NEW, REVISED, OR DELETED PROGRAM COVER SHEET
2007-2008
University Curriculum Committee
Undergraduate Programs (Majors, Minors, Sequences)

DEPARTMENT/SCHOOL AGRICULTURE DATE August, 2008

CONTACT (S) Rob Rhykerd EMAIL ADDRESS rrhyker@ilstu.edu

A. **Proposed Action:** (more than one item may be checked if a revision).

_____ New Major CIPS CODE _____ (obtain from Planning, Policy Studies and Info Systems)

_____ New Minor CIPS CODE _____ (obtain from Planning, Policy Studies and Info Systems)

__X__ New Sequence

_____ Change in requirements for major

_____ Change in requirements for minor

_____ Change in requirements for sequence

_____ Other program revisions

_____ More than 50% of courses in this program are distance education.

_____ Program deletion

B. **Summary of proposed action** (see Part A), including title and exact *Undergraduate Catalog* copy for a new or altered program. (See *Catalog* and Program Checklist for format and examples.) Provide a summary of the revisions in addition to the exact current *Catalog* copy.

Crop and Soil Science Sequence, B.S. in Agriculture
See attached for summary of proposed action and exact catalog copy.

C. **Routing and action summary:**

1. _____ Department/School Curriculum Committee Chair	_____ Date Approved	4. _____ College Dean	_____ Date Approved
2. _____ Department Chair/School Director	_____ Date Approved	5. _____ Teacher Education Council Chair if appropriate (10 copies to the Dean of the College of Education)	_____ Date Approved
3. _____ College Committee Chair	_____ Date Approved	6. _____ University Curriculum Committee Chair (8 copies to UCC Secretary, Moulton 102)	_____ Date Approved

Submit 8 copies of **NEW** Undergraduate proposals to University Curriculum Committee
Submit 8 copies of **REVISED** Undergraduate proposals to University Curriculum Committee
All new and deleted programs (majors, minors, sequences) are routed by the U.C.C. to the Academic Senate. **The Senate rules mandate electronic submission (in MS Word or HTML format) of all materials for Web site posting.**
3/05

Part A: Program Description and Explanation

Institution: Illinois State University

Responsible Department: Agriculture

Proposed Program Title: Crop and Soil Science Sequence within the Agriculture major

Previous Program Title: Agronomy Concentration within the Agricultural Science Sequence

CIPS Code: 01.0000

Date of Implementation: August 15, 2009

Description of the Proposed Change:

The currently existing Agriculture Science and Agriculture Industry Management Sequences are being deleted and replaced by the proposed Animal Science, Pre-Veterinary Medicine, Animal Industry Management, Crop and Soil Science, and Agronomy Management Sequences. Portions of the two deleted sequences will be contained within the five proposed sequences. Courses required within the proposed Crop and Soil Science Sequence were formerly housed in the Agricultural Science Sequence.

Catalog copy for the proposed Crop and Soil Science Sequence and current catalog copy for the Agricultural Science Sequence are as follows.

Proposed Catalog Copy

Crop and Soil Science Sequence:

— 37 hours in Agriculture required.
— Required Agriculture courses: AGR 109, 150, 157, 234, 272, 305, 357, and choose one from 110 or 170. (28 hours)
— 9 hours of Agronomy electives.
— Additional required courses: CHE 110 and 112, or 140 and 141; CHE 220, or 230 and 231; and CHE 242 or 342; MAT 120 or 144 or 145; BSC 196 or 197. (20-24 hours)

Current Catalog Copy

Agricultural Science Sequence:

— 36 hours in Agriculture (including at least 20 hours in either Animal Science or Agronomy) and 25 hours in Biological Sciences, Chemistry, Physics or Mathematics.
— Required Agriculture courses: AGR 109, 110, 130, 150, 170.
— At least 3 senior-level hours from the Agribusiness area (AGR 213, 214, 215, 216, 310, 311, 312, 313, 314, 315, 317, 318, 319, 320, 324).
— Additional required courses: AGR 272 or BSC 219; AGR 275 (required for Animal Science Concentration) or AGR 157 (required for Agronomy Concentration); AGR 363; MAT 120 or 144; CHE 110 and 112, or 140 and 141; CHE 220 or 230, and 231; CHE 242 or 342 or 280 (CHE 280 is recommended for the Agronomy Concentration);

BSC 196 or 197; BSC 211 (recommended for Agronomy Concentration) or 283 (recommended for Animal Science Concentration).

