

# Course Schedule - Fall 2008

## Crop Sciences

111 **Farming Systems** credit: 2 hours.

General introduction to the equipment and practices commonly used on Midwest farms. Classes will consist of short lectures followed by demonstrations. All classes and demonstrations will be conducted at the University of Illinois Crop Sciences Research and Education Center. Includes field trips to local production and agribusiness facilities.

Enrollment is restricted to Freshmen only.

CRN	Type	Section	Time	Days	Location	Instructor
30067	lecture-discussion	A	10:00 AM - 11:50 AM	R	room W115 Turner Hall	Dunker, R
30067: Enrollment is restricted to Crop Science Freshmen only						

112 **Introduction to Crop Sciences** credit: 4 hours.

Introductory course covering principles of growth, production, protection, and improvement of crop plants. Topics covered include form, function, and uses of crops; mechanisms and factors responsible for plant growth and development; crop pests and pest protection; specific crops; and advances in crop production. Concepts are discussed in lecture and reinforced in corresponding hands-on laboratory sections.

CRN	Type	Section	Time	Days	Location	Instructor
31643	laboratory	AB1	01:00 PM - 03:50 PM	W	room W13 Turner Hall	Stoller, P
31644	laboratory	AB2	01:00 PM - 03:50 PM	R	room W13 Turner Hall	Stoller, P
31645	lecture	AL1	10:00 AM - 10:50 AM	MWF	room W115 Turner Hall	Stoller, P

199 **Undergraduate Open Seminar** credit: 1 to 5 hours.

Experimental course on a special topic in crop sciences. Topic may not be repeated except in accordance with the Code. May be repeated to a maximum of 12 hours.

CRN	Type	Section	Time	Days	Location	Instructor
10554	independent study		ARRANGED			
10554: Instructor Approval Required						

226 **Introduction to Weed Science** credit: 3 hours.

Fundamentals of weed biology, ecology, and management. Emphasis is placed on basic principles and specific

management strategies that are relevant to both crop and non-crop ecosystems. Includes a laboratory/discussion. Same as HORT 226. Prerequisite: CPSC 112 or HORT 100 or IB 103.

CRN	Type	Section	Time	Days	Location	Instructor
33546	laboratory	AB1	12:00 PM - 02:50 PM	T	room W13 Turner Hall	Tranel, P
33548	laboratory	AB2	03:00 PM - 05:50 PM	T	room W13 Turner Hall	Tranel, P
33543	lecture	AL1	08:00 AM - 08:50 AM	TR	room W115 Turner Hall	Tranel, P

**265 Genetic Engineering Lab** credit: 3 hours.

Laboratory/discussion course that provides a hands-on introduction to the techniques and principles of genetic engineering, recombinant DNA and the impact of molecular genetics on society. Students will isolate DNA from plants and clone specific genes into bacterial plasmids, perform polymerase chain reactions, DNA restriction analysis and DNA blotting, and discuss the relevance of these techniques to both medicine and agriculture. Prerequisite: A general biology course.

Additional Class Materials Fee Required.

CRN	Type	Section	Time	Days	Location	Instructor
30074	laboratory	A	01:00 PM - 04:50 PM	R	room M5 Turner Hall	Hudson, M

**270 Applied Entomology** credit: 3 hours.

Lectures, laboratory, and field trips cover the biology of insects and the recognition and management of insect pests of agricultural, forest, and urban ecosystems. Covers insect structure and physiology, classification, life histories, behavior, and pest management. Same as IB 220 and NRES 270.

This course satisfies the General Education Criteria for a Life Sciences course.

CRN	Type	Section	Time	Days	Location	Instructor
33480	laboratory	AB1	10:00 AM - 11:50 AM	M	room W13 Turner Hall	Weinzierl, R
33480: Life Sciences course.						
33486	laboratory	AB2	10:00 AM - 11:50 AM	T	room W13 Turner Hall	Weinzierl, R
33486: Life Sciences course.						
45228	laboratory	AB3	02:00 PM - 03:50 PM	M	room W13 Turner Hall	Weinzierl, R
45228: Life Sciences course.						

33476	lecture	AL1	09:00 AM - 09:50 AM	MW	room 24 Wohlers Hall	Weinzierl, R
33476: Life Sciences course.						

