

# Summer Session 2013

Session I	May 20 - July 12
Session II	June 17 - August 9
University Holidays	May 27 July 4

## Registration Start Dates for Summer 2013

Veterinary Medicine students:	Monday, March 25
Graduate students:	Monday, March 25 - Wednesday, March 27
All seniors:	Tuesday, March 26 - Monday, April 1
Projected juniors:	Tuesday, April 2 - Monday, April 8
Projected sophomores:	Tuesday, April 9 - Monday, April 15
Continuing freshmen:	Tuesday, April 16 - Wednesday, April 24

Registration start dates are assigned based on projected year-in-school classification (computed by combining total credits and current term credits).

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# Key Dates, Deadlines, Information

## Class Registration on AccessPlus

Hours: 7 a.m.- 11 p.m., Monday-Saturday.

## Academic Probation

Academic probation is an indication of very serious academic difficulty which may result in dismissal from the university. Students may be placed on academic probation as a result of either semester GPA, cumulative GPA, or both. Students who are placed on academic probation are required to develop a plan for academic improvement in consultation with their academic adviser which may include referral to the Academic Success Center. Academic probation status is not a part of the student's permanent academic record. More information about assistance and the policy go to the ISU index under Probation, Academic.

## Auditing Courses

You must register for a full semester course audit by day 10 of the semester. Instructors must approve all audits. Audited courses do not count toward determining full-time student status, but are considered the same as a credit course for fee assessment purposes and maximum number of credits allowed each semester. To find out specific deadlines for partial term courses, go the ISU index under Schedule Changes, or contact the Registrar's Student Scheduling Office, 10 Enrollment Services Center, 294-2331.

## Fee Payment Deadlines

Fee payment deadlines for Summer 2013 are May 20, June 20, and July 20 for deferred billing. A \$20 deferred billing charge is assessed. Contact Accounts Receivables for information.

## Graduation Information

If you plan to graduate Summer 2013, you need to complete a graduation application. If graduating, go to the ISU website index under Graduation and Commencement, click on students, then choose graduation application.

## Registration Start Dates

Registration start dates are assigned based on projected year-in-school classification, which is computed by combining total credits and current term credits. Graduate students and seniors register first, followed by juniors, sophomores, and then freshmen and nondegree students. Courses will begin to fill on the first day of registration, so students should register as early as their start date and time allows.

## Room Assignments

Room assignments will be available on AccessPlus class schedule on Monday, April 29. To find a map of room locations on campus go to the ISU index under Classroom abbreviations.

## Schedule Changes

You can drop summer session I courses using AccessPlus Registration through Friday, May 24. You can add summer session I courses using AccessPlus Registration through Wednesday, May 22. For additional schedule change deadlines go to the ISU index under Schedule Changes.

## Student Answer Center

Have a question and not sure where to go for the answer? Contact the Student Answer Center, ground floor, Beardshear. The Answer Center is open, Monday-Friday, 8 a.m.-5 p.m., or e-mail: [answercenter@iastate.edu](mailto:answercenter@iastate.edu).

# University Calendar Summer 2013

May 19, Sun.	<ul style="list-style-type: none"> <li>Last day to cancel registration for summer to avoid tuition assessment.</li> </ul>	<ul style="list-style-type: none"> <li>Last day to change a Session II course from Pass/Not Pass to grade without it counting toward the total allowable P/NP credits used for graduation.</li> </ul>
May 20, Mon.	<ul style="list-style-type: none"> <li>Class work begins, Session I courses.</li> <li>Fee payment deadline for summer semester. First payment (minimum due) or payment in full.</li> </ul>	<ul style="list-style-type: none"> <li>Last day to elect to audit a course for Summer Session II. The instructor of the course must approve an audit.</li> </ul>
May 22, Wed.	<ul style="list-style-type: none"> <li>Last day to add a Session I course without instructor's signature.</li> <li>Last day to process adds or section changes for a Session I course through AccessPlus registration.</li> </ul>	<ul style="list-style-type: none"> <li>Last day to change a Session II course from audit to credit basis.</li> <li>Last day to add/drop a course or withdraw without extenuating circumstances (Session I courses).</li> </ul>
May 24, Fri.	<ul style="list-style-type: none"> <li>Last day to process most schedule changes without a fee; or to add/drop a Session I course without signatures of instructor and adviser.</li> <li>Last day to drop a Session I course without the drop appearing on the permanent record or counting toward the limit of dropped courses.</li> <li>Last day to drop a Session I course through AccessPlus registration.</li> <li>Last day to change a Session I course from Pass/Not Pass to grade without it counting toward total allowable P/NP credits used for graduation.</li> <li>Last day to change a Session I course from audit to credit basis.</li> <li>Last day to elect to audit a course for Summer Session I. The instructor of the course must approve an audit.</li> </ul>	<ul style="list-style-type: none"> <li>Last day to change a Session I course to from Pass/Not Pass to grade. Courses changed to graded basis after May 24 count toward the total allowable P/NP credits used for graduation.</li> <li>Fee payment deadline for summer. Second payment (minimum due).</li> <li>4 p.m., Preliminary room assignments for Fall 2013, with changes, due back to Room Scheduling from departments.</li> <li>Last day for graduate students to cancel graduation without being assessed a nonrefundable graduation fee.</li> <li>University holiday—offices closed, classes recessed.</li> <li>Summer Session I ends.</li> <li>Graduate College: last day for final oral examinations.</li> <li>Last day to add/drop a course or withdraw without extenuating circumstances (Session II courses).</li> <li>Last day to change a Session II course to or from Pass/Not Pass. Courses changed to graded basis after June 21 count toward the total allowable P/NP credits used for graduation.</li> <li>Last day to file a Designation of Repeated Course form for a summer course that is not an automatic designated repeat.</li> <li>Fee payment deadline for summer semester. Final payment due.</li> <li>Graduate College: last day for final submission of graduate student graduation approval slip.</li> <li>Graduate College: last day to submit signed Submission Request Form for electronic thesis or dissertation.</li> <li>Graduate College: last day to submit final electronic thesis/dissertation copy for Thesis Office review.</li> <li>Room assignments for Fall 2013 courses displayed on-line.</li> <li>University bills with Fall 2013 tuition and fees charges available on AccessPlus <a href="http://accessplus.iastate.edu">http://accessplus.iastate.edu</a>.</li> <li>Summer Session II ends.</li> <li>Final grades due on WebCT, Bb Learn or AccessPlus.</li> <li>Grade reports available on AccessPlus.</li> </ul>
		June 20, Wed.
		June 22, Fri.
		July 4, Wed.
		July 12, Fri.
		July 19, Fri.
May 27, Mon.	<ul style="list-style-type: none"> <li>University holiday—offices closed, classes recessed.</li> </ul>	
May 31, Fri.	<ul style="list-style-type: none"> <li>Last day to elect to audit a course for a twelve-week, full summer course. The instructor of the course must approve an audit.</li> </ul>	
June 3, Mon.	<ul style="list-style-type: none"> <li>Deadline for approval (with all signatures) of new experimental course forms for Fall 2013.</li> <li>Preliminary room assignments for Fall 2013 distributed to departments from Room Scheduling.</li> <li>Original course offerings for Spring 2014 distributed to departments.</li> <li>Departments should begin approval process for new Spring 2014 experimental courses.</li> </ul>	July 20, Fri.
June 14, Fri.	<ul style="list-style-type: none"> <li>Class work begins, Session II courses.</li> </ul>	July 23, Tues.
June 17, Mon.	<ul style="list-style-type: none"> <li>Last day to add a Session II course without instructor's signature.</li> <li>Last day to process adds or section changes for a Session II course through AccessPlus registration.</li> </ul>	July 27, Sat.
June 19, Wed.	<ul style="list-style-type: none"> <li>Fee payment deadline for summer. Second payment (minimum due).</li> <li>Last day to process a schedule change without a fee or to drop a Session II course without signatures of instructor and adviser.</li> <li>Last day to drop a Session II course without the drop appearing on the permanent record or counting toward the limit of dropped courses.</li> <li>Last day to drop a Session II course through AccessPlus registration.</li> </ul>	Aug. 1, Thurs.
June 20, Thurs.		Aug. 9, Fri.
June 21, Fri.		Aug. 13, Tues., 2:15 p.m.
		Aug. 14, Wed.

## Resources

### Admissions [www.admissions.iastate.edu](http://www.admissions.iastate.edu)

General Information..... 100 Enrollment Services Center ..... (515)294-5836

### College Student Services Offices

Agriculture and Life Sciences .....	23 Curtiss .....	294-8653
Business .....	1200 Gerdin.....	294-8430
Design .....	297 College of Design .....	294-6983
Engineering .....	110 Marston .....	294-3900
Graduate College .....	1137 Pearson.....	294-4531
Human Sciences .....	0131 MacKay .....	294-6466
Liberal Arts and Sciences .....	109 Carrie Chapman Catt Hall .....	294-1522
Veterinary Medicine .....	2540 Veterinary Medicine .....	294-0772

### Financial Aid Office [www.financialaid.iastate.edu](http://www.financialaid.iastate.edu)

General Information .....0210 Beardshear ..... 294-2223

### ISUCard Office [www.adp.iastate.edu/idcard/](http://www.adp.iastate.edu/idcard/)

ISUCard Office ..... 0530 Beardshear ..... 294-2727

### Office of the Registrar [www.iastate.edu/~registrar/](http://www.iastate.edu/~registrar/)

Certifications .....	214 Enrollment Services Center .....	294-1840
Degree Audits.....	210 Enrollment Services Center.....	294-0802
Fees & Tuition .....	0460 Beardshear .....	294-1889
Graduation .....	210 Enrollment Services Center .....	294-9372
Registrar's Office Information.....	214 Enrollment Services Center .....	294-1840
Registration .....	10 Enrollment Services Center .....	294-2331
Residency Status for Fees & Admission	210 Enrollment Services Center .....	294-3632
Schedule Changes .....	10 Enrollment Services Center .....	294-2331
Student Records .....	214 Enrollment Services Center .....	294-1843
Transcripts .....	214 Enrollment Services Center .....	294-1840
Veterans Certification .....	214 Enrollment Services Center .....	294-1840

### Registration Hold Contacts

Accounts Receivables Office .....	0880 Beardshear .....	294-7388
Admissions .....	100 Enrollment Services Center .....	294-5836
Dean of Students Office .....	1010 Student Services Building .....	294-1021
Graduate College .....	1137 Pearson .....	294-4531
International Students and Scholars .....	3248 Memorial Union .....	294-1120
Loans Receivable .....	0880 Beardshear .....	294-8747
Memorial Union .....	214 Memorial Union .....	294-0993
Multicultural Student Affairs .....	2080 Student Services Building, .....	294-6338
Registrar Student Scheduling .....	10 Enrollment Services Center .....	294-2331
Student Health .....	Thomas B. Thielen Student Health Center .....	294-5801

### Student Answer Center [www.answer.iastate.edu/](http://www.answer.iastate.edu/)

Student Answer Center ..... Ground Floor Beardshear ..... 294-4469

### Voter Registration

To learn how to register to vote, or to find out more about voting in Iowa, go to [www.sos.state.ia.us/](http://www.sos.state.ia.us/).

Voter registration forms are available in the Office of the Registrar, 214 Enrollment Services Center, and the Student Answer Center, Ground Floor, Beardshear.

# Admission

**New Students** Prospective students should contact the Office of Admissions for information concerning admission procedures. Refer to the *Iowa State University Undergraduate and Graduate Courses and Programs* catalog for specific requirements for admission located at [www.catalog.iastate.edu](http://www.catalog.iastate.edu). Applications are available through the Iowa State University home page, by clicking on “Apply” under Prospective Students or by contacting the Office of Admissions, 100 Enrollment Services Center. The completed application, application fee, and all required transcripts must be received by the Office of Admissions before admission is complete. Approval for admission is necessary before a student begins the registration process.

**Graduate Students** Students who have earned a bachelor’s degree and wish to pursue an advanced degree or certificate program should submit a graduate application for admission.

**Nondegree Students** Students who wish to enroll for undergraduate or graduate courses, but do not intend to earn a degree from Iowa State, should submit the nondegree application for admission. Undergraduate courses taken as an undergraduate nondegree student may later be applied toward undergraduate degree requirements if approved by the student’s college. Graduate courses taken as an undergraduate nondegree student can NOT be used on a graduate degree program. Students who have earned a bachelor’s degree and wish to enroll in graduate level courses must apply as nondegree graduates if they have not been admitted to a graduate program. Only nine semester credits of graduate level courses taken as a nondegree graduate student may be applied toward a graduate degree if approved by the student’s program of study committee.

## Summer Trial Enrollment

Some students who do not meet the freshman admission requirements may be offered the opportunity to enroll during the summer session on a trial basis. This allows some students, who otherwise would be denied admission to Iowa State, an opportunity to demonstrate they are capable of successfully completing college-level courses. Students who successfully complete the summer trial enrollment will be allowed to continue their enrollment in the fall semester. For more specific information, contact the Office of Admissions.

### Undergraduate students, both nondegree and degree seeking:

Non-international undergraduate students, both degree and nondegree seeking, who are planning to return to Iowa State University after an absence of 12 or more months must complete a reentry form. A student who has previously attended Iowa State only as a non-degree student and who now seeks to earn an undergraduate degree should complete an undergraduate application.

## Reentering Students

Reentry forms are available through the ISU index under Reentering ISU or from the Office of the Registrar, Tuition and Fees area, 0460 Beardshear, at 515-294-1889, or e-mail [reentry@iastate.edu](mailto:reentry@iastate.edu). Return the completed form to the Office of the Registrar well in advance of the beginning of the term for which reentry is desired. Degree-seeking students who have attended another college or university since their last enrollment at Iowa State must send official transcripts of all course work attempted to the Office of Admissions, 100 Enrollment Services Center. standing; or (d) since leaving Iowa State, has completed begin

Questions about the registration process, contact:

**Office of the Registrar’s Student Scheduling Office**  
10 Enrollment Services Center,  
515-294-2331

### College student services offices:

**Agriculture and Life Sciences**  
20 Curtiss  
294-8653

**Business**  
1200 Gerdin  
294-8430

**Design**  
297 College of Design  
294-6983

**Engineering**  
110 Marston  
294-3900

**Graduate College**  
1137 Pearson  
294-4531

**Human Sciences**  
0131 MacKay  
294-6466

**Liberal Arts and Sciences**  
141 Carrie Chapman Catt Hall  
294-1522

**Veterinary Medicine**  
2540 Vet Med  
294-0772

## International Students

All international students must complete the reentry form and a financial statement (for visa purposes) after an absence of one semester or more (not including summer term). International student reentry forms are available through the ISU index under Reentering ISU, International Students and Scholars or from the Tuition and Fees area at 0460 Beardshear Hall. Return all parts of the completed reentry form and related documentation to the Office of the Registrar well in advance of the beginning of the term for which reentry is desired. Degree-seeking Students who have attended another college or university since their last enrollment at Iowa State must send official transcripts of all course work to the Office of Admissions, 100 Enrollment Services Center. Once reentry has been approved, the reentry form will be forwarded to the Office of International Students and Scholars for financial certification and visa eligibility. Questions related to financial certification or visas should be directed to the Office of International Students and Scholars, 3248 Memorial Union, at 515-294-1120, or by e-mail: [intlserv@iastate.edu](mailto:intlserv@iastate.edu).

## Academically Dismissed

A student who was academically dismissed must submit (1) a reentry form to the Office of the Registrar and (2) a petition for reinstatement to the college in which they wish to enroll at least 45 days before the beginning of the term. Students who have been academically dropped twice and wish to return to the College of Liberal Arts and Sciences must submit their petition at least 70 days before the beginning of the term.

## Approving Reentry

All reentry forms should be submitted to the Office of the Registrar, Tuition and Fees area, 0460 Beardshear Hall; or faxed to 515-294-6773 well in advance of the beginning of the term for which reentry is sought. The Office of the Registrar will process the form, or refer the reentry form to the college to which a student plans to return if the student (a) desires to change curriculum; (b) has a previous Iowa State University cumulative grade point average below 2.00 or had a last term average below 2.00; (c) was dropped from Iowa State for unsatisfactory academic progress or was not otherwise in good standing; or (d) since leaving Iowa State, has completed additional college study with less than a 2.00 grade point average. Once approved, they will receive a letter from the Office of the Registrar with information about registration.

## How to Register

Reentering students should contact their adviser or departmental office to select courses and begin the registration process. New and reentering students are encouraged to register during the web registration period, and will be assigned registration start dates according to their year-in-school classification using the same general guidelines as currently enrolled students. Since courses begin to fill on the first day of the registration period, students should register as early as their start date and time allow.

## Returning Students

### Undergraduate and Nondegree Students

Non-international undergraduate and non-degree students, who have been away from Iowa State for less than 12 months and who were not academically dismissed, may contact the Office of the Registrar, Tuition and Fees area, at 515-294-1889 or e-mail: [reentry@iastate.edu](mailto:reentry@iastate.edu) to have their student record and address information updated prior to meeting with their adviser to discuss course selection. These students do not need to complete a reentry form.

### Academically Dismissed

Returning students who have been academically dismissed should contact their college student services office regarding procedures for reinstatement. Students who want to change colleges should contact their prospective college student services office.

### Graduate Students

All graduate students who have been away from Iowa State for at least one semester (not including summer) should contact the Office of the Registrar, Tuition and Fees area, at 515-294-1889 or e-mail: [reentry@iastate.edu](mailto:reentry@iastate.edu) to have their student record and address information updated prior to meeting with their major professor to discuss course selection. International graduate students must file a student financial statement for visa purposes. The form is available from International Students and Scholars, 252 Memorial Union, 515-294-1120, or e-mail: [intlserv@iastate.edu](mailto:intlserv@iastate.edu).

# Registration

To prepare to register for classes, you can use the following materials and information:

- Registration Worksheet, available for download through the Registrar's web site index under Forms.
- RAN (registration access number) if required by your college.
- Course information from the Schedule of Classes at <http://classes.iastate.edu/>.
- Class Schedule Planner at <http://planner.iastate.edu/>.
- Other departmental information applicable to your curriculum.

## To register, follow these steps:

**1** Meet with your academic adviser, who will provide the following:

- a. degree audit.
- b. guidance in course selection
- c. Registration Authorization Card, with RAN, if applicable.

**2** Choose specific sections for each course you want to take. In most cases, your adviser will not be involved in selecting meeting times. You can use the Schedule of Classes (<http://classes.iastate.edu>) and Class Schedule Planner (<http://planner.iastate.edu>) to plan your schedule.

**3** Review your registration start date/time information and any registration hold information on AccessPlus, under Current Information. You must resolve holds on your registration in order to register for classes.

**4** Register for courses using the AccessPlus registration system. Room locations for courses will be available on AccessPlus in late July.

**5** Remember to pay your fees. Registration is not complete until all fees are paid, including, tuition, room and board and other university charges. View your university bill on AccessPlus. Failure to view your account on AccessPlus will not exempt you from late penalties or from having a hold placed on your registration. If you have questions, call 515-294-7388.

## Initiating Registration

The last day to initiate a new registration for through AccessPlus registration or the Student Scheduling Office in 10 Enrollment Services Center for Summer 2013 is Sunday, May 16.

## Cancelling Registration

Notify the Office of the Registrar by 4 p.m. Friday, May 14, of intent to cancel registration, or drop all classes on AccessPlus by 10 p.m. Sunday, May 16, to avoid tuition assessment. For information and a cancellation form, go to the ISU index under Cancelling Registration.

## RAN

The registration access number (RAN) is a confidential, personal number required by some colleges to use the registration system. Colleges that currently do not require a RAN are Business, Veterinary Medicine, and the Graduate College. Since students will be held accountable for all changes made to the schedule through AccessPlus, do not share this number. Students will be assigned a new RAN each registration period.

## Registration System Abuse

Using the AccessPlus registration system is a privilege, which may be revoked if abuse is detected. Abuse includes, but is not limited to, creating and using an automated program to search for course openings and/or enrolling in a section with the intent of reserving space in that particular section for another student. The Office of the Registrar, college office, and/or advisers have the right to determine abuse and revoke privileges for any type of registration system abuse

### AccessPlus Registration Tips

Hours for the system: Monday-Saturday, 7 a.m. - 11 p.m.

- Review your schedule for time conflicts.
- If you need to register for a course that currently has no space available, please attempt to add the course anyway. Requesting a closed course will help departments determine what course demands are still unmet.
- When making a section change within a course, try to add the new section first. If the requested section is open, the previous section will automatically be dropped from your schedule.
- Entering the Registration Access Number (RAN) is no longer required once courses exist on your schedule. If you are already registered, you won't need to enter the RAN again to change your schedule.
- If you get the message "You have requested a restricted section for which you are not eligible," click on the Details button on the Search page to view course section restrictions.
- If you are in a learning community, you must add the learning community reference number first before other courses exist on your schedule. You cannot drop a LTM without dropping all associated courses.

