

Course Schedule - Spring 2006

Crop Sciences

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 |
|-------|------------|---------|---------------------|------|-----------------------|------------|
| 31481 | laboratory | AB1 | 01:00 PM - 03:50 PM | W | room W13 Turner Hall | Stoller, P |
| 31483 | laboratory | AB2 | 09:00 AM - 11:50 AM | R | room W13 Turner Hall | Stoller, P |
| 31487 | lecture | AL1 | 10:00 AM - 10:50 AM | MWF | room W109 Turner Hall | Stoller, P |

180 **Medicinal Plants and Herbology** Credit: 3 hours.

Same as HORT 180. See HORT 180.

| CRN | Type | Section | Time | Days | Location | Instructor |
|-------|---------|---------|---------------------|------|-----------------------|------------|
| 34188 | lecture | AL1 | 11:00 AM - 11:50 AM | MWF | room 223 Gregory Hall | Briskin, D |

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 | | | | | | |

241 **Intro to Applied Statistics** Credit: 3 hours.

Introduces fundamental statistics used to analyze and interpret data in the biological and physical sciences of agriculture, environmental sciences, and related areas. Includes descriptive and inferential statistics, measures of central tendency and dispersion, probability, correlation and regression, and tests of hypotheses. Enhances students' ability to critically assess statistical information encountered in professional and every day activities. Credit is not given for both CPSC 141 and STAT 100 or ACE 261.

This course satisfies the General Education Criteria for a Quant Reasoning I course.

| CRN | Type | Section | Time | Days | Location | Instructor |
|----------------------------------|------------|---------|---------------------|------|-----------------------|-----------------------|
| 31489 | laboratory | AB1 | 10:00 AM - 11:50 AM | T | room M5 Turner Hall | Bullock, D; Pataky, J |
| 31489: Quant Reasoning I course. | | | | | | |
| 31491 | laboratory | AB2 | 01:00 PM - 02:50 PM | T | room M5 Turner Hall | Bullock, D; Pataky, J |
| 31491: Quant Reasoning I course. | | | | | | |
| 31493 | lecture | AL1 | 11:00 AM - 11:50 AM | MW | room W115 Turner Hall | Bullock, D; Pataky, J |
| 31493: Quant Reasoning I course. | | | | | | |

261 *Biotechnology in Agriculture* Credit: 3 hours.

Basic introduction to the techniques and application of biotechnology to a wide range of agricultural areas, and specific examples are given. May serve as either a terminal course explaining the techniques or as an introductory base for future studies. Same as HORT 261. Prerequisite: Any 100-level course in a biosciences discipline.

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

| CRN | Type | Section | Time | Days | Location | Instructor |
|------------------------------|--------------------|---------|---------------------|------|-----------------------|------------|
| 31518 | lecture-discussion | A | 10:00 AM - 11:20 AM | TR | room W109 Turner Hall | Moose, S |
| 31518: Life Sciences course. | | | | | | |

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 |
|--|------------|---------|---------------------|------|---------------------|------------|
| 31495 | laboratory | A | 05:30 PM - 09:20 PM | M | room M5 Turner Hall | Lambert, K |
| 31495: ACES Class Materials 60.00 dollars. | | | | | | |

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 | | | | | | |

336 *Tomorrow's Environment* Credit: 3 hours.

Introduction to interdisciplinary methods of analysis of environmental problems in a finite world; examination of the concept of the limits to growth; development of a working understanding of natural systems and environmental economics; and examination of various management strategies (technical, economic, and social) that can be used to improve environmental quality. Same as CHLH 336, and ENVS 336. Prerequisite: One course in the life sciences and one course in the social sciences, or consent of instructor.

| CRN | Type | Section | Time | Days | Location | Instructor |
|---|--------------------|---------|---------------------|------|-----------------------|------------|
| 31524 | lecture-discussion | A | 02:30 PM - 03:45 PM | TR | room W109 Turner Hall | Plewa, M |
| 31527 | lecture-discussion | JH | 02:30 PM - 03:45 PM | TR | room W109 Turner Hall | Plewa, M |
| 31527: James Scholars course. This section for James Scholars only. | | | | | | |