293 **Off-Campus Crop Sci Internship** credit: 1 to 5 hours.  
 Supervised, off-campus experience in a field directly pertaining to a subject matter in crop sciences. May be repeated to a maximum of 10 hours. For registration in this course, students should contact the Department Teaching Coordinator. Prerequisite: Sophomore standing, cumulative GPA of 2.0 or above at the time the internship is arranged, and consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10555	independent study		ARRANGED			
10555: Instructor Approval Required						

294 **On-Campus Crop Sci Internship** credit: 1 to 5 hours.  
 Supervised, on-campus learning experience with faculty engaged in research. May be repeated to a maximum of 10 hours. For registration in this course, students should contact the Department Teaching Coordinator. Prerequisite: Sophomore standing, 2.0 GPA, consent of the advisor, and consent of the Department Teaching Coordinator.

CRN	Type	Section	Time	Days	Location	Instructor
10558	independent study		ARRANGED			
10558: Instructor Approval Required						

295 **Undergrad Research or Thesis** credit: 1 to 4 hours.  
 Individual research, special problems, thesis, development and/or design work under the supervision of an appropriate member of the faculty. May be repeated in the same or subsequent terms. No more than 12 hours of special problems, research, thesis and/or individual studies may be counted toward degree. Prerequisite: Junior standing, cumulative GPA of 2.5 or above at the time the activity is arranged, and consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10560	independent study		ARRANGED			
10560: Instructor Approval Required						

352 **Plant and Animal Genetics** credit: 4 hours.  
 The principles of heredity in relation to plant and animal improvement. Same as ANSC 340 and NRES 352.

Prerequisite: IB 103 or IB 104.

CRN	Type	Section	Time	Days	Location	Instructor
33510	laboratory	AB1	01:00 PM - 02:50 PM	T	room W115 Turner Hall	Diers, B; Beever, J
33514	laboratory	AB2	03:00 PM - 04:50 PM	T	room W115 Turner Hall	Diers, B; Beever, J
33518	laboratory	AB3	10:00 AM - 11:50 AM	T	room W115 Turner Hall	Diers, B; Beever, J
33507	lecture	AL1	02:00 PM - 02:50 PM	MWF	room W109 Turner Hall	Diers, B; Beever, J

396 **Undergrad Honors Res or Thesis** credit: 1 to 4 hours.

Individual research, special problems, thesis, development and/or design work under the direction of the Honors advisor. May be repeated in the same or subsequent terms. No more than 12 hours of special problems, research, thesis and/or individual studies may be counted toward degree. Prerequisite: Junior standing, admission to the ACES Honors Program, and consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10562	independent study		ARRANGED			
10562: Instructor Approval Required						

407 **Diseases of Field Crops** credit: 3 hours.

Same as PLPA 407. See PLPA 407.

CRN	Type	Section	Time	Days	Location	Instructor
43811	laboratory-discussion	A	10:00 AM - 11:50 AM	TR	room M5 Turner Hall	Pataky, J

426 **Weed Mgt in Agronomic Crops** credit: 3 hours.

Principles of weed ecology and biology, and their application to weed management. Herbicides and their use in corn, soybeans and other agronomic crops. Specialized topics include weed management in reduced tillage, herbicide tolerant crops and management of problem weeds. Prerequisite: CPSC 226 or consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
52512	online	BSX	06:30 PM - 09:30 PM	W		Czapar, G

52512: Academic Outreach restrictions and assessments apply, see <http://www.outreach.uiuc.edu>. A working microphone and speakers are required for this course as well as high speed internet connection. See details about the online system at [www.illuminate.com](http://www.illuminate.com). This section is for HORT BS students. OnlineMeets 27-Aug-08 - 10-Dec-08. AO Fees 2+4 41, and AO Tuition 2+4 305.00 dollars.

51267	online	GFC	ARRANGED			Czapar, G
52559	online	XM	06:30 PM - 09:30 PM	W		Czapar, G

52559: Academic Outreach restrictions and assessments apply, see <http://www.outreach.uiuc.edu>. A working microphone and speakers are required for this course as well as high speed internet connection. See details about the online system at [www.illuminate.com](http://www.illuminate.com). OnlineMeets 27-Aug-08 - 10-Dec-08. XM Tuition 298, XM Tuition 270, XM Fees 41, and XM Fees 41.00 dollars.

