mary Giles, University Senate
    Barbara Hope, Data Administration
    Kathy McAdams, Undergraduate Studies
    Anne Turkos, Archives
    Linda Yokoi, Records & Registrations
    Christopher Walsh, Agriculture & Natural Resources
    John Doerr, College of Agriculture and Natural Resources
    Leon Slaughter, College of Agriculture and Natural Resources
### Program/Curriculum Proposal

**DIRECTIONS:** Provide one form with original approval signatures in lines 1 - 4 for each proposed action. Keep this form to one-page in length. Forms and appropriate attachments should be submitted to the Office of Academic Affairs, who will assign a Log Number to each proposal. Additional copies may be required at a later time.

<table>
<thead>
<tr>
<th>DATE SUBMITTED</th>
<th>10/7/04</th>
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**COLLEGE/SCHOOL:** AGNR

**DEPARTMENT/PROGRAM:** NRSN

**PROPOSED ACTION** *(A separate form for each)*

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<th>ACTION</th>
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**DESCRIPTION** *(Provide a succinct account of the proposed action. Additional detail may be provided in an attachment. Provide old and new sample programs for curriculum changes.)*

**JUSTIFICATION/REASONS/RESOURCES** *(Explain the reason for the proposed action. Identify the source of new resources that may be required. Attach additional material if needed.)*

See Attachments

**APPROVAL SIGNATURES**

1. Department Committee Chair
   - **Signature:**
   - **Date:** 5/20/05

2. Department Chair
   - **Signature:**
   - **Date:** 5/20/05

3. College/School PCC Chair
   - **Signature:**
   - **Date:** 5/27/05

4. Dean
   - **Signature:**
   - **Date:** 6/28/05

5. Dean of the Graduate School (if required)
   - **Signature:**
   - **Date:**

6. Chair, Senate PCC
   - **Signature:**
   - **Date:** 11/17/05

7. Chair of Senate
   - **Signature:**
   - **Date:**

8. Vice President for Academic Affairs & Provost
   - **Signature:**
   - **Date:** 1/31/05

**PCC LOG NO.**

<table>
<thead>
<tr>
<th>LOG NO.</th>
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<tr>
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**MODIFY CURRICULUM IN B.S. IN GENERAL AGRICULTURE**

**NAME CHANGE UNDER SEPARATE COVER**

**See Attachments**

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**VPAAP Rev. 2/2/98**
2005
Proposal for
General Agricultural Sciences
Undergraduate Curriculum
Modifications and Revisions

Natural Resource Sciences and
Landscape Architecture Dept.
University of Maryland
College Park

Submitted
May 2005


C. Walsh, NRSL Undergraduate Coordinator

R. Weismiller, NRSL Department Chair
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5. Old General Agricultural Sciences audit sheet

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7. Proposed minor in Agricultural Sciences and Technology

8. Impact of curriculum changes on current students

9. Impact of curriculum change on UMCP faculty and staff

10. Appendix A: Letters of approval for new course additions
1. Overview of the General Agricultural Sciences Program

The General Agricultural Sciences (Gen Ag) program is designed as a science based curriculum that allows students to obtain technological skills in a broad area of agricultural studies. Gen Ag students are required to take courses in Agricultural Economics, Animal Sciences, Biological Resource Engineering, Biology, Crop Science, Pest Management, and Soil Science. The high number of restricted and non-restricted electives in this curriculum allows students the flexibility an academic program compatible with their interests. Gen Ag students are strongly advised to choose two areas two areas of concentration to gain expertise in.

Currently, the General Agricultural Science curriculum is out of date. It has not been updated for many years. It requires courses that are no longer in existence or have changed significantly in the material covered. The course numbers and acronyms have also changed on most of the courses that are required.

2. Suggested changes for curriculum and rationale for the changes

*Description:*

A. Change name from General Agricultural Sciences to *Agricultural Sciences and Technology*

B. Change Math requirement from MATH 110 or higher to MATH 113

C. Change all course designations to the appropriate acronym. All AGRO courses will be designated as PLSC or NRSC, all BIOL courses will be designated as BSCI, PBIO 365 will be changed to PLSC 420.