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 |
|-------|------------|---------|---------------------|------|-------------------------------------|---------------------|
| 31497 | laboratory | AB1 | 01:00 PM - 02:50 PM | T | room 393 Bevier Hall | Diers, B; Beever, J |
| 31500 | laboratory | AB2 | 03:00 PM - 04:50 PM | T | room 107 Animal Sciences Laboratory | Diers, B; Beever, J |
| 31502 | laboratory | AB3 | 08:00 AM - 09:50 AM | T | room M5 Turner Hall | Diers, B; Beever, J |
| 31503 | 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 | | | | | | |

416 Perennial Grass Ecosystems Credit: 4 hours.

Same as HORT 436. See HORT 436.

| CRN | Type | Section | Time | Days | Location | Instructor |
|---------------------------------------|--------------------|---------|---------------------|------|-------------------------------------|------------|
| 34216 | lecture-discussion | H | 03:00 PM - 04:50 PM | MW | room 1103 Plant Sciences Laboratory | Branham, B |
| 34216: ACES Field Trip 25.00 dollars. | | | | | | |

418 Crop Growth and Management Credit: 3 hours.

Crop production and management as influenced by environment, plant species, and cropping system; relates plant growth processes to management practices. Prerequisite: NRES 201 and CPSC 112 or equivalent, or consent of instructor.

| CRN | Type | Section | Time | Days | Location | Instructor |
|-------|--------------------|---------|---------------------|------|--------------------------|------------|
| 31547 | lecture-discussion | A | 11:00 AM - 11:50 AM | MWF | room W109 Turner Hall | Tracy, B |

431 *Plants and Global Change* Credit: 3 hours.

The science of global atmospheric and climate change in the 21st Century. Understanding of how plants, including crops, will respond and may be adapted to these changes. Using plants to ameliorate predicted climate change. Same as IB 440, and NRES 431. Prerequisite: CPSC 112 or IB 103.

| CRN | Type | Section | Time | Days | Location | Instructor |
|-------|---------|---------|---------------------|------|--------------------------|------------|
| 31539 | lecture | A | 02:30 PM - 03:50 PM | TR | room 319 Gregory Hall | Long, S |

437 *Principles of Agroecology* Credit: 3 hours.

Examines the dynamics and function of agricultural ecosystems and reviews fundamental concepts of ecology. Agricultural systems will be compared on the basis of energy flow, nutrient cycling, diversity, stability and required inputs. Offered in alternate years. Prerequisite: IB 100 or IB 103 or equivalent.

| CRN | Type | Section | Time | Days | Location | Instructor |
|-------|-----------------------|---------|---------------------|------|--------------------------|------------|
| 31559 | discussion-recitation | AD1 | 11:00 AM - 11:50 AM | T | room W115 Turner Hall | Tracy, B |
| 31561 | lecture-discussion | AE1 | 10:00 AM - 11:50 AM | R | room W115 Turner Hall | Tracy, B |

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 |
|-------|--------------------|---------|---------------------|------|--------------------------|------------|
| 31563 | laboratory | AB1 | 01:00 PM - 02:50 PM | T | room N120 Turner Hall | Bollero, G |
| 31567 | laboratory | AB2 | 03:00 PM - 04:50 PM | T | room N120 Turner Hall | Bollero, G |
| 31570 | laboratory | AB3 | 05:00 PM - 06:50 PM | T | room N120 Turner Hall | Bollero, G |
| 31578 | lecture | AL1 | 08:00 AM - 09:20 AM | TR | room 106 Lincoln Hall | Bollero, G |
| 44338 | lecture-discussion | CH | 06:00 PM - 09:15 PM | M | room ARR 508 S Sixth | Bollero, G |

44338: Academic Outreach restrictions and assessments apply, see <http://www.outreach.uiuc.edu>. No class on Martin Luther King Day or March 20 during Spring Break. Open to undergraduates, graduates, and non-degree students. This course section is offered jointly with NRES. Text books may be purchased at the Illini Union Bookstore online at [http://www.uofibookstore.uiuc.edu/Interactive VideoMeets](http://www.uofibookstore.uiuc.edu/Interactive_VideoMeets) 09-Jan-06 - 24-Apr-06.XM Tuition 239, XM Tuition 215, XM Fees 36, and XM Fees 36.00 dollars.