# Schedule of Classes

<http://classes.iastate.edu/>

Schedule of Classes information can be accessed directly at <http://classes.iastate.edu/>. The Schedule of Classes information is updated regularly through the first week of a term. In addition to the course listing, the online information includes meeting rooms, seats open and additional instructor assignments as they become available.

Follow the instructions on the Search Tips link to assist when locating classes. The information is especially helpful if looking for courses in specific categories e.g., half term, U.S. Diversity/International Perspectives, or courses offered at a specific time of day.

# Schedule Planner

<http://planner.iastate.edu/>

The Class Schedule Planner allows you to plan your schedule using courses displayed in the Schedule of Classes at [www.iastate.edu](http://www.iastate.edu).

Students can select courses and/or sections for a particular term, as well as block out unavailable class days and times. Based on those selections, Class Schedule Planner can return all possible schedules in a color coded grid format.

Though it is a web-based application, the Class Schedule Planner does not require authentication (no user ID, PIN, or password). Therefore, it is essential that students understand that this is a planner and, as such, it does not register students in courses and cannot be used to complete your registration. The application requires that students have Java on their computer. For more information see the Help link in the Class Schedule Planner.

# AccessPlus

<https://accessplus.iastate.edu/>

AccessPlus is a secure and confidential campus information system that allows students to view a personalized menu from a campus or home workstation. A university ID plus a password are required to view personal information. AccessPlus is available to Iowa State University students and faculty/staff, day or night, seven days a week, from anywhere in the world. Always remember to log out of AccessPlus if using a public computer. The following is a partial list of services available on AccessPlus:

- Register for classes
- View or print a current term or future term class schedule
- View residence hall information
- Complete residence hall contract
- Choose dining plan

- Buy Dining Dollars
- Add value to CyCash
- Search for jobs on and off campus
- Sign up for direct deposit of payroll
- View payroll information
- Review, accept/decline, release financial aid
- Sign up for direct deposit of excess financial aid funds
- View, print, and pay university bill
- View or print grades
- Verify address and other personal information
- Update in-session or interim address
- Print unofficial transcript
- Order official transcript
- Print 1098T tuition summary statements for tax reports

# Schedule Changes

## Dropping and Adding Courses

Procedures for schedule changes vary based on the time period of the semester. The effective date of a schedule change is the date when the change is entered into the registration system.

### Schedule change periods are as follows:

**Period 1** ends the fifth day of classes in the fall and spring semesters. Schedule changes during period 1 are free and do not require adviser signature. Instructor or departmental approval may be required for adds or section changes for some courses during Period 1. Course drops during this period do not count toward a student's ISU drop limit and will not appear on a student's permanent record. Schedule changes during period 1 may be processed through AccessPlus or presenting a Schedule Change/Restriction Waiver form to the Registrar's Student Scheduling Office, 10 Enrollment Services Center.

**Period 2** ends the Friday of week 10 in the fall and spring semesters. During this period, schedule changes require signatures of adviser and instructor and are processed on a Schedule Change/Restriction Waiver form. Completed forms are processed in 10 Enrollment Services Center. A schedule change fee is assessed for adds, drops, and section changes during this period. Course drops after period 1 count toward a student's ISU drop limit and appear as an X on the permanent record. A section change does not require a drop.

Drops and other schedule changes that are judged to be beyond the student's control may be processed as administrative actions if approved as such by the college dean. There is no schedule change fee for administrative schedule changes. Administrative drops do not count toward a student's ISU drop limit or appear as an X on the permanent record. The effective date of an administrative action is the date approved by the college student services office and/or college dean of the student's college.

**Period 3** begins after Period 2. Schedule changes during this period are permitted only for extenuating circumstances, may require a written statement of support from the instructor and the student, and must be approved by the college student services office and/or dean of the student's college.

**Half-semester courses and partial term courses:** Specific deadlines for adding and dropping half-semester courses are published in the university calendar. Appropriate adjustments to add and drop deadlines are made for other partial term courses. To find out specific deadlines for partial term courses, go the ISU index under Schedule Changes, or contact the Registrar's Student Scheduling Office, 10 Enrollment Services Center, 294-2331.

## R-Credit Courses (required courses)

Processing a scheduling change for a required course is usually considered administrative. There is no fee for administrative schedule changes. Administrative drops do not count toward a student's ISU drop limit and do not appear as an X on the permanent record. To make a Period 3 R-credit drop administrative requires approval of the college dean.

Tuition adjustment for reduction of total credits is based on the effective date of the change. For more information on tuition adjustments, see the "Tuition and Fees" section of this *Schedule of Classes*.

## Drop Limit

Undergraduate students have a limited number of courses they may drop during their academic careers. (These are drops processed after the fifth day of classes each semester.) Students who enter Iowa State as freshmen are allowed to drop a maximum of five courses during their undergraduate career. Students entering at a level above freshman classification or in the College of Veterinary Medicine are allowed to drop a maximum of four courses. Courses dropped during a student's first semester do not count towards this limit. The summer semester does not count as a first semester for this purpose. Students enrolling at Iowa State after receiving a bachelor's degree will be allowed two drops.

Exceptions may be made for courses that are requested to be dropped for reasons beyond the student's control. These exceptions are granted only by the college student services office and/or dean.

Each semester students Grade Report on AccessPlus indicates the number of drops you have left. Students are responsible for not exceeding your limit. If they attempt to drop a course beyond the limit without special permission from their college dean, the course will remain on their schedule and they will receive a grade at the end of the semester.

## Validating Enrollment

To validate their enrollment in each course at the beginning of the semester, students must attend the first or second meeting (first meeting if the class meets only once a week). Students who add a course after the term begins must attend the next class meeting. The instructor has the option to offer a registered place in the course to another student when a registered student fails to attend and has not obtained prior approval of the instructor. Students who do not validate their enrollment must drop the course or they will receive an F grade.

# Summer 2013 Fee Schedule

**Tuition and fees are subject to change without notice.** Enrollment is not complete until fees are paid. Tuition is charged at the per credit rate shown below. For more information, go to the ISU index under Fees.

## Tuition & Fees Schedule Per Semester

*In effect for Summer 2012. Subject to change without notice.*

Full Time Rates	Resident	Nonresident
Undergraduate (12 or more credits)	\$3,651.50	\$9,707.50
Agricultural Systems Technology & Industrial Technology, Junior & Senior	\$4,354.50	\$10,407.50
Architecture, undergraduate	\$3,851.50	\$9,907.50
Business Juniors and Seniors (excludes Pre-Business)	\$4,492.50	\$10,529.50
Engineering Juniors and Seniors	\$4,842.50	\$10,833.50
Graduate (9 or more credits)	\$4,182.50	\$10,152.50
Architecture, Graduate	\$4,382.50	\$10,352.50
Engineering Graduate:	\$4,852.50	\$10,842.50
Seed Technology & Business	\$5,371.50	\$11,341.50
Veterinary Medicine (12+ credits)	\$9,579.50	\$21,022.50

*For students enrolled for less than a full course load and for the most current and complete information, see the Fee Schedule Per Credit list at <http://www.registrar.iastate.edu/fees/>*

### Additional information:

**Audits and zero credit courses:** assessed according to contact hours; maximum charge for zero credit courses is three credit hours

**Continuous registration fee for graduate students:** \$70.

**Partial credits (.5):** assessed on the next larger whole number of credits, e.g., 6.5 credits is assessed as 7 credits.

**Summer session:** based on per credit as indicated in the fee schedule.

**Tuition assessment for study abroad credits:** up to a maximum of 12 credits, is above and beyond tuition for other courses taken during the same term.

## Fee Policies and Descriptions: 2012-2013

- **Developmental courses** are assessed additional fees above and beyond tuition for other courses taken during the same term. Fee subject to change without notice.
  - Math 10 - \$480
  - Chem 50 - \$350
  - Engl 99L - \$240
  - Engl 99R - \$160
  - Engl 995 - \$480
  - Frnch 97, Ger 97 and Span 97 - \$294
- **Distance education courses** are assessed at the resident rate and the 2 credit tuition minimum does not apply, with the exception of graduate level research courses.

- **Interim** (partial-semester, between-terms), **audit** (zero-credit), and **in absentia** (research, away from campus study) courses are assessed fees as listed in the current fee schedule.
- **One-half credits** are assessed at the next larger whole number; e.g. 3 1/2 credits are assessed at the 4-credit rate.
- **R-credit** (Required credit) coursework is assessed minimum tuition and fees equal to the 2 credit rate when it is the only course in which a student is registered. No tuition and fees will be assessed to a R-credit course when a student is enrolled in other credits in the same term or if the R-credit course is a co-op, internship or other practical experience.
- **Workshop fee** for one-credit workshops, with no other course enrollments, is \$278 for undergraduate students and \$431 for graduate students.
- **Zero credit course** is assessed based on contact hours with a maximum assessment of 3 credits.

# Tuition and Fees

*Tuition and fees are subject to change without notice.*

## Payment of Fees

The Accounts Receivable Office bills students for tuition, room, meal plan, and various other university charges. A statement of new charges will be available the first of each month on their AccessPlus account. Students will receive an e-mail message at their Iowa State e-mail address telling them that their bill is available on AccessPlus. It is their responsibility to ensure that the university has a correct e-mail address and to regularly check their Iowa State e-mail account. If they are unable to use AccessPlus to view their bill, they should contact the Accounts Receivable Office to learn the amount of their account balance due. Failure to view a billing statement will not exempt them from late penalties or from having a hold placed on their registration. Payments for summer semester are due May 20. Payments for spring semester are due January 20. Payments for fall semester are due August 20.

Students may pay their university bill (u-bill) electronically on AccessPlus, by dropping off a check (Include Name & ID #) in the drop box behind the Student Answer Center - Ground Floor - Beardshear Hall or in the south door of 1220 Beardshear Hall, or by mailing a check (Include Name & ID #) to the Treasurer's Office 1220 Beardshear Hall - Ames, IA 50011-2044. Cash Payments are not recommended. If you have cash, you may purchase a cashier's check made payable to Iowa State University (fee waived) at the University branch of US Bank 2546 Lincoln Way and then mail or drop off your payment. Payments must be received by the due date to avoid penalties. If you have questions regarding your U-Bill you can access your U-Bill on AccessPlus on computers conveniently located behind the Student Answer Center or contact the Receivables Office - 0880 Beardshear Hall - 515-294-7388.

## Cancelling Registration

A cancellation is processed when a student notifies the Office of the Registrar, prior to the day class work begins, of their decision not to attend classes for the current semester. All courses are removed and no tuition and fees are assessed. To cancel registration and avoid tuition penalty assessment, notify the Office of the Registrar by 4:00p.m. Friday, May 17; or drop all of your classes through AccessPlus by 10 p.m., Sunday, May 19.

You may cancel your registration by contacting the Office of the Registrar at 515-294-1889 or go to the ISU index from [www.iastate.edu](http://www.iastate.edu) under Cancelling Registration. You should make a record of the name of the person taking the call, as well as the time and date called.

## Withdrawing Registration

Beginning the first day of class (Monday, May 20), students who decide not to continue attending classes must process a withdrawal form.

Students considering a withdrawal from the university should immediately consult their academic adviser to discuss reasons for the withdrawal and alternatives. Should the student still wish to withdraw, the "Request for Withdrawal" form is initiated and submitted to the student's college for approval. If approved, the student's college will forward the withdrawal form to the Office of the Registrar. The student is then withdrawn from all courses based upon the withdrawal date on the form and tuition and fees are adjusted as appropriate according to established policies approved by the Board of Regents, State of Iowa. For further information go to the ISU index under Tuition and Fees.

If a withdrawal is requested during add/drop Period 3, the request may be denied if it is determined that academic performance prior to withdrawal is unsatisfactory. If the withdrawal is approved during Period 3 for a student on academic probation, the student will not be permitted to enroll the following term, except under extenuating circumstances. When a student withdraws, the attempted courses are not recorded on the permanent record and are not counted toward the student's drop limit; however, partial term courses completed prior to withdrawal will be included on a student's permanent record.

If the procedures for withdrawing from the university are not followed, instructors will assign whatever grades or marks they consider appropriate. Since these grades may be F's, students are warned that failure to follow the prescribed withdrawal procedures may adversely affect a later application for reentry or transfer to another institution. For more information on withdrawal policies, refer to the *Iowa State University Undergraduate and Graduate Courses and Programs* catalog at [www.catalog.iastate.edu](http://www.catalog.iastate.edu).

## Tuition Adjustment Schedule

*This tuition adjustment schedule is subject to change.*

Tuition adjustments for withdrawals of registration are based upon the following table for Summer 2013:

Withdrawal Date:	Summer Session I	Summer Session II	Student Pays
May 22		June 19	10%
May 24		June 21	25%
May 29		June 26	50%
May 31		June 28	75%
After May 31		After June 28	100%

The Tuition Adjustment Schedule will be pro-rated when courses shorter than a standard semester (79 days) are involved. See the Tuition Adjustment Schedule on the web for the most common session deadlines. Contact the Tuition and Fees area of the Office of the Registrar at 515-294-1883 or [registrar@iastate.edu](mailto:registrar@iastate.edu) for questions or deadlines for courses offered during sessions that are not specifically listed on the Tuition Adjustment Schedule.

The tuition adjustment schedule for a schedule change is based on the effective date of the change. Fees are assessed based on the student's total credit hours as of the set fee assessment date. During the summer term the set fee date will depend upon the length of the individual course in which the student is enrolled. Students who drop below full-time before the set fee assessment date will receive a credit adjustment of 100%, with no adjustment after the term. Students who add courses at any time during the semester will be assessed tuition and fees if applicable according to the fee schedule. Contact the Tuition and Fees area of the Office of the Registrar for deadline related to specific courses.

## Tuition Adjustment for Workshops and Short Courses

Students who drop one- or two-week workshops or short courses on or before the first class meeting receive a 100% tuition adjustment for the course. No tuition adjustment will be made after the first day of classes. Students who drop three-week courses will also receive a 100% adjustment if you drop on or before the first day of classes, but will also receive a 90% adjustment if they drop on the second day of classes and no adjustment after the second day of classes.

## Appealing Tuition Assessments

Students may appeal a tuition and fees assessment for withdrawal by obtaining a "Procedures for Appealing Assessed Tuition" form from the fees section in the Office of the Registrar, 0460 Beardshear. The Office of the Registrar will review appeals for possible tuition and fees adjustment for the semester in question only after the written appeal and appropriate support documentation are received from the student. Determinations will be made by the Office of the Registrar based on extenuating circumstances beyond the control of the student. The results will be sent to the student in writing. Students may appeal the decision of the Office of the Registrar by writing an appeal letter to the Tuition Appeals Review Committee. This letter should be submitted to the Office of the Registrar within 10 calendar days after receiving the original decision. A final appeal of the Tuition Appeals Review Committee decision can be made by submitting a request in writing to the Office of the Provost.

## Past Due Accounts

Students having past due receivable charges may be dropped from enrollment for fall if these past due charges are not paid by the Friday before the first day of classes. A statement indicating past due charges will be shown on the June 1 billing statement.

## GLOSSARY OF FEES

### Activity, Services and Building Fee

The activity, services and building fee is a mandatory fee that supports a variety of activities and services for all full time students. It is not based on whether or not a student uses an individual activity or service. This fee provides several benefits such as student admission rates to concerts and athletic events and unlimited use of CyRide. In addition, the fee provides support for campus recreation facilities, the Memorial Union, and campus organizations and services as allocated by the Government of the Student Body. Full-time students will be charged \$317.80 each fall and spring semester, and all students will be charged \$159.50 for the summer semester.

Exemptions are granted for students exclusively registered for the following: distance education courses (courses with sections beginning with an X); continuous registration courses, or students enrolled under the Postsecondary Enrollment Options Act. Students in exemption categories named above may elect to pay this fee and will be assessed based upon their enrollment status. For students who withdraw or change to an exempt status, the tuition adjustment schedule will be used for the activity fee.

### Application Fee

A nonrefundable application fee must accompany the application for admission. The application fee for domestic students (both graduate and undergraduate) is \$40; the international application fee for undergraduates is \$50 and for graduate students is \$90.

### Technology Fee

All students will be charged a computer technology fee each semester. Full-time graduate and undergraduate students enrolled in the College of Engineering (including Systems Engineering) or students majoring in Agricultural Systems Technology or Industrial Technology are charged \$223 per semester. Full-time graduate and undergraduate students majoring in Computer Science, or Pre-Computer Science are charged \$223. Full-time undergraduate students enrolled in the College of Business except students in Pre-Business are charged \$135 per semester, while full-time graduate students are charge \$112 per semester. All other full-time undergraduate students will be charged the standard computer fee of \$115 per semester. Fulltime graduate students will be assessed \$92. Engineering and Computer Science graduate students with graduate assistant appointments will be assessed \$111.50. Business graduate students on assistantship will be assessed \$56. All other majors, regardless of the number of credits in and the fraction of time they are on appointment will be assessed \$46.

Students enrolled less than full-time are assessed prorated technology fees based upon the number of credits in which they are enrolled. Students enrolled exclusively under the Postsecondary Enrollment Options Act; or students enrolled exclusively in courses for which no tuition is assessed are not assessed a computer fee. Technology fee adjustments will be made according to the schedule for a reduction in credits. Refunds for credit reductions below a full time load are 100 percent through the second week for a full semester course, ?, with no refunds after the second week. The tuition adjustment schedule also applies to technology fees for students who withdraw. Students who change their major will be charged the applicable technology fee for the major into which they transfer if the change occurs before the end of the second week. If the change occurs after the second week, then no change in the technology fee assessment will occur. Students who are double majors will be assessed the technology fee rate for the major having the higher rate.

### Graduation Fee

The \$60.00 graduation fee is assessed to students when they submit an application for graduation. The fee partially covers the cost of such items as diplomas, diploma covers, data processing, personnel, the commencement program booklet, postage and mailing costs of diplomas not distributed at commencement, and the implementation of a new degree audit system. This fee is non-refundable

### Health Facility Fee

All students are assessed an \$4 health facility fee for Summer 2012, except for students exclusively registered for the following: distance education courses; (courses with sections beginning with an X); courses for which no tuition is assessed; continuous registration status courses, graduate students enrolled in GR ST 600, 601, Psych 597, 697; or high school students enrolled under the Postsecondary Enrollment Options Act. Note: The health facility fee is mandatory for all students enrolled in the Students and Scholars Health Insurance Plan including all international students on an assistantship. For students who withdraw or change to an exempt status as defined above, the tuition adjustment schedule will also be used for the health facility fee.

### Health Fee (Mandatory)

All students are assessed an \$49 Health Fee, except for students enrolled for four credits or less or students exclusively registered for the following: distance education courses (courses with section beginning with an X); courses for which no tuition is assessed; continuous registration status courses; weekend MBA courses; Lakeside Lab or geology field camp courses; graduate students enrolled in GR ST 600, 601, Psych 597, 697, or high school students enrolled under the PostSecondary Enrollment Options Act (Chapter 261C).

Students who withdraw or change to an exempt status (as defined above) will receive a credit adjustment of 100% through the set date with no adjustment after that time. No adjustment can be made if a student has used the services of the Thielen Student Health Center prior to withdrawing from or changing to an exempt status at the university. Students who add courses at any time during the term will be assessed the Health Fee according to the guidelines stated above.

Students exempt from the mandatory Health Fee may use the services of the Thielen Student Health Center on a fee for service basis or may elect to pay the \$49 Health Fee and \$4 Health Facility Fee, which allows participants to receive services at the Thielen Student Health Center for the same rate as students who pay the mandatory health fee. Spouses/domestic partners of students who wish to use the Thielen Student Health Center must pay the \$49 Health Fee and \$4 Health Facility Fee.

Contact the Thielen Student Health Center at 515-294-7523 for more information on adding the Health Fee.

### New Student Programs/Matriculation Fee

A \$195 fee is assessed to all new degree-seeking students prior to admission. This fee does not apply to nondegree seeking students, veterinary medicine students, graduate students, or students enrolled exclusively in distance education courses.

### Admissions Acceptance Fee

A nonrefundable application fee must accompany the application for admission. The application fee is \$40 for domestic undergraduate and graduate applicants, \$50 for international undergraduate applicants (\$57 for the online application), and \$90 for international graduate applicants.