D. The following courses will be dropped as a major requirement:
   - ANSC 314 (old 215) Comparative Animal Nutrition
   - ENBE 100 Basic Agricultural Engineering
   - CHEM 113 and CHEM 233 Organic Chemistry I
   - SOCY 305 Scarcity and Modern Society
   - ANSC 412 Introduction to Diseases of Animals

E. The following courses will be added as a major requirement
   - ANSC 220 Livestock Management
   - NRSC 389 Internship
   - PLSC 453 Weed Science
   - NRSC 398 Senior Seminar
   - ANSC 340 Health Management of Animal Populations

F. The following changes will be made to the Restricted Electives and Electives
   - The entomology (ENTM), ANSC or AGRO, and the HORT or LARC restricted elective was removed.
- Restricted electives added included: courses in the curriculum of BSCI (entomology), NRSC, ANSC, PLSC, and a choice of either PLSC or ANSC or LARC.
- The 6-credit restricted electives in the areas defined in the current curriculum as ‘Community Development Related, Non-Agricultural Life Science, Biometrics, Computer or Accounting’ will be changed to a 3-credit restricted elective in ‘Accounting, Education, Computer, or Policy’
- The requirement that at least 18 of these credits must be 300 level courses or above will be changed to at least 15 of these credits must be 300 level or above.
- The requirement that 12 credits must be agriculturally related will be removed.

Rationale:

A. Changing the name will make this major sound more appealing and be more descriptive of the curriculum. The word, ‘General’ gives the impression that this major lacks depth.

B. MATH 113 is now the standard for the College and is what I have been requiring of these majors since I took over as advisor.

C. Many of the acronyms for classes have been changed since this curriculum was last updated.

D. Dropped Courses
- Dropping ANSC 314: After discussions with the Animal & Avian Sciences Department it was clear that this course was focused on digestive biochemistry and not applied nutrition. I suggest replacing this course with ANSC 220 Livestock Management. Those students desiring a strong Animal science background will be encouraged to take ANSC 314 as their ANSC restricted requirement.
- ENBE 100 is no longer offered.
- Dropping CHEM 113 and CHEM 233 as a replacement for the CHE 104 requirement is necessitated by the changes that are taking place in the Chemistry curriculum. If graduate school is still in the student’s future then the CHEM 231/232 sequence will be strongly recommended as an elective.
- Dropping SOCY 305: After discussions with students who have taken this course it is clear that the direction of this course has gone away from agricultural issues.
- ANSC 412 is no longer offered.

E. Added Courses to Requirements
- ANSC 220 will replace ANSC 314 as a required course. This is an applied animal science course that will be valuable to all the students in this major.
The instructor has indicated that there is room for our students in this class. Most of majors have taken this class as a restricted elective.

- NRSC 389: Students in an applied oriented curriculum should get real world experience through an internship. Almost all of the students that I have advised in this major have interned and used the credits as a restricted elective.

- PLSC 453: By adding Weed Science to this curriculum it completes the study of the 3 major pests (Diseases and Entomology are already required). This is an applied-oriented course that would be valuable for students concentrating in all of the disciplines of this major.

- NRSC 398: This is a 1-credit course that students in the NRSL Department are required to take. It is designed for students in their senior year. This course addresses communication skills and job networking. The students present a final senior project in this class.

- PLSC 201 will be added as an alternative to BSCI 106. Those students wishing to concentrate their academic efforts in the plant science areas should take this course to prepare for other PLSC courses.

- ANSC 340 is a new course to replace ANSC 412.

F. Restricted Electives and Electives

- Most of the restricted electives will be more clearly defined as BSCI, NRSC, AREC, ANSC, and PLSC courses. This will require the majors to obtain a range of agricultural knowledge. The multiple-choice elective and the electives will allow a student to get more depth in desired subject areas.

- The Accounting, Education, Computer, or Policy restricted elective is designed for students to take courses that will provide non-agricultural work skills. This restricted elective area was reduced from 6 credits to 3 credits, because of the addition of an Internship as a required course in this curriculum.

- The number of 300-level or above elective credits were reduced from 18 to 15, because NRSC 389 will be a required course and most students have used this class as a 300-level elective.
List of Required Course Changes

Acronym Changes:
- All AGRO or HORT courses are now PLSC or NRSC
- All ENTM and BIOL courses are now BSCI

Course Number Changes:
- ANSC 412 = ANSC 340
- PBIO 365 = PLSC 420

Course Changes:

Deleted Courses:  Reason:
ENBE 100 Basic Agr. Eng. Technol.  No longer offered
ANSC 215 Comp. Animal Nutrition  Changed course
SOCY 305 Scarcity and Modern Society  Changed course
CHEM 113 & CHEM 233  Changed curriculum
ANSC 412  Changed course

Added Courses:  Reason:
ANSC 220 Livestock Management  Replaces ANSC 215. More pertinent to major
NRSC 389 Internship  Replaces 3 credits of restricted electives in Community Development, Biometrics, Computer, Acct.
PLSC 453 Weed Science  Completes study of pest management
NRSC 398 Senior Seminar  Addresses Communication skills in the area of study
ANSC 340 Health Management of Animal Populations  Replaces ANSC 412