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|-------|--------------------|----|---------------------|---|-----------------|------------|
| 44507 | lecture-discussion | OB | 06:00 PM - 09:15 PM | M | room ARR 1XUOPS | Bollero, G |
|-------|--------------------|----|---------------------|---|-----------------|------------|

44507: Academic Outreach restrictions and assessments apply, see <http://www.outreach.uiuc.edu>. No class on Martin Luther King Day or March 20 during Spring Break. Open to undergraduates, graduates, and non-degree students. This course section is offered jointly with NRES. Text books may be purchased at the Illini Union Bookstore online at [http://www.uofibookstore.uiuc.edu/Interactive VideoMeets](http://www.uofibookstore.uiuc.edu/Interactive_VideoMeets) 09-Jan-06 - 24-Apr-06.XM Tuition 239, XM Tuition 215, XM Fees 36, and XM Fees 36.00 dollars.

| | | | | | | |
|-------|--------------------|----|---------------------|---|----------------|------------|
| 45155 | lecture-discussion | SH | 06:00 PM - 09:15 PM | M | room ARR 1XLUL | Bollero, G |
|-------|--------------------|----|---------------------|---|----------------|------------|

45155: Academic Outreach restrictions and assessments apply, see <http://www.outreach.uiuc.edu>. This course will be held at the Shawnee Community College in Ullin IL. It is an Interactive 2-way video. No class on Martin Luther King Day or March 20 during Spring Break. Open to undergraduates, graduates and non-degree. Offered jointly with NRES. Text books may be purchased at the Illini Union Bookstore online at [http://www.uofibookstore.uiuc.edu/Interactive VideoMeets](http://www.uofibookstore.uiuc.edu/Interactive_VideoMeets) 09-Jan-06 - 24-Apr-06.XM Tuition 239, XM Tuition 215, XM Fees 36, and XM Fees 36.00 dollars.

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|-------|--------------------|----|---------------------|---|----------------|------------|
| 44344 | lecture-discussion | SP | 06:00 PM - 09:15 PM | M | room ARR 1XUIS | Bollero, G |
|-------|--------------------|----|---------------------|---|----------------|------------|

44344: Academic Outreach restrictions and assessments apply, see <http://www.outreach.uiuc.edu>. No class on Martin Luther King Day or March 20 during Spring Break. Open to undergraduates, graduates, and non-degree students. This course section is offered jointly with NRES. Text books may be purchased at the Illini Union Bookstore online at [http://www.uofibookstore.uiuc.edu/Interactive VideoMeets](http://www.uofibookstore.uiuc.edu/Interactive_VideoMeets) 09-Jan-06 - 24-Apr-06.XM Tuition 239, XM Tuition 215, XM Fees 36, and XM Fees 36.00 dollars.

449 *Spatial Ecosystem Modeling* Credit: 3 or 4 hours.
Same as GEOG 469, IB 492, and NRES 469. See GEOG 469.

| CRN | Type | Section | Time | Days | Location | Instructor |
|---|-----------------------|---------|---------------------|------|---------------------------------|------------|
| 41138 | lecture-discussion | G1 | 01:00 PM - 03:20 PM | T | room G27 Foreign Languages Bldg | Hannon, B |
| 41138: 4 hours Undergraduate students register for section U1, Graduate and Professional students register for section G1 | | | | | | |
| 38721 | laboratory-discussion | U1 | 01:00 PM - 03:20 PM | T | room G27 Foreign Languages Bldg | Hannon, B |
| 38721: 3 hours Undergraduate students register for section U1, Graduate and Professional students register for section G1 | | | | | | |

475 *Insect Pathology* Credit: 4 hours.
Same as IB 483. See IB 483.

| CRN | Type | Section | Time | Days | Location | Instructor |
|--|------------|---------|---------------------|------|---|------------|
| 43883 | laboratory | AB1 | 10:30 AM - 12:00 PM | TR | room ARR National Soybean Res Ctr | Solter, L |
| 43883: This lab will meet in 137 NSRC. | | | | | | |
| 43884 | laboratory | AB2 | 03:30 PM - 05:00 PM | TR | | Solter, L |
| 43884: This lab will meet in 137 NSRC. | | | | | | |
| 43882 | lecture | AL1 | 09:00 AM - 10:15 AM | TR | room 250 National Soybean Res Ctr | Solter, L |

477 *Biol Control of Insect Pests* Credit: 2 hours.
Same as IB 484. See IB 484.