### Special Course Fees

Some courses have expenses above the cost of tuition that enhance the instruction. These fees may cover the cost of field trips, use of equipment, materials or supplies, or professional support. Applicable special course fees are listed with the specific course in the Schedule of Classes. For more information, go to the ISU index under Schedule of Classes. Special course fees also appear in each student's schedule detail available on AccessPlus.

### Delivery Fees

Some distance education courses have expenses above the cost of tuition to support the added cost of distance education. Applicable delivery fees are listed with the specific course in the Schedule of Classes. Delivery fees also appear on each student's schedule under detail on AccessPlus.

# Graduation

Iowa State University confers degrees three times a year in December, May and at the end of the Summer Session.

ISU does not hold a summer commencement ceremony. Summer graduates have the option for attending either the spring or fall university commencement ceremony.

### Undergraduate Students

Applications are available from the adviser, college student services office, the Registrar's Graduation Office, 210 Enrollment Services Center, or go to the ISU index under Graduation and Commencement. The applications are due in 210 Enrollment Services Center by Friday, March 15. Students will be assessed a \$60 nonrefundable graduation fee the tenth day of classes. (This fee is subject to change.)

Students will be notified of their graduation status no later than midterm. Graduation mailings will be sent to the in-session address. Financial obligations owed to the university and loan exit interviews must be completed, as required, before graduation.

To update your address, please go to AccessPlus.

Final grade checks will be made approximately two weeks after the end of the semester and diplomas will be mailed to all successful degree candidates.

For more information, contact the Registrar's Graduation Office, 210 Enrollment Services Center, (515)294-9372 or e-mail: graduation@iastate.edu.

### Teacher Licensure

Students graduating with a teaching emphasis may obtain application forms for the Iowa Teachers License in the Human Sciences Student Services Office, 0131 MacKay. Completed forms and licensure fee should be returned to Human Sciences Student Services by the end of the first week of the semester in which the student plans to graduate.

### Graduate Students

Specific deadlines have been set by the Graduate College for all graduate students. Failure to meet these deadlines may result in the removal of the student's name from the graduation list for Summer 2013.

- An "Application for Graduation" (diploma slip) should be obtained from the students department and filed in the Graduate College by Friday, June 7.
- Last day for graduate students to cancel graduation, by June 28. All graduate students who haven't cancelled by this date will be assessed a nonrefundable graduation fee.
- A Request for "Final Oral Examination" form should be obtained from the students department and submitted to the Graduate College at least three weeks before the final oral examination.
- Final oral examination must be taken by Friday, July 19.
- Final signed thesis/dissertation form must be submitted to the Thesis Office, 1137 Pearson, by Tuesday, July 23. Last date for students with a thesis/dissertation (ETD) to upload final thesis to ProQuest/UMI for thesis approval must be submitted by Thursday, July 25.
- Signatures must be obtained on the "Graduate Student Approval Slip" by Tuesday July 23. This form will be sent to their major professor or department when their "Request for Final Examination" is approved. All incompletes from past terms and conditions on the final examination must be removed by this date.
- Financial obligations owed to the university and loan exit interviews must be completed, as required, before graduation.

Final grade checks will be made approximately two weeks after the end of the semester and diplomas will be mailed to all successful degree candidates.

For more information, contact the Graduate College, 1137 Pearson, (515)294-4531.



# Student Records

## Degree Audits

The degree audit lists the courses needed to fulfill graduation requirements for a specific degree program. The purpose of the degree audit is to provide assistance to the student and adviser in choosing courses during the registration process, and to verify the student's progress toward graduation.

If you are considering changing their major, you may request an alternative degree audit for the major in which you have an interest. Contact the college student services office (of the major that you are interested in) to request the audit.

To request a replacement degree audit, contact the student's college student services office.

## Full-Time/Half-Time Student Status

Full-time status is defined as follows:

Undergraduates: 12 credits for fall or spring semester;  
Graduates: 9 credits for fall or spring semester.

Half-time status is defined as follows:

Undergraduates: 6 credits for fall or spring semester;  
Graduates: 5 credits for fall or spring semester.

Summer status depends on the number of weeks a student is enrolled. Contact the Office of the Registrar, 515-294-1840 to verify status for a summer session. For more detail, please refer to the ISU index on the web under Certifications.

## Transcripts

An official transcript may be ordered through AccessPlus; the Office of the Registrar, 214 Enrollment Services Center, 515-294-1840; or by faxing a downloaded form available from the ISU index under Transcripts, How to Order. Transcripts will not be issued if the student has any transcript holds for financial delinquency. Students, attending ISU after 1996, may also view their unofficial transcript using the AccessPlus system.

## Grade Reports

Students can view their grades on AccessPlus by logging in and selecting "Grade Report" from the menu. Grades and marks that may appear on their grade report include the following:

Grade	Quality Points	Grade	Quality Points
A	4.00	C	2.00
A-	3.67	C-	1.67
B+	3.33	D+	1.33
B	3.00	D	1.00
B-	2.67	D-	0.67
C+	2.33	F	0.00

- P = Passing (under the Pass-Not Pass system)  
 NP = Non-passing (under the Pass-Not Pass system)  
 S = Satisfactory  
 T = Satisfactory performance (equivalent to a grade of C or better) in a special exam for academic credit  
 X = Course dropped by the student after the first week of the semester  
 N = No report submitted by the instructor  
 I = Incomplete

For more complete information about Iowa State University's grading system, please refer to the Academic Life section of the *Iowa State University Undergraduate and Graduate Courses and Programs* catalog.

## Repeated Courses

If you repeat a course, the permanent record will show the grade on the initial attempt as well as grades received on subsequent attempts. However, only the most recent grade will be used in computing the cumulative grade-point average rather than the previous grade(s). Undergraduate and special students may only repeat up to a limit of 15 semester credits.

Approval to repeat a course in which the course number or number of credits has changed must be noted on a Designation of Repeated Course form. This form can be obtained from departmental offices and must be signed by the students advisor and the head of the department offering the course. This form is also used if the course number or number of credits has changed from a previous catalog or if the course is being repeated to reduce a transfer deficiency. Process this form in the Office of the Registrar, 214 Enrollment Services Center.

For more information, please refer to the Academic Life section of the *Iowa State University Undergraduate and Graduate Courses and Programs* catalog.

## Veterans Educational Assistance

Students planning to receive Veterans Educational Assistance must provide enrollment information to the V. A. clerks in the Office of the Registrar, 214 Enrollment Services Center, when registration is complete or veterans enrollment certification will be canceled. Veterans must also notify the V.A. clerks when changing credit hours or withdrawing from school. Credit hour requirements are:

Undergraduate		Graduate
12 cr.	Full allowance	9 cr.
9-11.5 cr.	3/4 allowance	7-8.5 cr.
6-8.5 cr.	1/2 allowance	5-6.5 cr.
1-5.5 cr.	Proration of fee over period enrolled	1-4.5 cr.

Audited courses do not apply toward V. A. benefits.

Students receiving Veterans Educational Assistance are required by the V. A. to attend class regularly to maintain their V. A. eligibility. Instructors are obligated to notify the Office of the Registrar if a student receiving V. A. benefits is not attending class. Notification is then forwarded to the Veterans Administration.

## Information Disclosure for Students

Iowa State University is required by law to make available to enrolled students, prospective students, and their parents certain information about the University. The information disclosure policy is available through the ISU index under Information Disclosure for Students and Employees. Students with no electronic access can obtain the information from the Office of the Registrar, 214 Enrollment Services Center, 515-294-1840 or from the Office of Admissions, 100 Enrollment Services Center, 515-294-5836. Iowa State will provide a paper copy of the information upon request.

## Policy on Student Names

Board of Regents, State of Iowa universities have a common policy regarding student names and name changes. The name on the student record should be the student's complete and legal name. In evaluating and processing all name change requests, the university reserves the right to require adequate and appropriate documentation as warranted.

## Release of Student Records

The Iowa State University policy concerning the release of student records complies with the Family Educational Rights and Privacy Act of 1974, as amended. The University has designated the following as public information which is available to anyone upon inquiry unless they request that information not be released: name; in-session address and telephone number; campus e-mail address; interim address; home city, county, state, or country; date and place of birth; curriculum; college; year-in-school; enrollment status; dates of attendance at Iowa State; full or part-time status; expected date of graduation; adviser name; awards and academic

honors; Iowa State degree(s) and date(s) awarded; previous educational institutions attended, dates of attendance, and degrees received; participation in officially recognized university activities and sports; and weight and height of members of athletic teams.

To restrict the release of public information, notify the Office of the Registrar, 214 Enrollment Services Center, and complete the appropriate form no later than the end of the first week of classes.

With the exception of public information, all student records are considered to be confidential and release is restricted according to University policy. A copy of the release policy can be found in the Office of the Registrar or go to the ISU index under Confidential Information Policies. The office also maintains a directory of persons who normally have access to each type of student record.

## Changing an Address on AccessPlus

AccessPlus is Iowa State University's electronic key to personal information via [www.accessplus.iastate.edu](http://www.accessplus.iastate.edu).

Information on AccessPlus is kept confidential. A social security number or university ID number and password are required to view personal information through AccessPlus. To change an address on AccessPlus, do the following:

1. Go to ISU's home page at [www.iastate.edu](http://www.iastate.edu)
2. Choose Students
3. Choose AccessPlus
4. After logging in using a social security number or university ID and password, choose Address Change.
5. Read the announcements on the main AccessPlus page, then select the Students tab and choose Address Change.

Follow the instructions on the screens for In-Session and Interim address changes.

Changes to Residence Hall and payroll records must be handled directly with those offices.

## ISU ALERT

The ISU Alert system (see <http://www.isualert.iastate.edu/>) will quickly alert Iowa State University students, faculty and staff of potentially dangerous situations on the Iowa State University campus. For details on how to review and update your ISU Alert information see <http://isualert.iastate.edu/update.shtml>

## Third Party Access

Third Party Access is an option on AccessPlus that allows students to share access to selected personal information with a trusted third party. For example, Third Party Access allows a student to set up a special account for a parent or family member to view grades and/or pay the university bill. More information on creating third party accounts can be found under Third Party Access on your AccessPlus account.

# Services for Students

## Campus Parking

Vehicles operated on campus must be registered at the Parking System Office in 27 Armory. For more information go to the ISU index under Parking Division, DPS.

Students who are not Ames residents may purchase permits to park in lot 29 or 29B, if space is available. If space is not available, they can utilize the free parking and free shuttle bus at the Ann Campbell Transit Hub. These parking lots are just south of Stephens Auditorium. Students living in Ames are urged to take the Cy-Ride bus from their homes to campus.

## Child Care

Child Care Administration, a unit of Human Resource Services, supports Iowa State University families by linking them with programs and services that can help meet their child care needs. The university child care coordinator is available to assist families in accessing services available both on the campus and in the community. For more information go to the ISU index under Child Care.

For more information about child care options, contact the university child care coordinator at 515-294-8827.

Child care programs located on campus include:

- Center for Child Care Resources: Assistance in locating campus and community child care services, 100 University Village, Suite 1010, 515-294-8833 or 1-800-437-8599
- University Community Childcare at 100 University Village; 515-294-9838
- The Comfort Zone: Daycare for kids who don't feel so good, 100 University Village, 515-294-3333.
- Flex-Care: Part time care for children of ISU students, 100 University Village, 515-294-9838.
- University Child Care Center at Veterinary Medicine, 1700 Christensen Drive, 515-294-2273.
- ISU Child Development Laboratory School, 0351 Palmer Building, 515-294-3040.

## Student Disability Resources

Student Disability Resources coordinates the support services that students may need in order to reach their fullest academic potential. As part of the Dean of Students Office, Student Disability Resources staff serve as a resource within the university community concerning students who have a documented disability. SDR provides information, support, counseling, education, referral, and awareness to students, faculty, staff, the Ames community, and the state of Iowa. For more information, call 515-294-7220, TTY 515-294-6635, e-mail: [disabilityresources@iastate.edu](mailto:disabilityresources@iastate.edu), or online go to the ISU index under Disability Resources, Students.

## Identification Card (ISUCard)

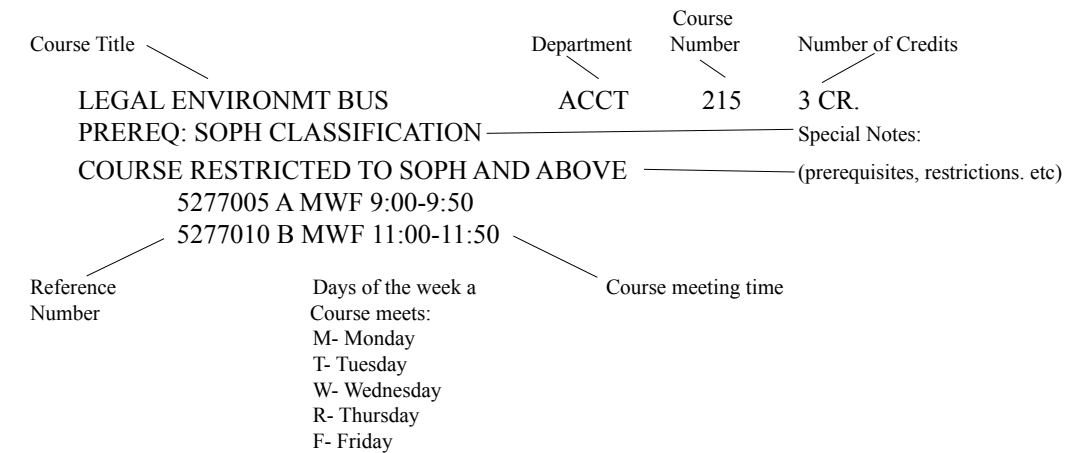
The Iowa State University student identification card (ISUCard) will be made available to students at the time of their first registration. This is a permanent card to be used while attending Iowa State. Loss of their ISUCard should be reported immediately to the ISUCard Office, 0530 Beardshear, where the lost card will be invalidated. There will be a charge for each replacement of an ISUCard. Disciplinary sanctions may be imposed for improper use of the ISUCard or attempts to obtain, by fraudulent means, any form of identification.

## Spouses/Domestic Partners Cards

The Spouse Activity card is available at no charge for spouses, domestic partners, and children of students. These cards provide reduced rates at athletic or C.Y. Stephens events but cannot be used for services such as the Lied Recreation Center, CyCash, or Parks Library. To obtain the card, students must bring proof of marriage or relationship (marriage license, joint insurance cards, joint tax return, etc.) to the Student Answer Center, ground floor Beardshear Hall. The Spouse Activity card is valid for one academic year (fall through summer).

For services such as the Lied Recreation Center, CyCash, or Parks Library, students may apply for the Spouse/Domestic Partner card. Both the student and spouse/domestic partner must bring a photo ID and proof of marriage or relationship (marriage certificate, joint insurance cards or joint tax returns) to 0530 Beardshear. The cost is \$15 per card and the cards expire every year on June 30.

# Course Information



## Course Listing Information

The first line for each course includes the course title as it will appear on transcripts, department abbreviation, course number, and credits or range of credits for the course.

## Course Numbering System

Courses are numbered from 1 to 699, as follows:

- 1-99: Does not carry credit toward a bachelor's degree.
- 100-299: Primarily for freshmen and sophomores.
- 300-499: Primarily for juniors and seniors.
- 500-599: Primarily for graduate students, but open to qualified undergrads.
- 600-699: For graduate students only.

## Meeting Days and Times for Classes

Meeting days as well as class start and end times are listed in the course offerings section of this *Schedule of Classes*.

## Course Prerequisites

A prerequisite indicates the specific academic background or general academic maturity considered necessary for the student to be ready to undertake the course. Prerequisites are usually stated in terms of specific courses, but equivalent preparation is usually acceptable.

It is university policy that the instructor shall inform the students at the beginning of each course if students who have not met the prerequisite requirements must drop the course. Conversely, an instructor may waive the prerequisite for a course for which he or she is responsible. Thus, permission of the instructor is understood to be an alternate to the stated prerequisites in all courses.

Course prerequisites are listed in the Online Schedule of Classes as well as in the Courses and Programs section of this publication.

## Auditing Courses

To audit a course means to enroll in the course without receiving credit for the course. Audited courses count towards credit limit but not full-time status. The instructor of the course approves the audit request.

Students are assessed fees as though they are taking the course for credit, but the audited course does not count in determining full-time student status. However, an audited course does count towards the maximum allowable credits per semester. Audited courses do not apply toward V.A. benefits.

Graduate students: An audited course counts as one credit in the graduate student's allowable course load; however, fees will be assessed for the full number of credits for the course. See Index, Graduate College.

Changing status to audit: Changing a course from credit to audit requires dropping the course for credit and adding it as an audit on a schedule change request form. After day 5 of the semester, the drop will count toward the total allowable ISU drops. The drop appears on the student's permanent record and a drop fee will be assessed to the student's university bill.

Rights and privileges: Once enrolled in an audited course, auditors have the same rights and privileges as any student taking the course for credit. Their names appear on the class list with a notation that they are auditing the course. Audited courses do not appear on the student's permanent record except by special request from the student. A request form can be downloaded from the Office of the Registrar web site at [www.iastate.edu/~registrar/forms](http://www.iastate.edu/~registrar/forms). Undergraduate students need approval from the instructor as well as their adviser, and college; graduate students need approval from the instructor as well as their major professor and the Graduate College.

### Audit Deadlines

In addition to the deadlines provided below, note that instructors must approve all audits.

- Full semester courses:

Adding an audit–day 10 deadline:

–Through day 5 of classes: instructor approval required.

–Day 6-10: instructor, adviser approval required; schedule change fee applies.

–After day 10: only with extenuating circumstances, instructor, adviser, college approval required; schedule change fee applies.

Changing status, from credit to audit–day 10 deadline:

–Through day 5 of classes: instructor approval required.

–Day 6-10: instructor, adviser, college approval required; schedule change fee applies.

–After day 10: only with extenuating circumstances, instructor, adviser, college approval required; schedule change fee applies.

Changing status from audit to credit–day 5 deadline:

–Through day 5 of classes: instructor approval required.

–After day 5: instructor, adviser, college approval required; schedule change fee applies.

- Partial semester or summer courses:

Deadlines are determined based on the length of the course.

For deadlines concerning partial term or summer courses, contact the Student Scheduling Office, 515-294-2331.

## Canceled Courses

Some course sections may be canceled due to low enrollments or departmental staffing situations. If a student enrolls in a section that is subsequently canceled, they will be notified by the Registrar's Student Scheduling Office and/or by the department.

## Class Attendance

Students are expected to attend class meetings as scheduled.

Each instructor sets his or her policy with respect to class attendance, and excuses for absence from class are handled between the student and instructor. The instructor is expected to announce her or his policy at the beginning of the course. In order to attend a given class, a student must be registered for that class. Exceptions to this policy are at the discretion of the instructor.

## Courses Requiring Permission

Some sections are designated in the *Schedule of Classes* as permission required. Students may not use AccessPlus to register for these sections. To add a permission required section, obtain the designated departmental signature on the Schedule Change/Restriction Waiver form, and process the form in the Registrar's Student Scheduling Office, 10 Enrollment Services Centerl.

## Course Descriptions

Course descriptions can be found in the *Iowa State University Undergraduate and Graduate Courses and Programs* catalog. Copies of the catalog may be purchased in campus area bookstores. The information is also available through the ISU index under catalog.

## Credit Involving a Paid Activity

Students may obtain credit for an activity, either on or off campus, for which they are also paid, provided the activity is academically relevant. In order for an activity to be defined as academically relevant, prior arrangements must be made with a faculty member in an appropriate department and must include agreement on (1) the academic objectives which the activity is expected to achieve and (2) the procedure by which the student's learning will be assessed. This policy does not apply to registrations for R credit.

## Credits Limits

For fall and spring semesters, the credit limit is 18 credits for undergraduates and 15 credits for graduate students. For summer session, the limits are 12 credits for undergraduates and 10 credits for graduate students. Requests to add credits beyond a student's credit limit will be denied. Generally, a student must drop credits before adding another course.

Students may request a change in their credit limit by contacting their adviser. Advisers should notify the student's college student services office if the credit limit needs to be changed.

## Distance Education Course Information

All distance education course and program information is available under the ISU index under Distance Education. Information is added and updated frequently on the website.

## Experimental Courses

Experimental courses (course numbers ending in "X") are not included in the *Iowa State University Undergraduate and Graduate Courses and Programs* catalog. Course descriptions for experimental courses can be found through the ISU index under Experimental Course Descriptions.

## Late Registration

A late registration fee is charged beginning on the first day of classes. Registration after the fifth day of classes requires written permission from instructor(s), adviser/major professor, and approval from the college office authorized to sign on behalf of the Dean.