Additional Course Options:  Reason:
PLSC 201 Plant Structure and Function  This is an additional option to take instead of BSCI 106. This is the suggested course for PLSC and NRSC majors.
### Required Courses and Sample Curriculum Outline

<table>
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<th>Courses and Credits</th>
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<tbody>
<tr>
<td><strong>Freshman Year – Fall Semester</strong></td>
<td>CHEM 131/132* Fundamentals of General Chemistry 4</td>
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<tr>
<td><strong>Sophomore Year – Fall Semester</strong></td>
<td>BSCI 106 Principles of Biology 4</td>
</tr>
<tr>
<td><strong>Junior Year – Fall Semester</strong></td>
<td>PLSC 453 Weed Science 3</td>
</tr>
<tr>
<td><strong>Senior Year – Fall Semester</strong></td>
<td>NRSC 389 Internship 3</td>
</tr>
<tr>
<td><strong>Freshman Year – Spring Semester</strong></td>
<td>CHEM 104 Fund. Org. Chemistry 4</td>
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<tr>
<td><strong>Sophomore Year – Spring Semester</strong></td>
<td>AREC 250 Elem of Agri &amp; Res Econ 3</td>
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<tr>
<td><strong>Junior Year – Spring Semester</strong></td>
<td>Elective** 3</td>
</tr>
<tr>
<td><strong>Senior Year – Spring Semester</strong></td>
<td>NRSC 398 Senior Seminar 1</td>
</tr>
</tbody>
</table>

*CORE Distributive Studies courses in Mathematics and Sciences are fulfilled by courses required by the major.

**There must be at least 15 credits of 300-level or above courses taken as restricted or non-restricted electives.
4. **Agricultural Sciences and Technology Audit (Proposed)**

Name: __________________________ SSN: __________________________

E-mail Address: __________________________ Phone: __________________________

**CORE REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Date</th>
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<th>Credits</th>
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<td>ENGL 393</td>
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<td>MATH 113</td>
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$\text{HA}=\text{Humanities and Arts}$  
$\text{SH}=\text{Humanities}$  
$\text{HO}=\text{Humanities}$  
$\text{DIVE}=\text{Diversity}$  
$\text{AS}=\text{Advanced Studies}$

Science Cores are fulfilled within the major.

$\text{HL}=\text{Humanities and Arts}$  
$\text{HA}=\text{History/Theory Arts}$  
$\text{HL}=\text{Humanities}$  
$\text{DIVE}=\text{Diversity}$  
$\text{AS}=\text{Advanced Studies}$

**MAJOR REQUIREMENTS**

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<td>CHEM 131/2</td>
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<td>CHEM 104</td>
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or

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<td>CHEM 231/232</td>
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<tr>
<td>BSCI 105</td>
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<td>BSCI 106</td>
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or

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<tbody>
<tr>
<td>PLSC 201</td>
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**ELECTIVES* (32-33 credits)**

**Restricted Electives**

BSCI  
(Entomology) | | |
NRSC | | |
AREC | | |
ANSC | | |
PLSC | | |
PLSC or ANSC  
or LARC | | |

Accounting, Education courses, Computer or Policy: 3 credits minimum |

Electives

| | | |
| | | |
| | | |
| | | |

*15 of these credits must be 300 level or above.

**TOTAL CREDITS (120)**

**COURSE TITLES**

- PLSC 101= Introductory Crop Science
- NRSC 200= Fundamentals of Soil Science
- ANSC 101= Principles of Animal Science
- ANSC 220= Livestock Management
- AREC 250= Elements of Agric. Economics
- NRSC 398= Senior Seminar
- ENBE 200= Intro. to Agric. Mechanics
- PLSC 420= Principles of Plant Pathology
- PLSC 453= Weed Science
- BSCI 227= Principles of Entomology
- NRSC 389= Internship
- PLSC 201= Plant Structure and Function
5. General Agricultural Sciences Audit-Current

Name: ______________________ SSN: __________________ Matric. Date
Local Address: ______________________ Phone: ____________ Advisor:

**CORE REQUIREMENTS**

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Science Cores are fulfilled within the major.

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HL=Humanities and Arts
HA=History/Theory Arts
HO=Humanities
L/A/O=HL or HA or HO
DIVE=Diversity
AS=Advanced Studies

**MAJOR REQUIREMENTS**

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<td>BIOL 106</td>
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**ELECTIVES** (24-28 credits 12 must be Agriculturally related credits)

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*At least 18 of these credits must be 300 level or above.