| CRN | Type | Section | Time | Days | Location | Instructor |
|-------|------------|---------|---------------------|------|--------------------------|-----------------|
| 34672 | laboratory | AB1 | 10:00 AM - 10:50 AM | F | room 140 Burrill Hall | Sathyamurthy, R |
| 34673 | lecture | AL1 | 09:00 AM - 09:50 AM | MWF | room 140 Burrill Hall | Sathyamurthy, R |

482 *Plant Tissue Culture* Credit: 4 hours.
Same as HORT 482. See HORT 482.

| CRN | Type | Section | Time | Days | Location | Instructor |
|-------|---------------------------|---------|---------------------|------|---|------------------------------|
| 34214 | laboratory- discussion | A | 12:00 PM - 01:50 PM | TR | room 1103 Plant Sciences Laboratory | Seufferheld, M; Norton, M |

484 *Plant Physiology* Credit: 3 hours.
Same as IB 420. See IB 420.

| CRN | Type | Section | Time | Days | Location | Instructor |
|---|------------------------|---------|---------------------|------|--------------------------------|------------|
| 34657 | lecture | A | 01:00 PM - 02:20 PM | TR | room 106B8 Engineering Hall | Briskin, D |
| 44508 | lecture- discussion | CH | 06:30 PM - 09:45 PM | T | room ARR 508 S Sixth | Briskin, D |
| 44508: Academic Outreach restrictions and assessments apply, see http://www.outreach.uiuc.edu . No class during Spring Break. Open to undergraduates, graduates, and non-degree students. This course section is | | | | | | |

offered jointly with NRES. Textbooks can be purchased at the Illini Union bookstore online. Interactive VideoMeets 17-Jan-06 - 25-Apr-06. XM Tuition 239, XM Tuition 215, XM Fees 36, and XM Fees 36.00 dollars.

| | | | | | | |
|-------|--------------------|----|---------------------|---|----------------|------------|
| 44522 | lecture-discussion | JO | 06:30 PM - 09:45 PM | T | room ARR 1XJJC | Briskin, D |
|-------|--------------------|----|---------------------|---|----------------|------------|

44522: Academic Outreach restrictions and assessments apply, see <http://www.outreach.uiuc.edu>. No class during Spring Break. Open to undergraduates, graduates, and non-degree students. This course section is offered jointly with NRES. Textbooks can be purchased at the Illini Union bookstore online. Interactive VideoMeets 17-Jan-06 - 25-Apr-06. XM Tuition 239, XM Tuition 215, XM Fees 36, and XM Fees 36.00 dollars.

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|-------|--------------------|----|---------------------|---|---------------|------------|
| 44513 | lecture-discussion | MA | 06:30 PM - 09:45 PM | T | room ARR 1XKC | Briskin, D |
|-------|--------------------|----|---------------------|---|---------------|------------|

44513: Academic Outreach restrictions and assessments apply, see <http://www.outreach.uiuc.edu>. No class during Spring Break. Open to undergraduates, graduates, and non-degree students. This course section is offered jointly with NRES. It will be held in Room A251 at Kishwaukee College, Malta IL. Textbooks can be purchased at the Illini Union bookstore online. Interactive VideoMeets 17-Jan-06 - 25-Apr-06. XM Tuition 239, XM Tuition 215, XM Fees 36, and XM Fees 36.00 dollars.

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|-------|--------------------|----|---------------------|---|-----------------|------------|
| 44521 | lecture-discussion | OB | 06:30 PM - 09:45 PM | T | room ARR 1XUOPS | Briskin, D |
|-------|--------------------|----|---------------------|---|-----------------|------------|

44521: Academic Outreach restrictions and assessments apply, see <http://www.outreach.uiuc.edu>. No class during Spring Break. Open to undergraduates, graduates, and non-degree students. This course section is offered jointly with NRES. Textbooks can be purchased at the Illini Union bookstore online. Interactive VideoMeets 17-Jan-06 - 25-Apr-06. XM Tuition 239, XM Tuition 215, XM Fees 36, and XM Fees 36.00 dollars.