## Linked Courses

Linked courses are two-part courses (e.g., Astro 120 has a lecture section and a discussion section) where students must add both a lettered section such as A or B and a numbered section such as 1, 2, or 3, to complete the registration for this course. Students who do not register for both parts of the course will be dropped from the course due to incomplete registration.

## On-Campus Saturday and Evening Courses

Many on-campus evening and Saturday classes are included in the *Online Schedule of Classes* <http://classes.iastate.edu/>. To search for evening classes from the Online Schedule of Classes, enter pm in the *Section* field. All courses meeting at 5 p.m. or later will be displayed. Remember that additional offerings may be listed so students should check the meeting times carefully. For questions regarding registration and/or fees, call (515)294-1889.

## Partial-Semester Courses

Some courses are offered on a partial-semester basis. Refer to the course listings section for meeting times.

## Pass-Not Pass

Students must contact their adviser/major professor to determine which courses they may take Pass-Not Pass. To take a course Pass-Not Pass, first add the course through the web registration system on a graded basis, then to declare the course as Pass-Not Pass, the student must obtain the signature of their adviser/major professor located in the Pass-Not Pass

section of the Schedule Change/Restriction Waiver form. Process the form in the Registrar's Student Scheduling Office, 10 Enrollment Services Centerl. Check the university calendar for deadlines pertaining to Pass-Not Pass changes. For more information, refer to the *Iowa State University Undergraduate and Graduate Courses and Programs* catalog.

## Registration Holds

If a student has a registration hold, they will not have access to register until the hold has been released by the initiating office. Go to *AccessPlus*, *Current Student Information* to view any registration holds.

## Restricted Sections of Courses

Some course sections are restricted to students who meet specific criteria (major, college, year-in-school, etc.). If a department agrees to waive the restriction due to extenuating circumstances, students must obtain the designated departmental signature on a Schedule Change/Restriction Waiver form and process the form in the Registrar's Student Scheduling Office, 10 Enrollment Services Centerl.

## Room Assignments

Beginning Monday, April 22, students may find room assignments by viewing their schedule on AccessPlus.

## Time Conflicts

University policy states that students may not enroll in courses with time conflicts without approval from the involved instructors and/or departments. The web registration system will not prevent students from scheduling time conflicts, therefore, it is the student's responsibility to check their schedule for time conflicts.

## Validation of Enrollment

To validate a student's enrollment in each course at the beginning of the semester, they must attend the first or second meeting (first meeting if the class meets only once a week). If they add a course after the term begins, they must attend the next class meeting. The instructor has the option to offer a registered place in the course to another student if they fail to validate their enrollment or obtain prior approval of the instructor. *Students will not automatically be dropped from the course if they fail to validate their enrollment. A student must process the drop themselves or they will receive an F grade.*

## Videotaping/Audiotaping Classes

Courses may be videotaped for various reasons, including distance learning. Instructors may audiotape courses for personal reasons. Audiotapes may be made to accommodate a student's disability. Students shall not record and/or reproduce such audiotapes without the instructor's permission.

# Iowa Lakeside Laboratory

The Iowa Lakeside Laboratory is a field station located on approximately 140 acres of restored prairie, wetland, and gallery forest on the shore of West Okoboji Lake in northwest Iowa. The Laboratory was established in 1909 for the conservation and study of the rich flora and fauna of northwest Iowa—especially the Iowa Great Lakes region with its numerous lakes, wetlands, and prairies. It is run by the Iowa Board of Regents.

Each summer the Laboratory provides undergraduate and graduate students an exceptional opportunity to take field-oriented courses in the natural sciences (archaeology, ecology, evolution, geology, taxonomy). Specified courses for environmental science and biology teachers are also offered each summer. Most courses have individual or group field projects as well as formal lectures and discussions. Because all Lakeside courses are total immersion and meet all day, five days a week, students can take only one course at a time. Courses run for two to four weeks, except those for teachers and the Natural History Workshops which run one or two weeks. Class size for most courses is limited to ten students.

Scholarships are available to both undergraduates and graduate students. Scholarships only cover Iowa Lakeside Laboratory room and board.

Additional information about these courses as well as scholarship information and registration forms can be obtained from the Lakeside Lab website at [www.continuetolearn.uiowa.edu/lakesidelab](http://www.continuetolearn.uiowa.edu/lakesidelab) or by contacting the Iowa Lakeside Laboratory Administrative Office, 250 Continuing Education Facility, The University of Iowa, Iowa City, IA 52242-0907. Phone: (319) 353-2806 or (888) IOWAEDU (469-2338); Fax: (319) 335-2740; Email: [iowalakesidelab@www.continuetolearn.uiowa.edu](mailto:iowalakesidelab@www.continuetolearn.uiowa.edu).

Early registration is advisable. Because enrollment in Lakeside courses is limited, students are advised to submit applications before May 1. Students should apply for housing at the same time as they register.

## Natural History Workshops at Lakeside

During the 2013 summer season, Lakeside will offer one section of the Natural History Workshop. This course has no prerequisites and is designed to serve the needs of teachers, naturalists, conservationists, and anyone else with an interest in Iowa's natural history. The following section will be offered this summer:

Ia LL ??-Vertebrate Community Ecology (May 20-31)

Ia LL ??- Molecular Ecology (June 3-14)

Ia LL 293G-Prairies (June 17-28)

IA LL ?? Field Archaeology (June 24-July 5)

## Lakeside Lab Course Descriptions

The following courses will be offered at Iowa Lakeside Laboratory during summer 2013. Iowa State University course numbers are listed under the course title.

### Undergraduate Internship

**Ia LL 303I (NREM 303I)**

*Cr. 1-5. Prereq: Permission of instructor and sophomore standing. Placement with county conservation boards, camps, parks, etc., for experience as interpreters, rangers, and technicians.*

### Ecology

**Ia LL 312I (A Ecl 312I, EnSci 312I,)**

*Cr. 4. May 20-June 14. MTWRF 8-5.*

*Neil Bernstein, Mount Mercy University*

An introduction to the principles of ecology at the organismal, population, community, and ecosystem levels. The course integrates lectures and field studies to examine factors controlling the distribution and abundance of plants and animals in native ecosystems. General topics include climate, microclimates, soil, aquatic environments, responses of organisms to environment, life history, population growth and regulation, demography, species interactions, community composition and structure, landscape ecology, trophic structure and productivity, and biogeochemical cycles. Meets May 20 to June 14, 2013. Prerequisite: two semesters of introductory biology or consent of the instructor.

There is a strong emphasis on field ecology (what do ecologists do?), meaning that students will conduct many field research projects. These require collection, statistical analysis, and the interpretation of data in short reports. [In addition, students will write a scientific paper (full manuscript-style) for one of the research projects.]

Appropriate field clothes and supplies are needed (rain gear, warm clothing, hat, sturdy boots, sunscreen, wading shoes, and insect repellent). Ecology texts are available in the library, but if you wish to purchase one, a good choice is *Elements of Ecology* (7th edition) by Robert L. Smith and Thomas M. Smith. A required book (not available in the library or for purchase at ILL) is *Where the Wild Things Were: Life, Death, and Ecological Wreckage in a Land of Vanishing Predators* by William Stolzenburg (ISBN-13: 978-1596912991), available through internet booksellers. Purchase this before coming to ILL. Students should bring a field pack, calculator, a spiral notebook, and at least one flash drive. Optional items (suggested but not necessary) include a camera, field guides, binoculars, a water bottle, and hip or chest waders. Field trip fee: \$60.

## Plant Taxonomy

**Ia LL 367**

*Cr. 4. June 17-July 12 MTWRF 8-5.*

*William Norris, Western New Mexico University.*

Principles of classification and evolution of vascular plants; taxonomic tools and collection techniques; use of keys. Field and laboratory studies emphasizing identification of local flowering plants and recognition of major plant families. Meets June 17 to July 12, 2013. Prerequisite: two semesters of introductory biology or consent of the instructor.

Students who enroll in Plant Taxonomy at Lakeside will spend four weeks exploring the many habitats (wetland, prairie, forest) of Iowa's lakes region to study the diverse flora of this region (home to more than 800 vascular plant species). The majority of class time is spent in the field. Topics to be covered include principles of vascular plant classification; vegetative and reproductive morphology; recognition characteristics of 40 major plant families, use of dichotomous keys; and field collection methodology. Each student will prepare and submit a collection of 100 vascular plants as a course requirement. There will be a two-night field trip to northeast Iowa during the third week of the course. Students will be expected to bring camping equipment and to pay for one evening meal out-of-pocket in addition to the fees charged for this trip.

There are two required texts for this course: (1) *Flowering Plant Families* (1994, by Wendy Zomlefer, University of North Carolina Press, ISBN 0807844700); and (2) *Plant Identification Terminology: An Illustrated Glossary* (2001, James G. Harris and Melinda W. Harris, Spring Lake Publishing; ISBN 0964022168). Both books are readily available through Internet book dealers (<http://amazon.com>; <http://bn.com>). In addition, an OPTIONAL book which students will find very useful is (3) *Great Plains Flora Association. Flora of the Great Plains* (1991, University of Kansas Press; ISBN #070060295X). This book is currently available through major Internet book sellers (<http://amazon.com>; <http://bn.com>). All students MUST obtain a 10X hand-lens. This is available through Kooter's Geology Tools (<http://www.kooters.com>). Field trip fee: \$80.

## Prairie Ecology

**Ia LL 422I ((EnSci 422I)**

*Cr. 4. June 17-July 12 MTWRF 8-5.*

*Daryl D. Smith, University of Northern Iowa*

Analysis and interpretation of patterns and the underlying physical and biotic basis for both regional and local distributions of plants and animals of North American prairies via field observation and sampling and laboratory analysis. Meets June 17 to July 12, 2013. Prerequisite: two semesters of introductory biology or consent of the instructor.

Fieldwork will consist primarily of examination and investigation of various prairie communities in northwest Iowa and selected communities in western South Dakota and north-central Nebraska. Prairie communities will be sampled

for species composition, richness, and natural quality and analyzed using standard community-analysis techniques. There will also be a six-day field trip to the Badlands and Wind Cave National Parks in South Dakota and the Sandhills of Nebraska. There are two required textbooks: *An Illustrated Guide to Iowa Prairie Plants* by Paul Christiansen and Mark Muller (University of Iowa Press, 1999, ISBN 0877456615) and a compilation of "Readings in Prairie Ecology." The Christiansen and Muller book and the "Readings" will be available for purchase on the first day of class. Two sets of field clothes and waterproof field boots or extra shoes are recommended due to wet grass. A calculator, flashlight, sleeping bag and pad, rain gear, hat, and field boots are needed for the western field trip. Field trip fee: \$100.

## Archaeology

**Ia LL 427I (Anthr 422I)**

*Cr. 4. June 17-July 12 MTWRF 8-5.*

*John F. Doershuk, University of Iowa*

Nature of cultural and environmental evidence in archaeology and how they are used to model past human behavior and land use; emphasis on Iowa prehistory; basic reconnaissance surveying and excavation techniques. Meets June 17-July 12, 2013.

The 2013 Lakeside Laboratory archaeological field school will continue on-going research efforts at the Gillett Grove Oneota culture protohistoric village site (13CY2) in Clay County, Iowa. The Gillett Grove site was first recorded in 1926 by Charles R. Keyes. Keyes, one of the founding figures of Iowa Archaeology, recorded hundreds of important sites across the State of Iowa. When Keyes visited the Gillett Grove site he found archaeological materials spread across a 20 acre area, "2 miles west and a little south of Gillett Grove...on a promontory of land on the north bank of the Little Sioux...12 low [house] mounds visible...large circular embankment/enclosure about 100 yards in diameter...on the highest central portion of the site." Annual Lakeside Laboratory summer archaeological field schools have investigated portions of the site since 1995 recovering a large assemblage of diverse materials including arrow and spear points and other stone tools, decorated ceramic sherds, copper fragments, bison bones and other faunal remains, worked catlinite, glass trade beads, and a gun flint. Features related to semi-subterranean houses, hearths, and storage pits are preserved at 13CY2. Participants will be introduced to the basic methods of field archaeology including artifact identification, site mapping, excavation techniques, artifact processing, and beginning analytical methods. The field school will include lectures on Iowa Archaeology and the culture history sequence of western Iowa as well as day trips to the Sanford Museum in Cherokee, Iowa, the Dixon and Bastian Oneota sites, Jeffers Petroglyphs, and Pipestone National Monument. For more information on field school, visit <http://www.uiowa.edu/~osa/gcp/gillettgrove/index.html>.

Field trip fee: \$120..

There are two required textbooks: An Illustrated Guide to Iowa Prairie Plants by Paul Christiansen and Mark Muller (University of Iowa Press, 1999, ISBN 0877456615) and a compilation of "Readings in Prairie Ecology." The Christiansen and Muller book and the "Readings" will be available for purchase on the first day of class. Two sets of field clothes and waterproof field boots or extra shoes are recommended for early morning field trips. A calculator, small field notebook (5" x 7"), water bottle, mosquito repellent and sunscreen and/or hat are recommended. A flashlight, sleeping bag and pad, rain gear, and field boots are needed for the western trip. Field trip fee: \$100.

#### **Undergraduate Independent Study**

**Ia LL 490I (Anthr 490I, NREM 490I)**

*Cr. 1-4.*

*Prereq: Permission of instructor.* Contact Iowa Lakeside Laboratory, for additional information.

#### **Undergraduate Research**

**Ia LL 499**

*Cr. 1-4.*

*Prereq: Permission of instructor.* Contact Iowa Lakeside Laboratory, for additional information.

#### **Graduate Internships**

**Ia LL 503**

*Cr. 1-5.*

*Prereq: Permission of instructor and graduate standing.*

Placement with county conservation boards, camps, parks, schools, etc., for experience as interpreters, rangers, technicians, and teachers.

#### **Freshwater Algae**

**Ia LL 501I (EEOB 501I)**

*Cr. 3. June 14-July 12 MTWRF 8-5*

*Kalina Manoylov, Georgia College & State University*

Biology, ecology and taxonomy of cyanobacteria and eukaryotic freshwater algae based on field collected material. Samples collected from lakes, fens, streams, and rivers will be identified mostly to genus level with some common species identifications within each algal group. Meets June 24 to July 12, 2013.

An ecological perspective is used to explore the diversity of photosynthetic microbes that form the energy base of freshwater ecosystems. Environmental and economic concerns caused by excessive algal growth will also be examined. Field collections will be used to identify the common phyla and genera of algae, to study their life histories, and to examine environmental factors that affect algal growth and distribution. A class project will investigate the algal ecology of Lake West Okoboji. Students should have a working knowledge of basic biology. Appropriate field clothes, hat, sunscreen and insect repellent will be needed. Either old tennis shoes, hip boots or chest waders will be needed for sampling aquatic habitats. The required text is Algae by L.E. Graham, J.M. Graham, and L.W. Wilcox, 2nd edition, 2009 (ISBN-13: 978-0-321-55965-4). Students choosing a career in aquatic ecology, phycology or

botany are strongly encouraged to bring a copy of Freshwater Algae of North America, Ecology and Classification by J.D. Wehr and R.G. Sheath, 2003 (ISBN 0-12-741550-5).

For more information, please contact the instructor via email, kalina.manoylov@gcsu.edu, or telephone, 478-445-2439.

Field trip fee to be announced.

#### **Aquatic Ecology**

**Ia LL 508I (ENSCI 508I, NREM 508I)**

*Cr. 4. May 20-June 14 -MTWRF 8-5*

*Christopher Filstrup, Iowa State University*

*Prereq: Courses in ecology, chemistry, and physics or consent of the instructor.*

In this course, students will study the ecological principles of aquatic ecosystems at the population, community, and ecosystem levels. Students will investigate how physical and chemical environments of aquatic ecosystems affect the distribution and composition of aquatic biota, and vice versa. Although the course will focus on lake ecosystems, students will also study the ecology of streams, rivers, and wetlands. Lectures will cover such topics as the origins of lakes and their global distribution, biogeochemical nutrient cycling, phytoplankton and zooplankton ecology, and management of aquatic ecosystems. This course will have a strong field and laboratory component, in which students will learn field techniques and laboratory analyses commonly used by aquatic ecologists. For example, students will learn methods to measure underwater light climate and mixing regimes of lakes; nitrogen and phosphorus analytical techniques; phytoplankton, zooplankton, and benthic macroinvertebrate identification and enumeration techniques; and measures of community metabolism in aquatic ecosystems. Students will also learn statistical analyses and interpretation of ecological data and writing of scientific manuscripts through laboratory reports. Meets May 20 to June 14, 2013.

#### **Ecology and Systematics of Diatoms**

**Ia LL 580I (EEOB 580I)**

*Cr. 4. May 20-June 14. MTWRF 8-5.*

*Mark Edlund, St. Croix Watershed Research Station, Science Museum of Minnesota, and Sarah Spaulding, US Geological Survey and Institute of Arctic and Alpine Research, University of Colorado*

This course is an intensive, field-oriented class appropriate for advanced undergraduate students, graduate students, and post graduate workers in ecology, geology, environmental sciences, and diatom taxonomy. We will immerse ourselves in the diverse aquatic habitats and fossil deposits of the Upper Midwest to observe freshwater diatoms. Students will learn techniques in diatom collection, preparation, and identification. Lectures will cover taxonomy, systematics and biogeography of most freshwater genera. Students will complete individual voucher collections using modern database techniques and produce a written species treatment using guidelines for electronic publication. Students are encouraged to bring research materials. The use of diatoms in ecological and paleoecological research will be discussed. Class size is limited to ten students and early enrollment is encouraged. Meets May 20 to June 14, 2013. Prerequisite: two

semesters of introductory biology or geology and consent of the instructor.

There is a \$130 fee for laboratory supplies and a \$60 fee for field trips.

Scholarships are available through Iowa Lakeside Lab including the John C. Kingston Diatom Fellowship, which supports a teaching assistant in the course, and the Charles W. Biology, ecology and taxonomy of cyanobacteria and eukaryotic freshwater algae based on field collected material. Samples collected from lakes, fens, streams, and rivers will be identified mostly to genus level with some common species identifications within each algal group. Meets June 24 to July 12, 2013.

An ecological perspective is used to explore the diversity of photosynthetic microbes that form the energy base of freshwater ecosystems. Environmental and economic concerns caused by excessive algal growth will also be examined. Field collections will be used to identify the common phyla and genera of algae, to study their life histories, and to examine environmental factors that affect algal growth and distribution. A class project will investigate the algal ecology of Lake West Okoboji. Students should have a working knowledge of basic biology. Appropriate field clothes, hat, sunscreen and insect repellent will be needed. Either old tennis shoes, hip boots or chest waders will be needed for sampling aquatic habitats. The required text is Algae by L.E. Graham, J.M. Graham, and L.W. Wilcox, 2nd edition, 2009 (ISBN-13: 978-0-321-55965-4). Students choosing a career in aquatic ecology, phycology or botany are strongly encouraged to bring a copy of Freshwater Algae of North America, Ecology and Classification by J.D. Wehr and R.G. Sheath, 2003 (ISBN 0-12-741550-5).

For more information, please contact the instructor via email, kalina.manoylov@gcsu.edu, or telephone, 478-445-2439.

Field trip fee to be announced.



Name (please print): \_\_\_\_\_  
(Last) (First) (Middle) (Term)

Please provide your **university ID** \_\_\_\_\_

*If they have problems with the registration system, call the Registrar's Office (515-294-2331), from 8 a.m. to 4:30 p.m. Monday-Friday.*

- A. **View the *Online Schedule of Classes* at <http://classes.iastate.edu/>** for the list of classes offered for the term. Use the spaces provided below to plan the courses they want on their schedule.
- B. **Meet with your adviser** to discuss their courses and to obtain their Registration Access Number (RAN), if required by your college.
- C. **Register via AccessPlus <http://accessplus.iastate.edu/>**. Follow the instructions and prompts on the screens. *It is your responsibility to check for schedule conflicts.* Attempt to add a course you need even if the section is closed. This action helps the university monitor unmet course demand.
- D. **Additional Registration Regulations**  
 Using the AccessPlus registration system is a privilege, which may be revoked if abuse is detected. Abuse includes, but is not limited to, creating and using an automated program to search for course openings and/or enrolling in a section with the intent of reserving space in that particular section for another student. The Office of the Registrar, college office, and/or advisers have the right to determine abuse and revoke privileges for any type of registration system abuse.