Concentrations: Students selecting the Agriculture Science Sequence will elect an Animal Science Concentration or an Agronomy Concentration. Students may choose courses from among the following lists for each concentration.

— **Agronomy:** AGR 157, 272, 305, 306, 355, 356, 357, 363.

Course revisions that are relevant to the proposed sequence in Crop and Soil Science are as follows:

- AGR 109 Introduction to the Agricultural Industry changed from 1 hour to 3 hours.

Rationale for the Proposed Change:

As a result of Program Review, recommendations were made for changes to the curricular offerings within the Department of Agriculture. The recommendations included:

1) combine two majors (Agribusiness and Agriculture) into one major (Agriculture).
2) change the sequence offerings to reflect current student/graduate needs.
3) offer fewer courses.
4) update courses offered where needed.

The Department of Agriculture obtained approval during the previous academic year, through the curricular approval process, to delete the Agribusiness major and to place all sequences within one major, the Agriculture major. After consultation with the Dean of the College of Applied Science and Technology, the Associate Provost, and the Assistant Vice President of Enrollment Management and Director of Academic Services, the Department of Agriculture is seeking approval to offer ten sequences (see table on next page), which is an increase of three sequences from the current curriculum. Documentation of this consultation is provided in a supporting memo from Associate Provost Murphy (memo attached). Because some key programmatic areas will be elevated from the concentration level to the sequence level, making them more visible, it is anticipated that the proposed changes will enhance recruitment of high quality students.

Current Sequences	Proposed Sequences
Agribusiness	Agribusiness
Food Industry Management	Food Industry Management
Horticulture (editorial name change)	Horticulture and Landscape Management
Agriculture Industry Management (to be deleted)	Agronomy Management Animal Industry Management
Agriculture Science (to be deleted)	Crop and Soil Science Animal Science Pre-Veterinary Medicine
Agriculture Education	Agriculture Education
	Agriculture Communication and Leadership
General Agriculture (to be deleted)	

The 10 proposed sequences share five common learning outcomes or core objectives that provide commonality to a single major. These common learning outcomes insure that students who successfully complete any one of the ten sequences will be able to:

1) list and describe factual knowledge related to Agriculture including terminology, classification, methods and trends;
2) list and describe fundamental principles, generalizations and theories that define Agriculture;
3) apply fundamental Agriculture principles, generalizations and theories to problem solving, critical thinking and decision making activities required by the specified Agriculture disciplines;
4) work with others in a team setting to solve problems and answer questions related to Agriculture; and
5) identify resources required to answer Agriculture related questions or to solve Agriculture related problems.

Because these five common learning outcomes transcend all ten sequences, and because each sequence is more specialized in disciplinary requirements than previously, only one core course (AGR 109 Introduction to the Agriculture Industry) is required in all 10 sequences. The course offerings within the Department of Agriculture include seven discipline specific introductory courses, of which four were previously required by all sequences. The proposed sequence offering allows each individual sequence to vary in the number of discipline specific introductory courses required.

The Crop and Soil Science Sequence is designed for students who expect to enter graduate school and for students interested in agribusiness careers with a research focus. These students should be prepared for careers in plant genetics, plant breeding, soil science or for entry into graduate school for eventual positions

in higher education or industry requiring Master's or Doctoral degrees. The proposed Crop and Soil Science Sequence replaces the Agronomy Concentration of the deleted Agriculture Science Sequence.

Expected Impact of Proposal on Existing Campus Programs:

No impact is expected. Required courses in Biology (196 or 197), Math (120, 144 or 145) and Chemistry (110 and 112, or 140 and 141, 220 or 230; and 242 or 342) are the same as those required under the current Agricultural Science Sequence.

Expected Curricular Changes Including New Courses:

New and revised courses: All changes are outlined in this proposal.

Expected Impact on Milner Library:

The proposed changes do not impact the resources currently offered in Milner Library.

Anticipated Staffing Requirements:

The proposed changes do not require an increase in faculty or staff.

Anticipated Funding Needs and Sources Funding:

The proposed changes do not affect funding requirements or sources of funding.