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 |
|-------|-----------------------|---------|---------------------|------|-----------------------|--------------------|
| 31538 | discussion-recitation | A | 04:00 PM - 04:50 PM | R | room W109 Turner Hall | D'Arcy, C; Gray, M |

499 Seminar Credit: 0 to 4 hours.

Group discussion or an experimental course on a special topic in crop sciences. May be repeated to a maximum of 12 hours.

| CRN | Type | Section | Time | Days | Location | Instructor |
|---|-------------------|---------|---------------------|------|-----------------------|------------|
| 10564 | independent study | | ARRANGED | | | |
| 10564: Instructor Approval Required | | | | | | |
| 43629 | laboratory | AB1 | 01:00 PM - 02:50 PM | W | room N120 Turner Hall | Bollero, G |
| 43629: 4 hours App. Multivariate Statistics | | | | | | |
| 43628 | lecture | AL | 03:00 PM - 04:20 | TR | room N107 | Bollero, G |

| | | | | | | |
|---|------------------------|-----|------------------------|---|--------------------------|-----------------------|
| | | | PM | | Turner Hall | |
| 43628: App. Multivariate Statistics | | | | | | |
| 44824 | laboratory | BB1 | ARRANGED | | room N120 Turner Hall | Hudson, M |
| 44824: Perl & Unix for BioinformaticMeets 13-Mar-06 - 03-May-06. | | | | | | |
| 44472 | lecture- discussion | BE1 | 02:00 PM - 04:50 PM | M | room N120 Turner Hall | Hudson, M |
| 44472: 2 hoursPerl & Unix for BioinformaticMeets 13-Mar-06 - 03-May-06. | | | | | | |
| 40907 | conference | BP | 05:00 PM - 06:20 PM | T | room W109 Turner Hall | Stoller, P; Dunker, R |
| 40907: 2 hoursCrops ContestDepartmental Approval Required | | | | | | |

518 *Crop Growth and Development* Credit: 4 hours.

Study of the physiological processes involved in growth and development of crop plants and the interaction of these processes with the environment that influences productivity. Prerequisite: CPSC 418 or CPSC 484.

| CRN | Type | Section | Time | Days | Location | Instructor |
|--|------------------------|---------|------------------------|------|--------------------------|------------|
| 31648 | lecture | A | 09:00 AM - 09:50 AM | MWF | room W115 Turner Hall | Below, F |
| 44523 | lecture- discussion | CH | 06:30 PM - 09:45 PM | W | room N107 Turner Hall | Below, F |
| 44523: Academic Outreach restrictions and assessments apply, see http://www.outreach.uiuc.edu . Class will meet March 22 during Spring Break. One all-day Saturday class to be arranged. Open to graduates and non-degree students.Meets 18-Jan-06 - 26-Apr-06.XM Tuition 239, XM Tuition 215, XM Fees 36, and XM Fees 36.00 dollars. | | | | | | |

540 *Applied Statistical Methods II* Credit: 4 hours.

Statistical methods as tools for research. Principles of designing experiments and methods of analysis for various kinds of designs, experimental (completely randomized, randomized complete block, split plots, Latin square) and treatment (complete factorial); covariate analysis; aspects of multiple regression; use of SAS for all analyses. Prerequisite: CPSC 440 or equivalent.

| CRN | Type | Section | Time | Days | Location | Instructor |
|-------|---------------------------|---------|------------------------|------|--------------------------|------------|
| 31664 | lecture | AL1 | 03:00 PM - 04:50 PM | MW | room W109 Turner Hall | Bullock, D |
| 31657 | laboratory- discussion | AY1 | 01:00 PM - 02:50 PM | R | room N120 Turner Hall | Bullock, D |
| 31661 | laboratory- discussion | AY2 | 03:00 PM - 04:50 PM | R | room N120 Turner Hall | Bullock, D |

563 *Molecular Cytogenetics* Credit: 4 hours.

This class includes cytogenetic analysis of eukaryotic organisms, the role of chromosomes in genome organization and evolution, and introduction to molecular cytogenetic laboratory techniques such as mitotic analysis, chromosome banding, flow cytogenetics, somatic cell genetics, chromosomal length polymorphisms, fluorescent microscopy and in situ hybridization. Prerequisite: CPSC 352 and MCB 350, or consent of instructor.

| CRN | Type | Section | Time | Days | Location | Instructor |
|-------|---------|---------|---------------------|------|--------------------------|------------|
| 31654 | lecture | A | 10:00 AM - 11:50 AM | TR | room W223 Turner Hall | Rayburn, A |

566 *Plant Gene Regulation* Credit: 4 hours.