A late registration fee is assessed for registration initiated on or after the first day of classes for fall and spring terms. This fee is not charged for the summer term. If registration is not completed by the end of the fifth day of classes, students must obtain written permission from their advisers, the instructors for the courses they plan to take, as well as approval from the dean of the college in which they are registered. During the summer session, these approvals must be obtained in order to register after the third day of classes.

**Courses**—Be prepared with alternative course selections in case their first choice courses are closed.

Reference #	Department	Course	Section	Credit	Meeting Day(s) and Time	Notes (OK, full, etc.)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

**Alternative courses**

_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

**Notes**

Adviser Signature: \_\_\_\_\_ Date Approved: \_\_\_\_\_

**ACCOUNTING**

LEGAL ENVIRONMT BUS ACCT 215 3 CREDITS  
 Prereq: SOPH CLASSIFICATION  
 Note: COURSE RESTRICTED TO SOPHOMORES AND ABOVE  
 5277005 A MTWRF 7:30-9:30  
 MEETS: MAY 20-JUNE 14

FINANCIAL ACCOUNTING ACCT 284 3 CREDITS  
 Prereq: COURSE NOT OPEN TO FIRST TERM FRESHMEN  
 Note: COURSE RESTRICTED TO SOPHOMORE, JUNIOR,  
 SENIOR AND SPECIAL CLASSIFICATIONS ONLY  
 1110005 A MTWRF 9:50-11:50  
 MEETS: MAY 20-JUNE 14

MANAGERIAL ACCOUNTG ACCT 285 3 CREDITS  
 Prereq: ACCT 284  
 1112005 A MTWRF 12:10-2:10  
 MEETS: JUNE 17-JULY 12

THE ACCOUNTING CYCLE ACCT 301 1 CREDIT  
 Prereq: ACCT 284  
 Note: COURSE RESTRICTED TO ACCT, BUS S, BUS U,  
 BUSEC, FIN, LSCM, MGMT, MIS, MKT, OSCM, P BUS,  
 SCM UNDERGRAD MAJORS. GRADUATE STUDENTS GO TO  
 1200 GERDIN FOR PERMISSION TO ADD.  
 Available for nonmajor graduate credit  
 1078005 W ARRANGED  
 MEETS: JUNE 17-AUG 9

INTMD MANAGERL ACCT ACCT 383 3 CREDITS  
 Prereq: ACCT 285 OR ACCT 501 AND ACCT 301  
 1117005 A1 MTWRF 9:50-11:50  
 MEETS: MAY 20-JUNE 14  
 Note: SECTION A1 RESTRICTED TO ACCT UNDERGRAD MAJORS  
 1117010 A2 MTWRF 9:50-11:50  
 MEETS: MAY 20-JUNE 14  
 Note: SECTION A2 RESTRICTED TO BUS S, BUS U, FIN,  
 LSCM, MGMT, MIS, MKT, OSCM, SCM UNDERGRAD MAJORS

INTMED ACCOUNTING I ACCT 386 3 CREDITS  
 Prereq: ACCT 285 OR ACCT 501 AND ACCT 301  
 1118005 A1 MTWRF 2:30-4:30  
 MEETS: JUNE 17-JULY 12  
 Note: SECTION A1 RESTRICTED TO ACCT MAJORS ONLY  
 1118010 A2 MTWRF 2:30-4:30  
 MEETS: JUNE 17-JULY 12  
 Note: SEC A2 RESTRICTED TO BUS S, BUS U, BUSEC, FIN,  
 LSCM, MGMT, MIS, MKT, OSCM, SCM MAJORS

INDEPENDENT STUDY ACCT 490 1- 3 CREDITS  
 Prereq: ACCT 285, SENIOR CLASSIFICATION,  
 PERMISSION OF INSTRUCTOR  
 Note: COURSE RESTRICTED TO ACCT MAJORS ONLY  
 Department permission required.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

INTRO TO AUDITING ACCT 497 3 CREDITS  
 Prereq: ACCT 384, ACCT 387 AND STAT 326  
 Note: COURSE RESTRICTED TO ACCT UNDERGRAD MAJORS ONLY.  
 GRADUATE STUDENTS GO TO 1200 GERDIN FOR PERMISSION  
 TO ADD.  
 Available for nonmajor graduate credit  
 1126005 A MTWRF 12:10-2:10  
 MEETS: JULY 15-AUG 9

SPECIAL TOPICS ACCT 590 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: RESTRICTED TO BUSINESS COLLEGE GRADUATE STUDENTS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT ACCT 599 2 CREDITS  
 Prereq: ADMISSION TO THE MASTER OF ACCT PROGRAM  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

**ADVERTISING**

ADVERTISING PRINCIP ADVRT 230 3 CREDITS  
 4667005 1 MTWRF 9:50-11:50  
 MEETS: JUNE 17-JULY 12

**AEROSPACE ENGINEERING**

INDEPENDENT STUDY AER E 290C 1- 2 CREDITS  
 Prereq: SOPHOMORE CLASSIFICATION, DEPT APPROVAL  
 Note: COURSE ONLY OFFERED FOR 2 CREDITS SUMMER 2013  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC AER E 298 R CREDIT  
 Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING  
 CAREER SERVICES  
 Satisfactory-Fail Only.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

**AEROSPACE ENGINEERING**

(CONTINUED)

SUMMER INTERNSHIP AER E 396 R CREDIT  
 Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING  
 CAREER SERVICES  
 Satisfactory-Fail Only.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC AER E 398 R CREDIT  
 Prereq: 298, PERMISSION OF DEPARTMENT AND  
 ENGINEERING CAREER SERVICES  
 Satisfactory-Fail Only.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

IND STU A/GAS DYNAM AER E 490A 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

IND STDY PROPULSION AER E 490B 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

IND STU AEROS STRUC AER E 490C 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

IND STU FLIGHT DYNA AER E 490D 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

IND STU SPACECR SYS AER E 490E 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

IND ST FLT CONT SYS AER E 490F 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

IND STDY AEROELASTI AER E 490G 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS AER E 490H 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 UNIV HONORS PROGRAM MEMBERSHIP  
 Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY DESIGN AER E 490I 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

IND STU NONDESTR EV AER E 490J 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

IND STU WIND ENGINR AER E 490K 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

IND STDY ULTRALIGHT AER E 490L 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY AER E 4900 1- 6 CREDITS  
 Prereq: JR/SR CLASSIFICATION, DEPARTMENT APPROVAL  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC AER E 498 R CREDIT  
 Prereq: AER E 398, PERMSN OF DEPARTMENT AND  
 ENGINEERING CAREER SERVICES  
 Satisfactory-Fail Only.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

SPL TOP AER DYNAMCS AER E 590A 1- 5 CREDITS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP PROPULSION AER E 590B 1- 5 CREDITS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

SPL TOP AEROS STRUC AER E 590C 1- 5 CREDITS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

SPL TOP FLIGHT DYNA AER E 590D 1- 5 CREDITS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

SPL TOP SPACECR SYS AER E 590E 1- 5 CREDITS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

SPL TOP FLIGHT CONT AER E 590F 1- 5 CREDITS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

SPL TOP VISCOUS AER AER E 590H 1- 5 CREDITS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

SPL TOP COMP AERODY AER E 590K 1- 5 CREDITS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS



## AEROSPACE ENGINEERING (CONTINUED)

SPCL TOP OPTIMIZATN AER E 590L 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP NONDESTR EV AER E 590M 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP WIND ENGINR AER E 590N 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT AER E 599 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP AER DYNAMCS AER E 690A 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOPC PROPULSION AER E 690B 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP AEROS STRUC AER E 690C 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP FLIGHT DYNA AER E 690D 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP SPACECR SYS AER E 690E 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP FLIGHT CTRL AER E 690F 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP VISCOUS AER AER E 690H 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP COMP AERODY AER E 690K 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP NONDESTR EV AER E 690L 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP WIND ENGINR AER E 690M 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ENGINEERG INTERNSHP AER E 697 R CREDIT  
Prereq: PERMISSION OF DOGE, GRADUATE CLASSIFICATN  
Satisfactory-Fail Only.  
8131005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH AER E 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**AFRICAN AND AFRICAN AMERICAN STUDIES**

INTRO AFRIC AMER ST AF AM 201 3 CREDITS  
Note: Meets U.S. diversity reqmt  
Instructor permission required 1st week.  
8310005 A MTWR 9:50-12:20  
MEETS: JUNE 17-JULY 12

INDEPENDENT STUDY AF AM 490 1- 3 CREDITS  
Prereq: 6 CR IN AF AM, PERMISSION OF INSTRUCTOR  
AND OF THE CHAIR OF THE AF AM STUDIES PROGRAM  
Note: Instructor permission required.  
8357005 ARRANGED  
MEETS: MAY 20-AUG 9

**AGRICULTURAL EDUCATION & STUDIES**

FIELD EXP H.S. AGRI AGEDS 211A 1 CREDIT  
Prereq: AGEDS 110  
7586005 ARRANGED  
MEETS: MAY 20-AUG 9

FIELD EXP AG INDUST AGEDS 211C 1 CREDIT  
Prereq: AGEDS 110  
7603005 ARRANGED  
MEETS: MAY 20-AUG 9

PRESENTN STRATEGIES AGEDS 311 3 CREDITS  
1272005 F 2:00-5:00, ARRANGED  
MEETS: MAY 20-JULY 12

AG MECHAN APPLCATNS AGEDS 388X 3 CREDITS  
7350005 MWF 8:00-10:50  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$200.00

INTERNSHIP IN AGEDS AGEDS 412 2- 6 CREDITS  
Prereq: AGEDS 211, JR CLASSIF IN AGEDS,  
INSTR PERMISSN  
Note: Available for nonmajor graduate credit  
Professional support fee \$65.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## AGRICULTURAL EDUCATION &amp; STUDIES (CONTINUED)

FARM MGMT&OPERATION AGEDS 450 3 CREDITS  
Prereq: ECON 235, ECON 330, JUNIOR CLASSIFICATION  
Note: Available for nonmajor graduate credit  
1386005 1 MWF 12:10-4:00  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$100.00

ENTPRISE MGT:HARVST AGEDS 465B 3 CREDITS  
Prereq: ECON 230; 6 CR HORT; JUNIOR CLASSIFICATN  
Note: Available for nonmajor graduate credit  
9053005 W 12:10-1:10  
M 12:10-3:00  
W 1:10-4:00  
MEETS: MAY 20-AUG 9

IND STU PHIL,CURRIC AGEDS 490A 1- 3 CREDITS  
Prereq: JR/SR CLASSIFICATION, INSTR PERMISSION  
Note: PERMISSION OF INSTRUCTOR REQUIRED 1ST WEEK.  
NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR  
GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU LDRSHP,EVAL AGEDS 490B 1- 3 CREDITS  
Prereq: JR/SR CLASSIFICATION, INSTR PERMISSION  
Note: PERMISSION OF INSTRUCTOR REQUIRED 1ST WEEK.  
NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR  
GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU BUS,PROD AG AGEDS 490C 1- 3 CREDITS  
Prereq: JR/SR CLASSIFICATION, INSTR PERMISSION  
Note: PERMISSION OF INSTRUCTOR REQUIRED 1ST WEEK.  
NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR  
GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU EXTEN,INT'L AGEDS 490D 1- 3 CREDITS  
Prereq: JR/SR CLASSIFICATION, INSTR PERMISSION  
Note: PERMISSION OF INSTRUCTOR REQUIRED 1ST WEEK.  
NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR  
GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU INSTR TCHNL AGEDS 490E 1- 3 CREDITS  
Prereq: JR/SR CLASSIFICATION, INSTR PERMISSION  
Note: PERMISSION OF INSTRUCTOR REQUIRED 1ST WEEK.  
NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR  
GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY ENVIR ISSU AGEDS 490F 1- 3 CREDITS  
Prereq: JR/SR CLASSIFICATION, INSTR PERMISSION  
Note: PERMISSION OF INSTRUCTOR REQUIRED 1ST WEEK.  
NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR  
GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS AGEDS 490H 1- 3 CREDITS  
Prereq: JR/SR CLASSIFICATION, INSTR PERMISSION,  
MEMBERSHIP IN UNIV HONORS PROGRAM  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS  
ONLY. PERMISSION OF INSTRUCTOR REQUIRED 1ST WEEK.  
NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR  
GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU COMMUNICATN AGEDS 490I 1- 3 CREDITS  
Prereq: JR/SR CLASSIFICATION, INSTR PERMISSION  
Note: PERMISSION OF INSTRUCTOR REQUIRED 1ST WEEK.  
NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR  
GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

AG TRAVEL INTERNATL AGEDS 496A 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Meets international perspectives reqmt  
Available for nonmajor graduate credit  
1516800 ET ARRANGED DOLLISSO A  
MEETS: MAY 14-31  
Note: SEC ET TAUGHT IN ETHIOPIA, HAWASSA. TOPIC:  
AGRICULTURE & LIFE SCIENCE EDUCATION. STUDY  
ABROAD SUMMER 2013- OFFERED FOR 2 CREDITS  
Study Abroad Administrative Fee Applies

UNDERGRAD RESEARCH AGEDS 499 VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, ADVISER, &  
DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
8361005 ARRANGED  
MEETS: MAY 20-AUG 9

## AGRICULTURAL EDUCATION &amp; STUDIES (CONTINUED)

SPCL TOP CURRICULUM AGEDS 590A 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOPICS METHODS AGEDS 590B 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP PHILOSOPHY AGEDS 590C 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP EVALUATION AGEDS 590D 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPICS ADMINIST AGEDS 590E 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP LEADERSHIP AGEDS 590F 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPICS GUIDANCE AGEDS 590G 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP INSTR TCHNL AGEDS 590I 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPIC EXTENSION AGEDS 590J 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP INTRNATL AG AGEDS 590K 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP PROGRAM PLAN AGEDS 590L 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

WORKSHOP CURRICULUM AGEDS 593A 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
1317005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Materials fee \$25.00  
Tuition Category: Workshop

METHODS WORKSHOP AGEDS 593B 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
1318005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Materials fee \$25.00  
Tuition Category: Workshop

WRKSHP PROGRAM PLAN AGEDS 593G 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
1323005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Materials, field trips &/or travel fee \$25.00  
Tuition Category: Workshop

WKSHP BIOTECHNOLOGY AGEDS 593M 1- 3 CREDITS  
Prereq: 12 CREDITS IN AGRICULTURAL EDUCATION  
6536005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Materials fee \$25.00  
Tuition Category: Workshop

CREATIVE COMPONENT AGEDS 599 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PRO INTERNSHP AG ED AGEDS 617 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Professional support, field trips &/or  
travel fee \$50.00  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH AGEDS 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**AGRICULTURAL ENGINEERING**

COOPERATIVE EDUC A E 298 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING  
CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUMMER INTERNSHIP A E 396 R CREDIT  
Prereq: PERMISSION OF DEPT & ENGR CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## AGRICULTURAL ENGINEERING (CONTINUED)

COOPERATIVE EDUC A E 398 R CREDIT  
Prereq: A E 298, PERMISSION OF DEPARTMENT AND  
ENGR CAREER SERVICES  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU CPTR-A DSGN A E 490C 1- 4 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS A E 490H 1- 4 CREDITS  
Prereq: MEMBERSHIP IN UNIV HONORS PROGRAM  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY POWER ENGR A E 490P 1- 4 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY STRUCTURES A E 490Q 1- 4 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU ENVIR&N RES A E 490S 1- 4 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN A E 498 R CREDIT  
Prereq: A E 398, PERMISSION OF THE DEPARTMENT AND  
ENGINEERING CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP BIOSYS ENGR A E 590B 1- 3 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPIC FOOD ENGR A E 590F 1- 3 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOPCS POWER ENGR A E 590P 1- 3 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP STRUC&ENVIRN A E 590Q 1- 3 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP PROCESS ENGR A E 590R 1- 3 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP WATER&ENVIR A E 590S 1- 3 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPIC WASTE MGT A E 590U 1- 3 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

MASTER'S TECH COMM A E 598 1 CREDIT  
Satisfactory-Fail Only.  
8332005 ARRANGED  
MEETS: MAY 20-AUG 9

CREATIVE COMPONENT A E 599 VAR. CREDITS  
1044005 ARRANGED  
MEETS: MAY 20-AUG 9

ENGINEERG INTERNSHP A E 697 R CREDIT  
Prereq: PERMISSION OF DEPT CHAIR, GRAD CLASSIF  
Satisfactory-Fail Only.  
1700005 ARRANGED  
MEETS: MAY 20-AUG 9

DOCTORAL TECH COMM A E 698 1 CREDIT  
Satisfactory-Fail Only.  
8333005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH BIOSYS ENG A E 699B VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES ENVIRONMTL SYST A E 699E VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH FOOD ENGR A E 699F VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES PWR&MACHIN ENGR A E 699P VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

STRUCTURES RESEARCH A E 699Q VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH PROCESS ENGR A E 699R VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES ENVIRON&NAT RES A E 699S VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH WASTE MGT A E 699U VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**AGRONOMY**

PROF DEVEL:WORK EXP AGRON 310 R CREDIT  
Satisfactory-Fail Only.  
1389005 ARRANGED  
MEETS: MAY 20-AUG 9

COOPERATIVE EDUCATN AGRON 398 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT COOPERATIVE  
EDUCATION COORDINATOR, JUNIOR CLASSIFICATION  
1411005 ARRANGED  
MEETS: MAY 20-AUG 9

INDEPENDENT STUDY AGRON 490G 1- 3 CREDITS  
Prereq: JR/SR CLASSIF WITH AT LEAST 8 CR IN AGRON  
INSTRUCTOR PERMISN IN SPECIALTY AREA AFTER CONSULTATN  
Note: NO MORE THAN 4 CREDITS OF AGRON 490 MAY BE  
APPLIED TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR  
GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS AGRON 490H 1- 3 CREDITS  
Prereq: JR/SR CLASSIF WITH AT LEAST 8 CR IN AGRON  
INSTRUCTOR PERMISN IN SPECIALTY AREA AFTER CONSULTATN  
MEMBERSHIP IN THE HONORS PROGRAM  
Note: RESTRICTED TO HONORS PROGRAM STUDENTS ONLY.  
NO MORE THAN 4 CREDITS OF AGRON 490 MAY BE APPLIED  
TOWARD THE TOTAL OF 128 CREDITS REQ'D FOR GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

AG INT'L TRAVL TOUR AGRON 496A VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Meets international perspectives regmt  
9433800 GH ARRANGED MANU A  
MEETS: MAY 15-JUNE 3  
Note: SEC GH TAUGHT IN GHANA: ACCRA, CAPE COAST,  
KUMASO, TAMALE. TROPICAL ECOSYSTEMS & RESOURCES  
MANAGEMENT. STUDY ABROAD SUMMER 2013. OFFERED FOR 3  
CREDITS  
Study Abroad Administrative Fee Applies

AGROECOLOGY FLD CRS AGRON 497 3 CREDITS  
Prereq: JR/SR CLASSIFICATN, 8 CREDITS IN AGRONOMY  
8311005 ARRANGED  
MEETS: MAY 20-AUG 9

COOPERATIVE EDUCATN AGRON 498 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT COOPERATIVE  
EDUCATION COORDINATOR; SENIOR CLASSIFICATION  
1416005 ARRANGED  
MEETS: MAY 20-AUG 9

FIELD MTHD PL BRDNG AGRON 522 1- 2 CREDITS  
Prereq: AGRON 521  
Note: COURSE ONLY OFFERED FOR 1 CREDIT SUMMER 2013  
Instructor permission required 1st week.  
Satisfactory-Fail Only.  
1448005 T 8:00-12:00  
MEETS: MAY 20-AUG 9

APPLD AG METEOROLGY AGRON 541 2- 3 CREDITS  
Prereq: AGRON 206 OR UPPER DIVISION BIOLOGICAL  
SCIENCE  
Note: CREDIT FOR EITHER AGRON 503 OR AGRON 541, BUT  
NOT BOTH, MAY BE APPLIED TOWARD GRADUATION.  
OFFERED FOR 2 CREDITS SUMMER 2013.  
1454005 ARRANGED  
MEETS: MAY 20-AUG 9

SPECIAL TOPICS AGRON 590 VAR. CREDITS  
Prereq: 15 CREDITS IN AGRONOMY  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CR COMP AG METEOROL AGRON 599A VAR. CREDITS  
Prereq: NONTHESIS M.S. OPTION ONLY  
1472005 ARRANGED  
MEETS: MAY 20-AUG 9

CR COMP CROP PRD&PH AGRON 599B VAR. CREDITS  
Prereq: NONTHESIS M.S. OPTION ONLY  
1473005 ARRANGED  
MEETS: MAY 20-AUG 9