**432 Genetic Toxicology** credit: 3 hours.

Introduces the field of genetic toxicology; includes the study of physical and chemical induced mutagenesis, survey of genetic indicator organisms and genetic assays, distribution of environmental mutagens and their biochemistry, analysis of case histories of environmental mutagens and risk assessment. Same as ENVS 432. Offered in alternate years. Prerequisite: CPSC 352; CHEM 104; MCB 350, or MCB 452 and MCB 453, or consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
39532	lecture	A	10:00 AM - 11:20 AM	TR	National Soybean Res Ctr	Plewa, M
39532: 3 hours						

**433 Basic Toxicology** credit: 3 hours.

Same as ENVS 480, FSHN 480, and VB 549. See FSHN 480.

CRN	Type	Section	Time	Days	Location	Instructor
37667	lecture	C	01:30 PM - 02:20 PM	MWF	room 132 Bevier Hall	Jeffery, E

**440 Applied Statistical Methods I** credit: 4 hours.

Statistical methods involving relationships between populations and samples; collection, organization, and analysis of data; and techniques in testing hypotheses with an introduction to regression, correlation, and analysis of variance limited to the completely randomized design and the randomized complete-block design. Same as ABE 440, ANSC 440, FSHN 440, and NRES 440. Prerequisite: MATH 012 or equivalent.

CRN	Type	Section	Time	Days	Location	Instructor
33573	lecture	AL1	08:00 AM - 09:20 AM	TR	room 150 Animal Sciences Laboratory	Bollero, G

33572	laboratory-discussion	AY1	01:00 PM - 02:50 PM	T	room N120 Turner Hall	Bollero, G
34027	laboratory-discussion	AY2	05:00 PM - 06:50 PM	T	room N120 Turner Hall	Bollero, G
34045	laboratory-discussion	AY3	01:00 PM - 02:50 PM	W	room N120 Turner Hall	Bollero, G
34058	laboratory-discussion	AY4	03:00 PM - 04:50 PM	T	room N120 Turner Hall	Bollero, G
34080	laboratory-discussion	AY5	10:00 AM - 11:50 AM	T	room N120 Turner Hall	Bollero, G

448 **Biological Modeling** credit: 3 or 4 hours.  
Same as ANSC 449, GEOG 468, and IB 491. See GEOG 468.

CRN	Type	Section	Time	Days	Location	Instructor
37456	lecture-discussion	G1	10:00 AM - 12:20 PM	W	room 338 Davenport Hall	Hannon, B
37456: 4 hours						
37455	lecture-discussion	U1	10:00 AM - 12:20 PM	W	room 338 Davenport Hall	Hannon, B
37455: 3 hours						

462 **Plant Molecular Biology** credit: 1 hours.  
Same as IB 472. See IB 472.

CRN	Type	Section	Time	Days	Location	Instructor
51939	lecture	A	10:00 AM - 10:50 AM	TR	room 206 Transportation Bldg	Zielinski, R
51939: Meets 25-Aug-08 - 18-Oct-08.						

465 **Ethics in Biotechnology** credit: 3 hours.  
Same as ANSC 465 and HORT 465. See HORT 465.

CRN	Type	Section	Time	Days	Location	Instructor
34284	lecture-discussion	E1	11:00 AM - 12:20 PM	TR	room 1103 Plant Sciences	Korban, S

					Laboratory	
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467 **Plant Genomics** credit: 1 hours.  
Same as IB 473. See IB 473.

CRN	Type	Section	Time	Days	Location	Instructor
51933	lecture	A	10:00 AM - 10:50 AM	TR	room 206 Transportation Bldg	Ming, R
51933: Meets 20-Oct-08 - 10-Dec-08.						

468 **Plant Proteomics** credit: 1 hours.  
Same as IB 474. See IB 474.

CRN	Type	Section	Time	Days	Location	Instructor
51934	lecture	A	11:00 AM - 11:50 AM	TR	room N107 Turner Hall	Huber, S
51934: Meets 25-Aug-08 - 18-Oct-08.						

469 **Plant Metabolomics** credit: 1 hours.  
Same as IB 475. See IB 475.

CRN	Type	Section	Time	Days	Location	Instructor
51935	lecture	A	11:00 AM - 11:50 AM	TR	room N107 Turner Hall	Bohnert, H
51935: Meets 20-Oct-08 - 10-Dec-08.						

488 **Soil Fertility and Fertilizers** credit: 3 hours.  
Same as NRES 488. See NRES 488.

CRN	Type	Section	Time	Days	Location	Instructor
41081	lecture	L1	01:00 PM - 01:50 PM	MWF	room W115 Turner Hall	Mulvaney, R

498 **Undergrad Crop Sci Seminar** credit: 1 hours.