	Proposed		General Education
Required Courses, Agriculture	Min cr	Max cr	
AGR 109	3	3	
AGR150	4	4	
AGR157	4	4	
AGR234	3	3	
AGR272	3	3	
AGR 305	4	4	
AGR 357	4	4	
Select one from AGR 110 or AGR 170.	3	3	
Agronomy electives	8	8	
Total Agriculture hours required	**36**	**36**	
Other required courses			
CHE 110 & 112 or 140 &141	5	8	110, 112, 140 **IC-NSA**
CHE 220 or 230 and 231	4	5	
CHE 242 or 342	3	3	
MAT 120 or 144 or 145	4	4	120, 145 **IC-M**
BSC 196 or 197	4	4	**IC-NSA**
Total other hours required	**20**	**24**	
Total	**56**	**60**	

ILLINOIS STATE UNIVERSITY
UNDERGRADUATE PROGRAMS
REQUEST FOR NEW PROGRAM APPROVAL
(Report of financial Implications)

Purpose: Proposed new undergraduate programs (degrees, sequences, certificates) must include information concerning how the program will be financially supported to proceed through the curriculum proposal process. Signatures of the College Dean and Provost/Provost representative are required prior to submission of the new program to the College Curriculum Committee.

Procedure: This completed form, with all necessary signatures, is to be attached to new program curricular proposals.

Definition: A "program" can be either a degree, a sequence as part of a degree or a certificate.

Complete the following information:

Department: Agriculture Date: 9/22/2008

Proposed New Program: BS sequence: Crop and Soil Science

Person Completing Form: Rob Rhykerd Contact #: 438-8550

Complete Table I to show student enrollment projections for the program.

TABLE I
STUDENT ENROLLMENT PROJECTIONS FOR THE NEW PROGRAM

	1st year (July – June)	2nd year	3rd year	4th year	5th year
Number of Program Majors (Fall headcount)	12	12	14	14	16
Annual Full-Time Equivalent Majors	10	10	12	12	14
Annual Credit Hours in EXISTING Courses[1]	1,400	1,435	1,470	1,505	1,540
Annual Credit Hours in NEW Courses[1]	0	0	0	0	0
Annual Number of degrees Awarded	5	5	6	6	7

[1] Include credit hours generated by both majors and non-majors in courses offered by the academic unit directly responsible for the proposed program.

Complete Table II (even if no new funding is requested). Show all requested resources including amounts and sources of funds reallocated from other programs or units.

Table II
PROJECTED RESOURCE REQUIREMENTS FOR THE NEW PROGRAM

	1st year (July – June)	2nd year	3rd year	4th year	5th year
FTE Staff[1]	2	2	2	2	2
Personnel Services ($)	135,000	139,050	143,222	147,518	151,944
Equipment and Instructional Needs ($)	7,000	7,210	7,426	7,649	7,879
Library ($)	4,980	5,129	5,283	5,442	5,605
Other Support Services[2] ($)	0	0	0	0	0

[1] Reflects the number of FTE staff to be supported with requested funds. Not a dollar entry
[2] Other dollars directly assigned to the program. Do not include allocated support services.

Budget narrative listing sources of program funding (including sources of reallocated funds).

This proposed sequence is part of a larger curriculum revision that will involve establishing five sequences from two existing sequences. Essentially, the revision will move existing concentrations to the sequence level to improve marketing these programs. Thus, existing faculty and courses will be used to support this proposal. Courses taught in this proposed sequence are currently supported by two faculty member. Their current salaries are reported in the "Personnel Services" for year 1, and subsequent years show a 3% increase to account for raises. "Equipment and Instructional Needs" reflects the portion (10%) of the Departments operating budget ($70,000) allocated to support one of the ten proposed sequences, assuming an even distribution of resources between sequences and a 3% increase for subsequent years. Similarly, the "Library" resources reflect the portion (10%) of the library's budget for agriculture ($49,800) allocated to support this proposed sequence, assuming an even distribution of resources. Because students in this sequence are currently advised through the Agricultural Science sequence, there are no additional "support services" required.

Routing and action summary:

1. _____ _____
Department/School Curriculum Committee Chair — Date Approved

2. _____ _____
Department Chairperson/School Director — Date Approved

3. _____ _____
College Dean — Date Approved

4. _____ _____
Provost/Provost Representative — Date Approved

5. _____ _____
College Curriculum Chairperson — Date Approved

6. _____ _____
Teacher Education Council Chair — Date Approved

7. _____ _____
University Curriculum Committee Chairperson — Date Approved