CR COMP PLNT BREEDG AGRON 599C VAR. CREDITS  
Prereq: NONTHESIS M.S. OPTION ONLY  
1474005 ARRANGED  
MEETS: MAY 20-AUG 9

CRTV COMP SOIL CHEM AGRON 599D VAR. CREDITS  
Prereq: NONTHESIS M.S. OPTION ONLY  
1475005 ARRANGED  
MEETS: MAY 20-AUG 9

CR COMP SOIL FERTIL AGRON 599E VAR. CREDITS  
Prereq: NONTHESIS M.S. OPTION ONLY  
1476005 ARRANGED  
MEETS: MAY 20-AUG 9

**AGRONOMY**

(CONTINUED)

CRTV COMPN SOIL MGT AGRON 599F VAR. CREDITS  
Prereq: NONTHESIS M.S. OPTION ONLY  
1477005 ARRANGED  
MEETS: MAY 20-AUG 9

CR COMP SOIL MICROB AGRON 599G VAR. CREDITS  
Prereq: NONTHESIS M.S. OPTION ONLY  
1478005 ARRANGED  
MEETS: MAY 20-AUG 9

CR COMP SOIL MORPHO AGRON 599H VAR. CREDITS  
Prereq: NONTHESIS M.S. OPTION ONLY  
1479005 ARRANGED  
MEETS: MAY 20-AUG 9

CR COMP SOIL PHYSCS AGRON 599I VAR. CREDITS  
Prereq: NONTHESIS M.S. OPTION ONLY  
1480005 ARRANGED  
MEETS: MAY 20-AUG 9

AGRON TCHNG PRACTCM AGRON 698 1- 2 CREDITS  
Prereq: GRADUATE CLASSIFICATION IN AGRON AND  
PERMISSION OF INSTRUCTOR  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES AG METEOROLOGY AGRON 699A VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES CROP PROD&PHYSL AGRON 699B VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES PLANT BREEDING AGRON 699C VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH SOIL CHEM AGRON 699D VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH SOIL FERTILI AGRON 699E VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH SOIL MGMT AGRON 699F VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES SOIL MICROBIOL AGRON 699G VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH SOIL MORPHOL AGRON 699H VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH SOIL PHYSICS AGRON 699I VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES PLANT PHYSIOLGY AGRON 699J VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH SEED SCI AGRON 699K VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH WEED SCI AGRON 699L VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**AMERICAN INDIAN STUDIES**

INTR AM INDIAN STDI AM IN 210 3 CREDITS  
Note: Meets U.S. diversity reqmt  
1506005 1 MTWRF 9:50-11:50  
MEETS: JUNE 17-JULY 12

INDEPENDENT STUDY AM IN 490 VAR. CREDITS  
Prereq: 6 CR IN AM IN STUDIES, INSTR PERMISSION  
Note: COURSE ONLY OFFERED FOR 1-9 CREDITS SUMMER 2013.  
NO MORE THAN 9 CREDITS IN AM IN 490 MAY BE APPLIED  
TOWARD GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**ANIMAL ECOLOGY**

ECOLOGY A ECL 312 4 CREDITS  
Prereq: BIOL 211L AND BIOL 212L  
1061005 A MTWR 9:50-11:05  
MW 12:10-3:00  
MEETS: MAY 20-JULY 12  
Note: Materials, field trips &/or travel fee \$62.00

1061010 B MTWR 9:50-11:05  
TR 12:10-3:00  
MEETS: MAY 20-JULY 12  
Note: Materials, field trips &/or travel fee \$62.00

ECOLOGY A ECL 312I 4 CREDITS  
Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
3713005 1 MTWRF 8:00-5:00  
MEETS: MAY 20-JUNE 14  
Note: Tuition Category: Iowa Lakeside Lab

## ANIMAL ECOLOGY (CONTINUED)

GRAD IND STDY IA LL A ECL 590I 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR & GRAD CLASSIF  
Note: Permission of Lakeside Lab Office required  
http://www.continuetolearn.uiowa.edu/lakesidelab  
3979005 1 ARRANGED  
MEETS: MAY 20-JUNE 14  
Note: Tuition Category: Iowa Lakeside Lab  
3979010 2 ARRANGED  
MEETS: JUNE 17-JULY 12  
Note: Tuition Category: Iowa Lakeside Lab

CREATIVE COMPONENT A ECL 599 VAR. CREDITS  
Prereq: NONTHESIS M.S. OPTION ONLY  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

TEACHING PRACTICUM A ECL 698 1- 3 CREDITS  
Prereq: GRADUATE CLASSIFICATION IN ANIMAL ECOLOGY  
AND PERMISSION OF INSTRUCTOR  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH A ECL 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH - IA LL A ECL 699I 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Permission of Lakeside Lab Office required  
http://www.continuetolearn.uiowa.edu/lakesidelab  
3966005 1 ARRANGED  
MEETS: MAY 20-JUNE 14  
Note: Tuition Category: Iowa Lakeside Lab  
3966010 2 ARRANGED  
MEETS: JUNE 17-JULY 12  
Note: Tuition Category: Iowa Lakeside Lab

**ANIMAL SCIENCE**

PRA SAFE HORSE HNDL AN S 116X 1 CREDIT  
Satisfactory-Fail Only.  
6980005 1 TR 4:00-7:15PM FERWERDA N  
MEETS: MAY 20-JUNE 21  
Note: Materials and equipment use fee \$100.00

ANIM SCI INTERNSHIP AN S 399A 2- 6 CREDITS  
Prereq: PERMISSION OF THE INSTRUCTOR  
1538005 ARRANGED  
MEETS: MAY 20-AUG 9

SUPERV'D INTERNSHIP AN S 399B R CREDIT  
Prereq: PERMISSION OF INTERNSHIP COORDINATOR  
Satisfactory-Fail Only.  
2258005 ARRANGED  
MEETS: MAY 20-AUG 9

IND STDY ANIMAL SCI AN S 490A 1- 3 CREDITS  
Prereq: PERMISSION OF THE INSTRUCTOR  
Note: NO MORE THAN 6 CREDITS OF AN S 490 MAY BE  
APPLIED TOWARD THE TOTAL CREDITS REQUIRED FOR  
GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STUDY DAIRY SCI AN S 490B 1- 3 CREDITS  
Prereq: PERMISSION OF THE INSTRUCTOR  
Note: NO MORE THAN 6 CREDITS OF AN S 490 MAY BE  
APPLIED TOWARD THE TOTAL CREDITS REQUIRED FOR  
GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STDY MEAT SCI AN S 490C 1- 3 CREDITS  
Prereq: PERMISSION OF THE INSTRUCTOR  
Note: NO MORE THAN 6 CREDITS OF AN S 490 MAY BE  
APPLIED TOWARD THE TOTAL CREDITS REQUIRED FOR  
GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU POULTRY SCI AN S 490G 1- 3 CREDITS  
Prereq: PERMISSION OF THE INSTRUCTOR  
Note: NO MORE THAN 6 CREDITS OF AN S 490 MAY BE  
APPLIED TOWARD THE TOTAL CREDITS REQUIRED FOR  
GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS AN S 490H 1- 3 CREDITS  
Prereq: PERMISSION OF THE INSTRUCTOR, MEMBERSHIP  
IN THE HONORS PROGRAM  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS  
ONLY. NO MORE THAN 6 CREDITS OF AN S 490 MAY BE  
APPLIED TOWARD THE TOTAL CREDITS REQUIRED FOR  
GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

WORKSHP IN ANIM SCI AN S 493 1- 3 CREDITS  
Prereq: PERMISSION OF THE INSTRUCTOR  
Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013  
Available for nonmajor graduate credit  
7744005 1 ARRANGED  
MEETS: JULY 8-OCT 30

## ANIMAL SCIENCE (CONTINUED)

AG INT'L TRAVEL CRS AN S 496A VAR. CREDITS  
Prereq: INSTRUCTOR PERMISSION, 30 COLLEGE CREDITS  
Note: Meets international perspectives reqmt  
1876800 ET ARRANGED JACKSON C  
MEETS: MAY 14-31  
Note: SEC ET TAUGHT IN ETHIOPIA, HAWASSA. TOPIC:  
AGRICULTURE & LIFE SCIENCE EDUCATION. STUDY  
ABROAD SUMMER 2013- OFFERED FOR 2 CREDITS  
Study Abroad Administrative Fee Applies

TEACHNG EXPRNC AN S AN S 497 1- 2 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 4 CREDITS OF AN S 497 MAY BE APPLIED  
TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP AN BREEDING AN S 590A 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP ANIMAL NUTR AN S 590B 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP MEAT AN PRO AN S 590C 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP DAIRY PROD AN S 590D 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPICS MEAT SCI AN S 590E 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP PHYS REPROD AN S 590F 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP MUSCLE BIOL AN S 590G 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP POULTR NUTR AN S 590H 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP PROF TOPICS AN S 590K 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPICS TEACHING AN S 590L 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPICS ETHOLOGY AN S 590N 1- 3 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV COMP AN BREEDG AN S 599A 1- 8 CREDITS  
Prereq: NONTHESIS M.S. STATUS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV COMP ANI NUTRI AN S 599B 1- 8 CREDITS  
Prereq: NONTHESIS M.S. STATUS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV CMP AN PHYSIOL AN S 599C 1- 8 CREDITS  
Prereq: NONTHESIS M.S. STATUS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV COMPO ANIM SCI AN S 599D 1- 8 CREDITS  
Prereq: NONTHESIS M.S. STATUS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV COMPO MEAT SCI AN S 599E 1- 8 CREDITS  
Prereq: NONTHESIS M.S. STATUS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ANIMAL BREEDING RES AN S 699A VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ANIMAL NUTRI RESRCH AN S 699B VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

MEAT ANIM PRODU RES AN S 699C VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

DAIRY PROD RESEARCH AN S 699D VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

MEAT SCIEN RESEARCH AN S 699E VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

REPROD PHYSOL RSRCH AN S 699F VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## ANIMAL SCIENCE

(CONTINUED)

MUSCLE BIOLGY RSRCH AN S 699G VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

POULTRY NUTRI RSRCH AN S 699H VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ANIM ETHOLOGY RSRCH AN S 699J VAR. CREDITS  
 Note: COURSE ONLY OFFERED FOR 1-3 CREDITS SUMMER 2013  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**ANTHROPOLOGY**

APPLIED ANTHROPOLOGY ANTHR 411 3 CREDITS  
 Prereq: 201 OR 306  
 Note: Meets international perspectives reqmt  
 1622800 LK ARRANGED DUSSELIER J  
 MEETS: MAY 2-22  
 Note: SEC LK TAUGHT IN SRI LANKA. CULTURAL STUDIES IN  
 SRI LANKA, THE ENVIRONMENT, REGION, AND FOOD. STUDY  
 ABROAD SUMMER 2013.  
 Study Abroad Administrative Fee Applies

GLOB CULTR, CONSMPTN ANTHR 418 3 CREDITS  
 Prereq: 201 OR 306 RECOMMENDED  
 Note: Meets international perspectives reqmt  
 7375005 A MTWRF 9:50-11:50  
 MEETS: MAY 20-JUNE 14

ARCHAEOLOGY ANTHR 427I 4 CREDITS  
 Note: Available for nonmajor graduate credit  
 Permission of Lakeside Lab Office required  
 http://www.continuetolearn.uiowa.edu/lakesidelab  
 3842005 MTWRF 8:00-5:00  
 MEETS: JUNE 17-JULY 12  
 Note: Tuition Category: Iowa Lakeside Lab

INTERNSHIP ARCHAEOLOGY ANTHR 434A 2- 6 CREDITS  
 Prereq: JUNIOR OR SENIOR STANDING  
 Note: NO MORE THAN 6 CREDITS OF INTERNSHIP EXPERIENCE  
 MAY COUNT TOWARDS THE MAJOR. NO CREDIT IN ANTHR 434  
 MAY BE USED TO SATISFY ANTHR CORE COURSE REQUIREMENTS  
 FOR THE MAJOR OR FOR THE ANTHR MINOR.  
 Satisfactory-Fail Only.  
 7718005 A ARRANGED  
 MEETS: MAY 20-AUG 9

INTERNSHIP CULTRL A ANTHR 434B 2- 6 CREDITS  
 Prereq: JUNIOR OR SENIOR STANDING  
 Note: NO MORE THAN 6 CREDITS OF INTERNSHIP EXPERIENCE  
 MAY COUNT TOWARDS THE MAJOR. NO CREDIT IN ANTHR 434  
 MAY BE USED TO SATISFY ANTHR CORE COURSE REQUIREMENTS  
 FOR THE MAJOR OR FOR THE ANTHR MINOR.  
 Satisfactory-Fail Only.  
 1031005 ARRANGED  
 MEETS: MAY 20-AUG 9

INTERNSHP BIOLOGC A ANTHR 434C 2- 6 CREDITS  
 Prereq: JUNIOR OR SENIOR STANDING  
 Note: NO MORE THAN 6 CREDITS OF INTERNSHIP EXPERIENCE  
 MAY COUNT TOWARDS THE MAJOR. NO CREDIT IN ANTHR 434  
 MAY BE USED TO SATISFY ANTHR CORE COURSE REQUIREMENTS  
 FOR THE MAJOR OR FOR THE ANTHR MINOR. OFFERED FOR  
 3 CREDITS SUMMER 2012.  
 Satisfactory-Fail Only.  
 1072005 ARRANGED  
 MEETS: MAY 20-AUG 9

INDEP STDY ARCHAEOLOGY ANTHR 490A 1- 5 CREDITS  
 Prereq: 9 CREDITS IN ANTHROPOLOGY  
 Note: NO MORE THAN 9 CREDITS OF ANTHR 490 MAY BE  
 APPLIED TOWARD GRADUATION  
 Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU CULTR ANTHR ANTHR 490B 1- 5 CREDITS  
 Prereq: 9 CREDITS IN ANTHROPOLOGY  
 Note: NO MORE THAN 9 CREDITS OF ANTHR 490 MAY BE  
 APPLIED TOWARD GRADUATION  
 Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU BIOL ANTHRO ANTHR 490C 1- 5 CREDITS  
 Prereq: 9 CREDITS IN ANTHROPOLOGY  
 Note: NO MORE THAN 9 CREDITS OF ANTHR 490 MAY BE  
 APPLIED TOWARD GRADUATION  
 Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY LING ANTHR ANTHR 490D 1- 5 CREDITS  
 Prereq: 9 CREDITS IN ANTHROPOLOGY  
 Note: NO MORE THAN 9 CREDITS OF ANTHR 490 MAY BE  
 APPLIED TOWARD GRADUATION  
 Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## ANTHROPOLOGY

(CONTINUED)

INDEP STUDY HONORS ANTHR 490H 1- 5 CREDITS  
 Prereq: 9 CREDITS IN ANTHROPOLOGY, MEMBERSHIP IN  
 THE HONORS PROGRAM  
 Note: NO MORE THAN 9 CREDITS OF ANTHR 490 MAY BE  
 APPLIED TOWARD GRADUATION. COURSE RESTRICTED TO  
 HONORS PROGRAM STUDENTS ONLY.  
 Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

UG INDEP STDY IA LL ANTHR 490I 1- 4 CREDITS  
 Prereq: JUNIOR OR SENIOR CLASSIFICATION AND  
 PERMISSION OF INSTRUCTOR  
 Note: NO MORE THAN 9 CREDITS OF ANTHR 490 MAY BE  
 APPLIED TOWARD GRADUATION  
 Permission of Lakeside Lab Office required  
 http://www.continuetolearn.uiowa.edu/lakesidelab  
 7822005 1 ARRANGED  
 MEETS: MAY 20-JUNE 14  
 Note: Tuition Category: Iowa Lakeside Lab  
 7822010 2 ARRANGED  
 MEETS: JUNE 17-JULY 12  
 Note: Tuition Category: Iowa Lakeside Lab

GLOB CULTR, CONSMPTN ANTHR 518 3 CREDITS  
 Prereq: 201 OR 306 RECOMMENDED  
 Note: Meets international perspectives reqmt  
 7376005 A MTWRF 9:50-11:50  
 MEETS: MAY 20-JUNE 14

GRAD INDEPNDNT STDY ANTHR 590 1- 4 CREDITS  
 Prereq: GRAD CLASSIFICATION, INSTRUCTOR PERMISSN  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

GRAD IND STDY IA LL ANTHR 590I 1- 4 CREDITS  
 Prereq: GRAD CLASSIFICATION, INSTRUCTOR PERMISSN  
 Note: Permission of Lakeside Lab Office required  
 http://www.continuetolearn.uiowa.edu/lakesidelab  
 7823005 1 ARRANGED  
 MEETS: MAY 20-JUNE 14  
 Note: Tuition Category: Iowa Lakeside Lab  
 7823010 2 ARRANGED  
 MEETS: JUNE 17-JULY 12  
 Note: Tuition Category: Iowa Lakeside Lab

RESEARCH ANTHR 699 VAR. CREDITS  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH - IA LL ANTHR 699I 1- 4 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Permission of Lakeside Lab Office required  
 http://www.continuetolearn.uiowa.edu/lakesidelab  
 7824005 1 ARRANGED  
 MEETS: MAY 20-JUNE 14  
 Note: Tuition Category: Iowa Lakeside Lab  
 7824010 2 ARRANGED  
 MEETS: JUNE 17-JULY 12  
 Note: Tuition Category: Iowa Lakeside Lab

**APPAREL, ED STUDIES&HOSPITALITY MGMT**

SUPV WRK EXP I:HSPY AESHM 170D 1 CREDIT  
 Prereq: PERMISSION BY APPLICATION; FRESHMAN  
 CLASSIFICATION  
 Note: NO MORE THAN 12 CREDITS TOTAL FROM AESHM 170,  
 AESHM 270, AND AESHM 470 MAY BE APPLIED TOWARD  
 GRADUATION  
 Instructor permission required.  
 1107005 ARRANGED  
 MEETS: MAY 20-AUG 9

SUPV WRK EXP I:EVNT AESHM 170F 1 CREDIT  
 Prereq: PERMISSION BY APPLICATION; FRESHMAN  
 CLASSIFICATION  
 Note: NO MORE THAN 12 CREDITS TOTAL FROM AESHM 170,  
 AESHM 270, AND AESHM 470 MAY BE APPLIED TOWARD  
 GRADUATION  
 Instructor permission required.  
 1113005 ARRANGED  
 MEETS: MAY 20-AUG 9

SPV WRK EXP I:APPAR AESHM 170N 1 CREDIT  
 Prereq: PERMISSION BY APPLICATION; FRESHMAN  
 CLASSIFICATION  
 Note: NO MORE THAN 12 CREDITS TOTAL FROM AESHM 170,  
 AESHM 270, AND AESHM 470 MAY BE APPLIED TOWARD  
 GRADUATION  
 Instructor permission required.  
 1125005 ARRANGED  
 MEETS: MAY 20-AUG 9

SUP WRK EXP II:HSPY AESHM 270D 1- 2 CREDITS  
 Prereq: MINIMUM 2.0 GPA; PERMISSION BY  
 APPLICATION; SOPHOMORE CLASSIFICATION; 6 CR IN AESHM  
 OR HRI  
 Note: NO MORE THAN 12 CREDITS TOTAL FROM AESHM 170,  
 AESHM 270, AND AESHM 470 MAY BE APPLIED TOWARD  
 GRADUATION  
 Instructor permission required.  
 1132005 ARRANGED  
 MEETS: MAY 20-AUG 9

## APPAREL, ED STUDIES&amp;HOSPITALITY MGMT (CONTINUED)

SUP WRK EXP II:EVNT AESHM 270F 1- 2 CREDITS  
 Prereq: MINIMUM 2.0 GPA; PERMISSION BY APPLICATION; SOPHOMORE CLASSIFICATION; 6 CR IN AESHM, HRI, OR TC.  
 Note: NO MORE THAN 12 CREDITS TOTAL FROM AESHM 170, AESHM 270, AND AESHM 470 MAY BE APPLIED TOWARD GRADUATION  
 Instructor permission required.  
 1203005 ARRANGED  
 MEETS: MAY 20-AUG 9

SUP WRK EXP II:APPA AESHM 270N 1- 2 CREDITS  
 Prereq: MINIMUM 2.0 GPA; PERMISSION BY APPLICATION; SOPHOMORE CLASSIFICATION; 6 CR IN AESHM OR TC  
 Note: NO MORE THAN 12 CREDITS TOTAL FROM AESHM 170, AESHM 270, AND AESHM 470 MAY BE APPLIED TOWARD GRADUATION  
 Instructor permission required.  
 1270005 ARRANGED  
 MEETS: MAY 20-AUG 9