Current topics and literature on the function and regulation of higher plant genes. Topics of emphasis: transposable elements, their effect on gene expression and variation, and uses in tagging and isolating genes; the developmental, tissue specific, or environmental regulations of plant genes; the structure, synthesis, subcellular targeting, and regulation of major cereal and legume seed proteins; the use of genetic engineering to explore the regulation of plant genes or to alter traits of agricultural importance. Same as HORT 566. Prerequisite: CPSC 352, MCB 350, or consent of instructor.

| CRN | Type | Section | Time | Days | Location | Instructor |
|----------------|--------------------|---------|---------------------|------|--------------------------|------------|
| 43483 | lecture-discussion | A | 11:00 AM - 11:50 AM | MWF | room N107 Turner Hall | Vodkin, L |
| 43483: 4 hours | | | | | | |

569 *Applied Bioinformatics* Credit: 4 hours.

Same as ANSC 542. See ANSC 542.

| CRN | Type | Section | Time | Days | Location | Instructor |
|-------|--------------------|---------|---------------------|------|--------------------------|---|
| 40264 | lecture-discussion | A | 10:00 AM - 11:20 AM | TR | room N120 Turner Hall | Rodriguez-Zas, S; Caetano-Anolles, G |

588 *Plant Biochemistry* Credit: 4 hours.

Enzymes and pathways involved in plant intermediary metabolism. Basic cell physiology, bioenergetics, and hormonal regulation of metabolism. Same as HORT 588, and IB 524. Prerequisite: CPSC 484 and MCB 350.

| CRN | Type | Section | Time | Days | Location | Instructor |
|--|--------------------|---------|---------------------|------|--------------------|------------|
| 45495 | lecture-discussion | OB | 06:30 PM - 09:45 PM | T | room ARR 1XUOPS | Briskin, D |
| 45495: Academic Outreach Aprvl ReqdMeets 17-Jan-06 - 25-Apr-06.XM Tuition 239, XM Tuition 215, XM Fees 36, and XM Fees 36.00 dollars. | | | | | | |
| 45495: Academic Outreach restrictions and assessments apply, see http://www.outreach.uiuc.edu . Off-campus Crop Science Graduates only for this course. | | | | | | |

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. Instructor Approval Required.

| CRN | Type | Section | Time | Days | Location | Instructor |
|--|-------------------|---------|----------|------|----------|------------|
| 10567 | independent study | | ARRANGED | | | |
| 10567: Instructor Approval Required | | | | | | |
| 42059 | independent study | FB | ARRANGED | | | Below, F |
| 42059: 1 hours Academic Outreach Aprvl Reqd Academic Outreach restrictions and assessments apply, see http://www.outreach.uiuc.edu Meets 17-Jan-06 - 01-May-06.XM Tuition 239, XM Tuition 215, XM Fees 36, and XM Fees 36.00 dollars. | | | | | | |

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 |
|-------|-----------------------|---------|---------------------|------|-----------------------|--------------------------|
| 31632 | discussion-recitation | C1 | 12:00 PM - 12:50 PM | R | room W109 Turner Hall | Babadoost, M; Davis, A |
| 31636 | lecture-discussion | C2 | 12:00 PM - 12:50 PM | R | room W109 Turner Hall | Babadoost, M; Davis, A |
| 31638 | discussion-recitation | G1 | 12:00 PM - 12:50 PM | W | room W109 Turner Hall | Zielinski, R; Rayburn, A |
| 31639 | lecture-discussion | G2 | 12:00 PM - 12:50 PM | W | room W109 Turner Hall | Zielinski, R; Rayburn, A |
| 31642 | discussion-recitation | P1 | 12:00 PM - 12:50 PM | R | room W109 Turner Hall | Babadoost, M; Davis, A |
| 31645 | lecture-discussion | P2 | 12:00 PM - 12:50 PM | R | room W109 Turner Hall | Babadoost, M; Davis, A |

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.

| CRN | Type | Section | Time | Days | Location | Instructor |
|-------------------------------------|-------------------|----------------|-------------|-------------|-----------------|-------------------|
| 10569 | independent study | | ARRANGED | | | |
| 10569: Instructor Approval Required | | | | | | |