Course includes reports and oral presentations on special topics in a field of study directly pertaining to subject matter in crop sciences. Prerequisite: Senior standing.

CRN	Type	Section	Time	Days	Location	Instructor
49502	discussion-recitation	A	04:00 PM - 04:50 PM	R	room W115 Turner Hall	Kolb, F; Eastburn, D
49502: 1 hours						

499 **Seminar** credit: 0 to 4 hours.

Group discussion or an experimental course on a special topic in crop sciences. Approved for both letter and S/U grading. May be repeated to a maximum of 12 hours.

CRN	Type	Section	Time	Days	Location	Instructor
10564	independent study		ARRANGED			
10564: Instructor Approval Required						

541 **Regression Analysis** credit: 5 hours.

The application of regression methods to problems in agriculture and natural resources. Topics include simple linear, multiple linear, and nonlinear regression analysis and correlation analysis. Emphasis is placed on predictor variable selection, diagnostics and remedial measures and validation. Both quantitative and qualitative predictor variables are examined. The SAS system is used for all analyses. Same as ANSC 541. Prerequisite: CPSC 440 or equivalent.

CRN	Type	Section	Time	Days	Location	Instructor
46816	laboratory	AB1	03:00 PM - 04:50 PM	R	room N120 Turner Hall	Bullock, D
46817	laboratory	AB2	01:00 PM - 02:50 PM	R	room N120 Turner Hall	Bullock, D
46809	lecture	AL	03:00 PM - 04:50 PM	MW	room W115 Turner Hall	Bullock, D

590 **Professionalism and Ethics** credit: 2 hours.

Topics related to professional activities of agricultural and natural resource scientists, including scientific writing and publishing, grantsmanship and money management, oral presentation skills, finding and keeping a job, and mentoring and teaching are discussed. Ethical dimensions of these areas are explored through case studies. Same as NRES 590.

CRN	Type	Section	Time	Days	Location	Instructor
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33566	discussion-recitation	A	03:00 PM - 04:50 PM	T	room W121 Turner Hall	Wander, M; Eastburn, D; Stewart, J
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593 **Adv Studies in Crop Sciences** credit: 1 to 8 hours.

Directed studies of selected problems or topics relevant to Crop Sciences. Study may be in one of the following fields: 1) Plant Breeding and Genetics; 2) Plant Molecular Biology; 3) Plant Physiology; 4) Crop Production and Ecology; 5) Biometrics; 6) Plant Pathology; 7) Entomology; and 8) Weed Science. Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10567	independent study		ARRANGED			
10567: Instructor Approval Required						
48387	discussion-recitation	SJC	ARRANGED			Hartman, G; Clough, S
48387: Instructor Approval Required						
48387: 1 hoursAdv Disc. in Soybean Pathology						

598 **Seminar** credit: 1 hours.

Current research in crops, genetic engineering, plant protection and other topics relevant to Crop Sciences. May be repeated to a maximum of 14 hours if topics vary. Students enrolling in discussion sections receive S/U grading. Students enrolling in lecture-discussion sections receive letter grading. Prerequisite: Graduate standing.

CRN	Type	Section	Time	Days	Location	Instructor
37023	discussion-recitation	C1	12:00 PM - 12:50 PM	R	room W109 Turner Hall	Kolb, F; Eastburn, D
37021	lecture-discussion	C2	12:00 PM - 12:50 PM	R	room W109 Turner Hall	Kolb, F; Eastburn, D
33589	discussion-recitation	GE1	12:00 PM - 12:50 PM	W	room W109 Turner Hall	Tranel, P; Huber, S
33591	lecture-discussion	GE2	12:00 PM - 12:50 PM	W	room W109 Turner Hall	Tranel, P; Huber, S
33592	discussion-recitation	PP1	12:00 PM - 12:50 PM	R	room W109 Turner Hall	Kolb, F; Eastburn, D
33593	lecture-discussion	PP2	12:00 PM - 12:50 PM	R	room W109 Turner Hall	Kolb, F; Eastburn, D

599 **Thesis Research** credit: 0 to 16 hours.

Individual research under supervision of faculty. Required of all students working toward the Master of Sciences

(thesis option) or Doctor of Philosophy in Crop Sciences. Approved for S/U grading only. May be repeated to a maximum of 16 hours if topics vary.

<b>CRN</b>	<b>Type</b>	<b>Section</b>	<b>Time</b>	<b>Days</b>	<b>Location</b>	<b>Instructor</b>
10569	independent study		ARRANGED			
10569: Instructor Approval Required						