SUP WRK EXP II: ISU AESHM 270P 1- 2 CREDITS  
 Prereq: MINIMUM 2.0 GPA; PERMISSION BY APPLICATION; SOPHOMORE CLASSIFICATION; 6 CR IN AESHM OR HRI  
 Note: NO MORE THAN 12 CREDITS TOTAL FROM AESHM 170, AESHM 270, AND AESHM 470 MAY BE APPLIED TOWARD GRADUATION  
 Instructor permission required.  
 1282005 ARRANGED  
 MEETS: MAY 20-AUG 9

AESTHTCS CNSMR EXPC AESHM 342 3 CREDITS  
 Note: Meets U.S. diversity reqmt  
 4609005 A ARRANGED  
 MEETS: MAY 20-JULY 12  
 Note: Course delivery is WWW

U.S. FIELD STUDY AESHM 380 1- 3 CREDITS  
 Prereq: 9 CR IN T C, JR CLASSIF, MINIMUM 2.0 GPA, PERMISSION BY APPLICATION  
 Note: Instructor permission required.  
 Field trips & travel fee \$400.00-\$1,500.00  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN AESHM 398 R CREDIT  
 Prereq: PERMISSION OF DEPT CHAIR; JR CLASSIFICATN  
 1002005 ARRANGED  
 MEETS: MAY 20-AUG 9

INTERNSHIP HOSPTLTY AESHM 470D VAR. CREDITS  
 Prereq: AESHM 311, 9 CREDITS IN HRI, AND MINIMUM 2.0 GPA; PERMISSION BY APPLICATION; JUNIOR OR SENIOR CLASSIFICATION  
 Note: NO MORE THAN 12 CREDITS TOTAL FROM AESHM 170, AESHM 270, AND AESHM 470 MAY BE APPLIED TOWARD GRADUATION. COURSE ONLY OFFERED FOR 3-6 CREDITS SUMMER 2013.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERNSHP EVENT MGT AESHM 470F VAR. CREDITS  
 Prereq: AESHM 271, AESHM 311, EVENT 271, EVENT 371; AND MINIMUM 2.0 GPA; PERMISSION BY APPLICATION; JUNIOR OR SENIOR CLASSIFICATION  
 Note: NO MORE THAN 12 CREDITS TOTAL FROM AESHM 170, AESHM 270, AND AESHM 470 MAY BE APPLIED TOWARD GRADUATION. COURSE ONLY OFFERED FOR 3-6 CREDITS SUMMER 2013.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERNSHIP APPAREL AESHM 470N VAR. CREDITS  
 Prereq: AESHM 311, 9 CREDITS IN T C, MINIMUM 2.0 GPA; PERMISSION BY APPLICATION; JUNIOR OR SENIOR CLASSIFICATION  
 Note: NO MORE THAN 12 CREDITS TOTAL FROM AESHM 170, AESHM 270, AND AESHM 470 MAY BE APPLIED TOWARD GRADUATION. COURSE ONLY OFFERED FOR 3-6 CREDITS SUMMER 2013.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTRNSHP ISU DINING AESHM 470P VAR. CREDITS  
 Prereq: AESHM 311, 9 CREDITS IN AESHM OR HRI, AND MINIMUM 2.0 GPA; PERMISSION BY APPLICATION; JUNIOR OR SENIOR CLASSIFICATION  
 Note: NO MORE THAN 12 CREDITS TOTAL FROM AESHM 170, AESHM 270, AND AESHM 470 MAY BE APPLIED TOWARD GRADUATION. COURSE ONLY OFFERED FOR 3-6 CREDITS SUMMER 2013.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PRACTCM APPAR MCHDS AESHM 570A 1- 3 CREDITS  
 Prereq: 6 GRAD CREDITS IN PROGRAM AREA; INSTRUCTOR PERMISSION  
 6660005 ARRANGED  
 MEETS: MAY 20-AUG 9

## APPAREL, ED STUDIES&amp;HOSPITALITY MGMT (CONTINUED)

PRACTCM HSPTLTY MGT AESHM 570B 1- 3 CREDITS  
 Prereq: 6 GRAD CREDITS IN PROGRAM AREA; INSTRUCTOR PERMISSION  
 1509005 ARRANGED  
 MEETS: MAY 20-AUG 9  
 Note: Instructor permission required.

## ARCHITECTURE

PRACTICAL EXPERIENC ARCH 310 R CREDIT  
 Prereq: PERMISSION OF DEPARTMENT CHAIR  
 2544005 ARRANGED  
 MEETS: MAY 20-AUG 9

IND STDY DSN COMMUN ARCH 490A 1- 9 CREDITS  
 Prereq: APPROVL OF INSTR & DEPT CHAIR ON REQ FORM  
 Note: Department permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY DESIGN ARCH 490B 1- 9 CREDITS  
 Prereq: APPROVL OF INSTR & DEPT CHAIR ON REQ FORM  
 Note: Department permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY TECHN SYST ARCH 490C 1- 9 CREDITS  
 Prereq: APPROVL OF INSTR & DEPT CHAIR ON REQ FORM  
 Note: Department permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STUDY ARCH HIST ARCH 490D 1- 9 CREDITS  
 Prereq: APPROVL OF INSTR & DEPT CHAIR ON REQ FORM  
 Note: Department permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STUDY BEHAV STD ARCH 490E 1- 9 CREDITS  
 Prereq: APPROVL OF INSTR & DEPT CHAIR ON REQ FORM  
 Note: Department permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STDY PRACTICE ARCH 490F 1- 9 CREDITS  
 Prereq: APPROVL OF INSTR & DEPT CHAIR ON REQ FORM  
 Note: Department permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS ARCH 490H 1- 9 CREDITS  
 Prereq: APPROVAL OF INSTR & DEPT CHAIR ON REQUIRED FORM. MEMBERSHIP IN THE HONORS PROGRAM.  
 Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
 Department permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ARC DSIGN&MEDIA III ARCH 507 5 CREDITS  
 Prereq: ARCH 506, ARCH 542, ARCH 596 AND CONCURRENT ENROLLMENT IN ARCH 581  
 1300005 1 T 8:40-12:00  
 MWF 8:40-12:00  
 MEETS: MAY 20-JULY 12

STDY ABROAD OPTIONS ARCH 576 1-12 CREDITS  
 Note: Meets international perspectives reqmt  
 8672805 CN ARRANGED SHAO P  
 MEETS: MAY 14-27  
 Note: SEC CN TAUGHT IN CHINA. FIELD STUDIES IN CHINESE ARCHITECTURE. STUDY ABROAD SUMMER 2013 TAUGHT FOR 3 CREDITS  
 Study Abroad Administrative Fee Applies  
 8672800 DE ARRANGED PASSE U  
 MEETS: MAY 31-JUNE 30  
 Note: SEC DE TAUGHT IN BERLIN, GERMANY. SUMMER ACADEMY BERLIN 2013. STUDY ABROAD SUMMER 2013. OFFERED FOR 4 CREDITS.  
 Study Abroad Administrative Fee Applies

SERVICE LEARNING ARCH 581 5 CREDITS  
 Prereq: ARCH 506, 542 AND ARCH 596  
 1719005 1 MTW 1:40-4:00  
 R 1:40-5:00  
 MEETS: MAY 20-JULY 12

SPECIAL TOPICS ARCH 590 1- 5 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTRUCTOR AND DEPARTMENT CHAIR ON APPROVED FORM  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP DESIGN STUDY ARCH 690 6 CREDITS  
 Prereq: ADMISSION TO THE M. S. IN ARCH. PROGRAM  
 Note: Department permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH ARCH 699 3- 9 CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**ART & DESIGN**

- GRAPHIC DSGN IN EUR ART 495G 3 CREDITS  
Prereq: 494, PERMISSION OF INSTRUCTOR  
Note: Meets international perspectives reqmt  
Instructor permission required 1st week.  
1858800 IT ARRANGED FONTAINE L  
MEETS: MAY 13-JUNE 3  
Note: SEC IT TAUGHT IN ITALY, SWITZERLAND, GERMANY,  
THE NETHERLANDS, FRANCE. TOPIC: GRAPIC DESIGN IN  
EUROPE. STUDY ABROAD SUMMER 2013  
Study Abroad Administrative Fee Applies
- STUDIO INTERNSHIP ART 497 1- 6 CREDITS  
Prereq: ADVANCED CLASSIFICATION IN A DEPT CURR,  
WRITTEN APPROVAL OF SUPERVISING INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
Note: Instructor permission required.  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- MUSEUM/GLLRY INTERN ART 498 1- 6 CREDITS  
Prereq: ADVANCED CLASSIFICATION IN A DEPT CURR,  
WRITTEN APPROVAL OF SUPERVISING INSTR ON REQUIRED  
FORM IN ADVANCE OF SEM OF ENROLLMENT  
Satisfactory-Fail Only.  
7821005 JC ARRANGED  
MEETS: MAY 20-AUG 9
- GRAPHIC DSGN IN EUR ART 595G 3 CREDITS  
Prereq: GRAD CLASSIF, 494 OR EQUIV, INSTR PERMSSN  
Note: COURSE RESTRICTED TO GRADUATE ART MAJORS  
1910800 IT ARRANGED FONTAINE L  
MEETS: MAY 13-JUNE 3  
Note: SEC IT TAUGHT IN ITALY, SWITZERLAND, GERMANY,  
THE NETHERLANDS, FRANCE. TOPIC: GRAPIC DESIGN IN  
EUROPE. STUDY ABROAD SUMMER 2013  
Study Abroad Administrative Fee Applies
- MUSEUM/GLLRY INTERN ART 598 1- 6 CREDITS  
Prereq: GRAD CLASSIFICATION & INSTRUCTOR PERMISN  
WRITTEN APPROVAL IN ADVANCE OF SEMESTER OF ENROLLMENT  
Note: FOR GRADUATE ART MAJORS  
Satisfactory-Fail Only.  
9445005 JC ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Department permission required.
- STUDIO INTERNSHIP ART 697 VAR. CREDITS  
Prereq: GRAD CLASSIF & APPROVAL OF POS COMMITTEE  
Note: COURSE ONLY OFFERED FOR 1-9 CREDITS SUMMER 2013.  
FOR GRADUATE ART MAJORS ONLY.  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- THESIS RESEARCH ART 699A VAR. CREDITS  
1949005 ARRANGED  
MEETS: MAY 20-AUG 9
- THESIS RES--EXHIBIT ART 699B VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**ART HISTORY**

- AMERICAN ART TO 1945 ART H 386X 3 CREDITS  
Note: Meets U.S. diversity reqmt  
Available for nonmajor graduate credit  
9596005 ARRANGED  
MEETS: MAY 20-JULY 12  
Note: Course delivery is WW
- HISTORY OF COMICS ART H 489 3 CREDITS  
Note: Available for nonmajor graduate credit  
3875005 ARRANGED  
MEETS: JUNE 17-AUG 9  
Note: TOPIC: SEQUENTIAL ARTS  
Course delivery is WW
- INDEPENDENT STUDY ART H 490 1- 6 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTRUCTOR AND  
DEPARTMENT CHAIR ON REQUIRED FORM BEFORE THE SEMESTER  
OF ENROLLMENT  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- INDEP STUDY HONORS ART H 490H 1- 6 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTRUCTOR AND  
DEPARTMENT CHAIR ON REQUIRED FORM BEFORE THE SEMESTER  
OF ENROLLMENT  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- SPECIAL TOPICS ART H 590 VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN ART AND/OR DSGN,  
OR EVIDENCE OF SATISFACTORY EQUIV IN SPECIALZD  
AREA. WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMT  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**ASTRONOMY & ASTROPHYSICS**

- NORTH STAR ASTRONMY ASTRO 102 1 CREDIT  
Note: STUDENTS WHO TAKE ASTRO 120 MAY APPLY CREDIT  
IN ONLY ONE OF ASTRO 102 OR 103 TOWARD GRADUATION  
8059005 ARRANGED  
MEETS: JUNE 17-AUG 9  
Note: Course delivery is WW
- EVENING STAR ASTRO 103 1 CREDIT  
Note: STUDENTS WHO TAKE ASTRO 120 MAY APPLY CREDIT  
IN ONLY ONE OF ASTRO 102 OR 103 TOWARD GRADUATION  
8260005 ARRANGED  
MEETS: JUNE 17-AUG 9  
Note: Course delivery is WW
- SKY & SOLAR SYSTEM ASTRO 120 3 CREDITS  
Note: STUDENTS WHO TAKE ASTRO 120 MAY APPLY CREDIT  
IN ONLY ONE OF ASTRO 102 OR 103 TOWARD GRADUATION  
1951005 1 MTRF 8:40-9:40  
R 8:40-9:40  
MEETS: JUNE 17-AUG 9
- INDEPENDENT STUDY ASTRO 290 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- UNDERGRAD RESEARCH ASTRO 450 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- UNDERGRAD RESEARCH ASTRO 450L 1- 6 CREDITS  
Prereq: 344L AND PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- INDEPENDENT STUDY ASTRO 490 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 9 CREDITS OF ASTRO 490 MAY BE  
APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- SPECIAL TOPICS ASTRO 590 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- CREATIVE COMPONENT ASTRO 599 VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- RESEARCH ASTRO 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- BIOCHEM, BIOPHYSICS & MOLECULAR BIO**
- SURVEY OF BIOCHEM BBMB 301 3 CREDITS  
Prereq: CHEM 231 OR CHEM 331  
Note: AGBIO, BIOCHEMISTRY OR BIOPHYSICS MAJORS MAY NOT  
APPLY CREDIT FOR BBMB 301 TOWARD DEGREE REQUIREMENTS  
FOR THE MAJOR BUT IT IS ACCEPTABLE AS AN ELECTIVE  
1999005 MTRF 8:40-9:40  
MEETS: MAY 20-JULY 12
- INDEPENDENT STUDY BBMB 490 VAR. CREDITS  
Prereq: INSTRUCTOR PERMISSION; COLLEGE OF  
AGRICULTURE: JUNIOR OR SENIOR CLASSIFICATION  
Note: STUDENTS IN THE COLLEGE OF AGRICULTURE MAY APPLY  
NO MORE THAN 6 CREDITS OF 490 TOWARD GRADUATION.  
STUDENTS IN THE LAS COLLEGE MAY APPLY NO MORE THAN  
9 CREDITS OF 490 TOWARD GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- INDEP STUDY HONORS BBMB 490H VAR. CREDITS  
Prereq: MEMBERSHIP IN UNIV HONORS PROGRAM  
INSTRUCTOR PERMISSION; COLLEGE OF AGRICULTURE:  
JUNIOR OR SENIOR CLASSIFICATION  
Note: STUDENTS IN THE COLLEGE OF AGRICULTURE MAY APPLY  
NO MORE THAN 6 CREDITS OF 490 TOWARD GRADUATION.  
STUDENTS IN THE LAS COLLEGE MAY APPLY NO MORE THAN  
9 CREDITS OF 490 TOWARD GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- UNDERGRAD RESEARCH BBMB 499 1- 5 CREDITS  
Prereq: PERMISSION OF FACULTY MEMBER WITH WHOM  
STUDENT PROPOSES TO WORK  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- INTRO DNA TECHNIQS BBMB 542A 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
7099005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JUNE 17-JULY 2
- INTR PROTEIN TECHNQ BBMB 542B 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
7100005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JULY 15-30

## BIOCHEM, BIOPHYSICS &amp; MOLECULAR BIO (CONTINUED)

SPECIAL TOPICS BBMB 590 VAR. CREDITS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

RESEARCH BBMB 699 VAR. CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

**BIOINFORMATICS&COMPUTATIONAL BIOL-UG**

INDEPENDENT STUDY BCbio 490 1- 5 CREDITS  
 Prereq: BCbio 211, JUNIOR OR SENIOR CLASSIFICATION,  
 PERMISSION OF INSTRUCTOR  
 Note: STUDENTS IN THE LAS COLLEGE MAY USE NO MORE  
 THAN 9 CREDITS OF BCbio 490 AND 491 TOWARD GRADUATION  
 Department permission required.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

**BIOINFORMATICS AND COMPUTATIONAL BIOL**

INDEPENDENT STUDY BCB 490 1- 5 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS BCB 590 VAR. CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 1337005 ARRANGED  
 MEETS: MAY 20-AUG 9

COOPERATIVE EDUCATN BCB 598 R CREDIT  
 Prereq: PERMISSION OF THE PROGRAM CHAIR  
 1828005 ARRANGED  
 MEETS: MAY 20-AUG 9

GRAD RESEARCH ROTAT BCB 697 VAR. CREDITS  
 7827005 ARRANGED  
 MEETS: MAY 20-AUG 9

RESEARCH BCB 699 VAR. CREDITS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

**BIOLOGICAL SYSTEMS ENGINEERING**

SUMMER INTERNSHIP BSE 396 R CREDIT  
 Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING  
 CAREER SERVICES  
 Satisfactory-Fail Only.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

IND STUDY FOOD ENGR BSE 490F 1- 4 CREDITS  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

**BIOLOGICAL/PRE-MEDICAL ILLUSTRATION**

INDEPENDENT STUDY BPM I 490 1- 3 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTR & ADVISORY COMM  
 CHAIR ON REQ'D FORM IN ADVANCE OF SEMESTER OF ENROLMT  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

ILLUSTRATION INTERN BPM I 497 1- 6 CREDITS  
 Prereq: JR OR SR CLASSIFICATION IN BPM I, WRITTEN  
 APPROVAL OF SUPERVISING INSTR & ADVISORY COMM CHAIR  
 ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
 Satisfactory-Fail Only.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

**BIOLOGY**

INTRODUCTORY BIOL BIOL 101 3 CREDITS  
 2064005 A MTWRF 12:10-2:20  
 MEETS: JUNE 17-JULY 12  
 2064010 B ARRANGED  
 MEETS: MAY 20-AUG 9  
 Note: Course delivery is WWW  
 Section info: <http://www.elo.iastate.edu/biology-courses-information/>

HUMAN BIOLOGY BIOL 155 3 CREDITS  
 Prereq: HS BIOLOGY & CHEMISTRY OR BIOL 101  
 7079005 A ARRANGED  
 MEETS: MAY 20-AUG 9  
 Note: Course delivery is WWW

ENVIRONMNTL BIOLOGY BIOL 173 3 CREDITS  
 2015005 A ARRANGED  
 MEETS: MAY 20-AUG 9  
 Note: Course delivery is WWW  
 Section info: <http://www.elo.iastate.edu/biology-courses-information/>

## BIOLOGY (CONTINUED)

PRIN OF BIOLOGY I BIOL 211 3 CREDITS  
 Prereq: HIGH SCHOOL BIOLOGY AND CHEMISTRY OR  
 CREDIT OR ENROLLMENT IN CHEM 163 OR CHEM 177  
 9468005 A ARRANGED  
 MEETS: MAY 20-AUG 9  
 Note: Course delivery is WWW  
 Section info: <http://www.elo.iastate.edu/biology-courses-information/>  
 9468010 B MTWRF 9:50-11:50  
 MEETS: MAY 20-JUNE 14

PRIN OF BIOLOGY II BIOL 212 3 CREDITS  
 Prereq: 211  
 9469005 A ARRANGED  
 MEETS: MAY 20-AUG 9  
 Note: Course delivery is WWW

FUND HUMAN ANATOMY BIOL 255 3 CREDITS  
 7205005 A ARRANGED  
 MEETS: MAY 20-AUG 9  
 Note: Course delivery is WWW  
 HAEN K

FUND HUMAN ANAT LAB BIOL 255L 1 CREDIT  
 Prereq: CREDIT OR ENROLLMENT IN BIOL 255  
 6342005 1 TR 9:00-12:00  
 MEETS: MAY 20-JULY 12  
 Note: Materials fee \$90.00  
 6342010 2 TR 12:10-3:10  
 MEETS: MAY 20-JULY 12  
 Note: Materials fee \$90.00

ECOLOGY BIOL 312 4 CREDITS  
 Prereq: BIOL 211L AND BIOL 212L  
 2069005 A MTWR 9:50-11:05  
 MW 12:10-3:00  
 MEETS: MAY 20-JULY 12  
 Note: Materials, field trips &/or travel fee \$62.00  
 2069010 B MTWR 9:50-11:05  
 TR 12:10-3:00  
 MEETS: MAY 20-JULY 12  
 Note: Materials, field trips &/or travel fee \$62.00

PRINCIP OF GENETICS BIOL 313 3 CREDITS  
 Prereq: BIOL 211, BIOL 212  
 Note: CREDIT FOR ONLY ONE OF THE FOLLOWING MAY BE  
 APPLIED TOWARD GRADUATION: GEN 260, GEN/BIO 313/301  
 AND 313L/301L, GEN/AGRON 320  
 9472005 1 MTWRF 8:40-9:40  
 MEETS: MAY 20-JULY 12