**TOTAL CREDITS** (120)

**COURSE TITLES**

AGRO 101= Introductory Crop Science
AGRO 202= Fundamentals of Soil Science
ANSC 101= Principles of Animal Science
ANSC 215= Comparative Animal Nutrition
AREC 250= Elements of Agric. Economics
ENBE 100= Basic Agric. Eng. Technol.
ENBE 200= Intro. to Agric. Mechanics
ANSC 412= Intro. to Diseases of Animals
PBIO 365= Principles of Plant Pathology
6. Prerequisite Structure of All Required or Optional Courses

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<th>Prerequisite</th>
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<td>ANSC 220</td>
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<td>AREC 250</td>
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<td>NRSC 398</td>
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<td>ENBE 200</td>
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<td>ANSC 340</td>
<td>BSCI 105, ANSC 212 or permission of instructor</td>
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<td>PLSC 420</td>
<td>CHEM 104, NRSC 201 (BSCI 105 can be substituted for NRSC 201)</td>
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<tr>
<td>PLSC 453</td>
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<td>NRSC 389</td>
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<td>CHEM 104</td>
<td>CHEM 103, 105, 131/132</td>
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<td>BSCI 106</td>
<td>Placement in MATH 110 or higher</td>
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<td>PLSC 201</td>
<td>PLSC 100 or 101, CHEM 103 or 131/132</td>
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<tr>
<td>ANSC 340</td>
<td>ANSC 212 or permission of instructor</td>
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**Optional Courses (Courses listed are possible suggestions)**

**BSCI (Entomology) Options**
- BSCI 120: None
- BSCI 337 (formally 227): None
- BSCI 497: BSCI 337 or permission (permission granted by professor)

**NRSC Options**
- Most require NRSC 200

**AREC Options**
- AREC 306: None
- AREC 365: None

**ANSC Options**
- Most require ANSC 101

**PLSC Options**
- Most Require PLSC 101 or 100

**Accounting/Education/Biometrics/Computer/Community Option**
- BMGT 220: 24 credit hours earned
- BIOM 301: None
- CMSC 102: None
- SOCY 305: 3 credits in sociology
7. Impact of changes on current General Agricultural Science students

    The current General Agricultural Science students were given opportunities for input into these changes and have been informed of all proposed changes. Many of the proposed changes were a direct result of input from majors in this area. Students have been informed that those currently enrolled in General Agricultural Science have the option to stay with their curriculum or change to the new curriculum. Since most of these proposed changes are the result of courses being changed in some manner, most General Agricultural Science students are already following this proposed curriculum. The impact would be minimal.

8. Impact of curriculum change on UMCP faculty and staff

    No new resources are required.

9. Appendix A: Letters of approval for new course additions

    See attached letters.
Appendix A

1. Email from Dr. Frank Coale, Professor and Acting Chair, NRSL Dept. Approving request to add NRSC 389, PLSC 453, and NRSC 398 as required courses for the Agricultural Sciences and Technology curriculum.

2. Email from Dr. Steve Cohan, Professor NRSL Dept. and teacher of NRSC 389. Approving request to add NRSC 389 as a required course for the Agricultural Sciences and Technology curriculum.

3. Letter from Dr. Scott Glenn, Assoc. Professor, NRSL Dept. and teacher of PLSC 453 and NRSC 398. Approving request to add PLSC 453 and NRSC 398 as required courses for the Agricultural Sciences and Technology curriculum.

4. Email from Dr. Ray Stricklin, Professor and Director of Undergraduate Studies, Animal and Avian Sciences Dept. Approving request to add ANSC 220 as a required course for the Agricultural Sciences and Technology curriculum.

5. Email from Dr. Richard Erdmann, Professor and Chair, Animal and Avian Sciences Dept. Approving request to add ANSC 220 as a required course for the Agricultural Sciences and Technology curriculum.

6. Email from Dr. Gerry Deitzer, Associate Professor, NRSL and teacher of PLSC 202. Approving request to add PLSC 202 as a required course for the Agricultural Sciences and Technology curriculum.

7. Email from Dr. Paula Shrewsbury, Asst. Professor, Entomology Dept. and teacher of BSCI 497. Approving request to add BSCI 497 as an option for an Entomology course for the Agricultural Sciences and Technology curriculum.

8. Email from Dr. Arv Grybauskas, Assoc. Professor, NRSL Dept. and teacher of PLSC 420. Approving request to replace the prerequisite of PLSC 202 (formally NRSC 201) with BSCI 105 and BSCI 106 so that Agricultural Sciences and Technology students can take PLSC 420.