BIOLOGICAL EVOLUTN BIOL 315 3 CREDITS  
 Prereq: 313  
 5604005 1 MTWR 11:00-12:15  
 MEETS: MAY 20-JULY 12  
 5604010 2 ARRANGED  
 MEETS: MAY 20-JULY 12  
 Note: Course delivery is WWW

IND STU BIOL RESRCH BIOL 490R 1- 6 CREDITS  
 Prereq: 8 CR IN BIOL & PERMISSION OF INSTRUCTOR  
 Note: NO MORE THAN 9 CREDITS IN BIOL 490 MAY BE APPLIED  
 TOWARD GRADUATION AND OF THOSE ONLY 6 CREDITS MAY BE  
 APPLIED TO THE MAJOR  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

UG TEACHNG EXPERNCE BIOL 491 1- 2 CREDITS  
 Prereq: PERMISSION OF SUPERVISING STAFF  
 Satisfactory-Fail Only.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

BIOLOGY INTERNSHIP BIOL 494 1- 3 CREDITS  
 Prereq: 8 CREDITS IN BIOLOGY, INSTRUCTOR PERMISSN  
 Note: Instructor permission required.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

UNDERGRAD SEMINAR BIOL 495 1- 3 CREDITS  
 Prereq: 15 CREDITS IN BIOLOGICAL SCIENCE;  
 PERMISSION OF INSTRUCTOR  
 Satisfactory-Fail Only.  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC BIOL 498 R CREDIT  
 Prereq: PERMISSION OF THE DEPARTMENT COOPERATIVE  
 EDUCATION COORDINATOR, JUNIOR CLASSIFICATION  
 4546005 ARRANGED  
 MEETS: MAY 20-AUG 9

**BIOMEDICAL SCIENCES**

INDEPENDENT STUDY B M S 490 1- 5 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS B M S 490H 1- 5 CREDITS  
 Prereq: INSTR PERMISSION, HONORS PROG MEMBERSHIP  
 Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
 \*\*\*\*\*  
 SEE DEPT FOR REFERENCE NUMBERS



## BIOMEDICAL SCIENCES

(CONTINUED)

RES MTHD BIOMED SCI B M S 501 3 CREDITS  
Prereq: GRADUATE CLASSIFICATION, PERMISSION OF A  
B M S FACULTY MEMBER  
6978005 ARRANGED  
MEETS: MAY 20-AUG 9

INTRO DNA TECHNIQS B M S 542A 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
7133005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JUNE 17-JULY 2

INTR PROTEIN TECHNQ B M S 542B 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
7134005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JULY 15-30

SPCL TOPICS ANATOMY B M S 590A 1- 7 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC PHYSIOLOGY B M S 590B 1- 7 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPIC PHARMACOL B M S 590C 1- 7 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT B M S 599 1- 3 CREDITS  
Prereq: ENROLLMENT IN B M S GRADUATE PROGRAM,  
PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOPICS ANATOMY B M S 690A 1- 5 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOPC PHYSIOLOGY B M S 690B 1- 5 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOPIC PHARMACOL B M S 690C 1- 5 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SEMINAR B M S 698B 1 CREDIT  
Prereq: ENROLLMENT IN B M S GRADUATE PROGRAM  
Satisfactory-Fail Only.  
6995005 ARRANGED  
MEETS: MAY 20-JULY 12

RESEARCH ANATOMY B M S 699A VAR. CREDITS  
Prereq: ENROLLMENT IN B M S GRADUATE PROGRAM  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH PHYSIOLOGY B M S 699B VAR. CREDITS  
Prereq: ENROLLMENT IN B M S GRADUATE PROGRAM  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH PHARMACOLOGY B M S 699C VAR. CREDITS  
Prereq: ENROLLMENT IN B M S GRADUATE PROGRAM  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH CELL BIOL B M S 699D VAR. CREDITS  
Prereq: ENROLLMENT IN B M S GRADUATE PROGRAM  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**BIORENEWABLE CHEMICALS**

SPL TOP K-12 SCI ED BR C 590K 2- 4 CREDITS  
9571005 1 ARRANGED  
MEETS: JUNE 12-JULY 26  
Note: SECTION 1 OFFERED FOR 4 CREDITS. TOPIC: THE  
RESEARCH EXPERIENCES FOR TEACHERS PROGRAM.  
9571010 2 ARRANGED  
MEETS: JULY 8-26  
Note: SECTION 2 IS OFFERED FOR 2 CREDITS. TOPIC:  
THE SUMMER ACADEMY FOR MIDDLE SCHOOL TEACHERS.  
9571015 3 ARRANGED  
MEETS: MAY 20-AUG 9

**BIORENEWABLE RESOURCES & TECHNOLOGY**

SPECIAL TOPICS BRT 590 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR OR MAJOR PROF  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

BIORENEW RSOURC LAB BRT 591L 1 CREDIT  
Prereq: PERMISSION OF STUDENT'S MAJOR PROFESSOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## BIORENEWABLE RESOURCES &amp; TECHNOLOGY

(CONTINUED)

RESEARCH BRT 699 VAR. CREDITS  
Prereq: PERMISSION OF STUDENT'S MAJOR PROFESSOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**BUSINESS ADMINISTRATION**

CMPTR COMPTNC BUSNS BUSAD 150 R CREDIT  
Prereq: PERMISSION OF INSTRUCTOR  
Satisfactory-Fail Only.  
8808005 A ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Course delivery is WWW

INTRO TO BUSINESS BUSAD 250 3 CREDITS  
Prereq: BUSAD 150 OR COM S 103  
8807005 A1 MTWRF 9:50-11:50  
MEETS: MAY 20-JUNE 14  
Note: SECTION A1 RESTRICTED TO BUSINESS COLLEGE  
UNDERGRADS ONLY  
8807010 A2 MTWRF 9:50-11:50  
MEETS: MAY 20-JUNE 14  
Note: SECTIONS A2 RESTRICTED TO UNDERGRADS IN  
COLLEGES OTHER THAN BUSINESS

EXP DOMESTIC INTERN BUSAD 291A 1- 3 CREDITS  
Prereq: WRITTEN APPROVAL OF SUPERVISING  
INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
PRIOR TO THE LEARNING EXPERIENCE  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC BUSAD 398 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT  
Satisfactory-Fail Only.  
6147005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Permission of coordinator required.

IND STDY ENTREPRENR BUSAD 490E 1- 3 CREDITS  
Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013  
Instructor permission required.  
3635005 ARRANGED  
MEETS: MAY 20-AUG 9

INDEPENDENT STUDY BUSAD 490G 1- 3 CREDITS  
Note: Instructor permission required.  
3634005 ARRANGED  
MEETS: MAY 20-AUG 9

INDEP STUDY HONORS BUSAD 490H 1- 3 CREDITS  
Prereq: ADMISSION TO THE BUSINESS HONORS PROGRAM  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

EXP DOMESTIC INTERNS BUSAD 491A 1- 3 CREDITS  
Prereq: PROFESSIONAL PROGRAM, 12 CREDITS FROM  
COLLEGE OF BUSINESS. WRITTEN APPROVAL OF SUPERVISING  
INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
PRIOR TO THE LEARNING EXPERIENCE.  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

EXP INT'L INTERNSHP BUSAD 491B 1- 3 CREDITS  
Prereq: PROFESSIONAL PROGRAM, 12 CREDITS FROM  
COLLEGE OF BUSINESS. WRITTEN APPROVAL OF SUPERVISING  
INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
PRIOR TO THE LEARNING EXPERIENCE.  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PRO EXPERIENTL LRNG BUSAD 591 1- 3 CREDITS  
Prereq: GRADUATE STANDING; WRITTEN APPROVAL OF  
SUPERVISING INSTRUCTOR AND DEPARTMENT CHAIR ON  
REQUIRED FORM PRIOR TO THE LEARNING EXPERIENCE  
7533015 DK ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Department permission required.  
7533005 HV ARRANGED  
MEETS: MAY 20-AUG 9  
Note: SEC HV OFFERED FOR 3 CREDITS  
Department permission required.  
7533010 JM ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Department permission required.  
7533025 MP ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Department permission required.

COOPERATIVE EDUCATN BUSAD 598 R CREDIT  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
Satisfactory-Fail Only.  
7906005 ARRANGED  
MEETS: MAY 20-AUG 9

## BUSINESS ADMINISTRATION (CONTINUED)

CREATIV COMP ACNTG BUSAD 599A 3 CREDITS  
Prereq: GRAD CLASSIF, PERMSN OF SUPERV COMM CHAIR  
Note: RESTRICTED TO BUSINESS COLLEGE GRADUATE STUDENTS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CREATIV COMP FINANC BUSAD 599C 3 CREDITS  
Prereq: GRAD CLASSIF, PERMSN OF SUPERV COMM CHAIR  
Note: RESTRICTED TO BUSINESS COLLEGE GRADUATE STUDENTS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CREATV COMP MANAGMT BUSAD 599E 3 CREDITS  
Prereq: GRAD CLASSIF, PERMSN OF SUPERV COMM CHAIR  
Note: RESTRICTED TO BUSINESS COLLEGE GRADUATE STUDENTS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CREATV COMP MARKTNG BUSAD 599F 3 CREDITS  
Prereq: GRAD CLASSIF, PERMSN OF SUPERV COMM CHAIR  
Note: RESTRICTED TO BUSINESS COLLEGE GRADUATE STUDENTS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CRTV CMP MGT INF SY BUSAD 599K 3 CREDITS  
Prereq: GRAD CLASSIF, PERMSN OF SUPERV COMM CHAIR  
Note: RESTRICTED TO BUSINESS COLLEGE GRADUATE STUDENTS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CREATV COMPONEN SCM BUSAD 599L 3 CREDITS  
Prereq: GRAD CLASSIF, PERMSN OF SUPERV COMM CHAIR  
Note: RESTRICTED TO BUSINESS COLLEGE GRADUATE STUDENTS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

RESEARCH BUSAD 699 3- 6 CREDITS  
Prereq: GRAD CLASSIF, PERMISSION OF MAJOR PROF  
Note: RESTRICTED TO BUSINESS COLLEGE GRADUATE STUDENTS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

**CHEMICAL ENGINEERING**

COOPERATIVE EDUC CH E 298 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING CAREER SERVICES  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CHEMICAL ENGR LAB I CH E 325 2 CREDITS  
Prereq: CH E 357, CREDIT OR ENROLLMENT IN CH E 381  
Note: Available for nonmajor graduate credit  
Instructor permission required 1st week.  
5699005 A MTWR 9:00-12:00  
MTWR 1:00-5:00  
MEETS: MAY 20-JUNE 14

FOREIGN STDY ORIENT CH E 391 3 CREDITS  
Prereq: CREDIT OR ENROLLMENT IN CH E 357 AND CH E 381 OR PERMISSION OF INSTRUCTOR  
Note: Meets international perspectives reqmt  
Instructor permission required 1st week.  
Satisfactory-Fail Only.  
7162800 SP ARRANGED JOLLS K  
MEETS: MAY 27-JUNE 28  
Note: SEC SP TAUGHT IN OVIEDO, SPAIN. TOPIC:  
CHEMICAL & BIOLOGICAL ENGINEERING. STUDY ABROAD  
SUMMER 2013  
Study Abroad Administrative Fee Applies

FOREIGN STUDY PROG CH E 392 4 CREDITS  
Prereq: CH E 391  
Note: CREDIT FOR GRADUATION FOR 391 ALLOWABLE ONLY UPON COMPLETION OF CH E 392  
Meets international perspectives reqmt  
Instructor permission required 1st week.  
2441800 SP ARRANGED JOLLS K  
MEETS: MAY 27-JUNE 28  
Note: SEC SP TAUGHT IN OVIEDO, SPAIN. TOPIC:  
CHEMICAL & BIOLOGICAL ENGINEERING. STUDY ABROAD  
SUMMER 2013  
Study Abroad Administrative Fee Applies

SUMMER INTERNSHIP CH E 396 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT EACH TIME TAKEN  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC CH E 398 R CREDIT  
Prereq: CH E 298, PERMISSION OF DEPARTMENT AND ENGINEERING CAREER SERVICES  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CHEMICAL ENGR LAB II CH E 426 2 CREDITS  
Prereq: CH E 325, CH E 358, CH E 382  
Note: CREDIT FOR EITHER CH E 426 OR CH E 427, BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION. RESTRICTED TO CH E SENIORS GRADUATING SUMMER 2013. Available for nonmajor graduate credit  
Instructor permission required 1st week.  
2448005 A MTWR 9:00-12:00  
MTWR 1:00-5:00  
MEETS: MAY 20-JUNE 14

## CHEMICAL ENGINEERING (CONTINUED)

UG RESRCH/IND STUDY CH E 490 1- 6 CREDITS  
Prereq: PERMISSION OF DEPARTMENT  
Note: NO MORE THAN 6 CREDITS OF CH E 490 MAY BE APPLIED TOWARDS GRADUATION AS TECHNICAL ELECTIVES  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS CH E 490H 1- 6 CREDITS  
Prereq: MEMBERSHIP IN THE HONORS PROGRAM  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN CH E 498 R CREDIT  
Prereq: CH E 398, PERMISSION OF DEPARTMENT AND ENGINEERING CAREER SERVICES  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY CH E 590 2- 6 CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SP TOP ADV CNTL THY CH E 595B 2- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013  
2472005 ARRANGED  
MEETS: MAY 20-AUG 9

CREATIVE COMPONENT CH E 599 VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY CH E 692 2- 6 CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ENGINEER INTERNSHIP CH E 697 R CREDIT  
Prereq: PERMISSION OF MAJOR PROF, GRAD CLASSIF  
2116005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH CH E 699 VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

**CHEMISTRY**

COLLEGE CHEM PREP CHEM 50 0 CREDITS  
Prereq: ONE YEAR OF HIGH SCHOOL ALGEBRA  
Note: CREDIT FOR CHEM 50 DOES NOT APPLY TOWARD GRADUATION. DEVELOPMENTAL MATH FEE APPLIES. SEE FEES INFO AT [HTTP://WWW.PUBLIC.IASTATE.EDU/~REGISTRAR/FEES/OTHFEE.SHTML](http://www.PUBLIC.IASTATE.EDU/~REGISTRAR/FEES/OTHFEE.SHTML).  
4523005 MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12  
Section info: <http://avogadro.chem.iastate.edu/chem50/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem50/syllabus.html>

COLLEGE CHEMISTRY I CHEM 163 4 CREDITS  
Prereq: 1 YR H.S. ALGEBRA AND GEOMETRY AND EITHER CHEM 50 OR 1 YR H.S. CHEMISTRY; AND CREDIT OR ENROLLMENT IN 163L  
Note: MUST BE ACCOMPANIED BY CHEM 163L UNLESS STUDENT ALREADY HAS CREDIT IN 163L. CREDIT FOR ONLY ONE OF THE FOLLOWING COURSES (AND ACCOMPANYING LAB) MAY BE APPLIED TOWARD GRADUATION: CHEM 163, CHEM 167, CHEM 177, CHEM 201  
2489005 1 MTWRF 12:10-1:10  
TR 1:20-2:20  
MEETS: MAY 20-JULY 12  
Section info: <http://avogadro.chem.iastate.edu/chem163/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem163/syllabus.html>

2489010 2 MTWRF 12:10-1:10  
TR 1:20-2:20  
MEETS: MAY 20-JULY 12  
Section info: <http://avogadro.chem.iastate.edu/chem163/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem163/syllabus.html>

GENERAL CHEM LAB I CHEM 163L 1 CREDIT  
Prereq: CREDIT OR ENROLLMENT FOR CREDIT IN CHEM 163  
Note: MUST BE ACCOMPANIED BY CHEM 163 UNLESS STUDENT ALREADY HAS CREDIT IN 163. CREDIT FOR ONLY ONE OF THE FOLLOWING MAY BE APPLIED TOWARD GRADUATION: CHEM 163L, CHEM 167L, CHEM 177L, CHEM 177N, CHEM 201L  
2490005 1 MW 8:40-11:40  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem163l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem163l/syllabus.html>

2490010 2 MW 8:40-11:40  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem163l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem163l/syllabus.html>

## CHEMISTRY

(CONTINUED)

GENERAL CHEMISTRY I CHEM 177 4 CREDITS  
Prereq: MATH 140 OR H.S. EQUIVALENT, CHEM 50 OR  
1 YR H.S. CHEM, CR OR ENROLLMENT IN CHEM 177L.  
CHEM AND BIOCHEM MAJORS MAY CONSIDER TAKING 201.  
Note: CREDIT FOR ONLY ONE OF THE FOLLOWING COURSES  
(AND ACCOMPANYING LAB) MAY BE APPLIED TOWARD  
GRADUATION: CHEM 163, CHEM 167, CHEM 177, CHEM 201

2495005 A1 MTWRF 9:50-10:50  
TR 11:00-12:00  
MEETS: MAY 20-JULY 12  
Section info: <http://avogadro.chem.iastate.edu/chem177/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem177/syllabus.html>

2495010 A2 MTWRF 9:50-10:50  
TR 11:00-12:00  
MEETS: MAY 20-JULY 12  
Section info: <http://avogadro.chem.iastate.edu/chem177/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem177/syllabus.html>

2495015 A3 MTWRF 9:50-10:50  
TR 11:00-12:00  
MEETS: MAY 20-JULY 12  
Section info: <http://avogadro.chem.iastate.edu/chem177/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem177/syllabus.html>

2495020 A4 MTWRF 9:50-10:50  
TR 11:00-12:00  
MEETS: MAY 20-JULY 12  
Section info: <http://avogadro.chem.iastate.edu/chem177/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem177/syllabus.html>

LAB GENERAL CHEM I CHEM 177L 1 CREDIT  
Prereq: CREDIT OR ENROLLMENT IN 177  
Note: CHEM 177L MUST BE ACCOMPANIED BY CHEM 177 UNLESS  
STUDENT ALREADY HAS CREDIT IN 177. CREDIT FOR ONLY  
ONE OF THE FOLLOWING COURSES MAY BE APPLIED TOWARD  
GRADUATION: CHEM 163L, CHEM 167L, CHEM 177L,  
CHEM 177N, CHEM 201L.

2496005 1 MW 11:00-2:00  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem177l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem177l/syllabus.html>

2496010 2 MW 11:00-2:00  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem177l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem177l/syllabus.html>

2496015 3 TR 12:10-3:10  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem177l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem177l/syllabus.html>

2496020 4 TR 12:10-3:10  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem177l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem177l/syllabus.html>

GENERAL CHEMISTRY II CHEM 178 3 CREDITS  
Prereq: CHEM 177, CHEM 177L  
Note: TESTOUT NOT AVAILABLE TO STUDENTS ALSO REGISTERED

2499005 1 MTWR 11:00-12:00  
F 11:00-12:00  
MEETS: MAY 20-JULY 12  
Section info: <http://avogadro.chem.iastate.edu/chem178/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem178/syllabus.html>

2499010 2 MTWR 11:00-12:00  
F 11:00-12:00  
MEETS: MAY 20-JULY 12  
Section info: <http://avogadro.chem.iastate.edu/chem178/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem178/syllabus.html>

2499015 3 MTWR 11:00-12:00  
F 11:00-12:00  
MEETS: MAY 20-JULY 12  
Section info: <http://avogadro.chem.iastate.edu/chem178/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem178/syllabus.html>

## CHEMISTRY

(CONTINUED)

LAB GENERAL CHEM II CHEM 178L 1 CREDIT  
Prereq: CHEM 177L AND CREDIT OR ENROLLMENT  
IN CHEM 178

2500005 1 TR 12:10-3:10  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem178l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem178l/syllabus.html>

2500010 2 TR 12:10-3:10  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem178l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem178l/syllabus.html>

2500015 3 TR 12:10-3:10  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem178l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem178l/syllabus.html>

ELEM ORGANIC CHEM CHEM 231 3 CREDITS  
Prereq: 163,163L, OR 177,177L; CR OR ENR IN 231L  
Note: CREDIT FOR EITHER CHEM 231 OR BBMB 221, BUT NOT  
BOTH, MAY BE APPLIED TOWARD GRADUATION. CREDIT FOR  
EITHER CHEM 231 (AND 231L) OR CHEM 331 (AND 331L),  
BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION.

2504005 MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12  
Section info: <http://http://avogadro.chem.iastate.edu/chem231/>  
Syllabus: <http://http://avogadro.chem.iastate.edu/chem231/syllabus.html>

ELEM ORGNC CHEM LAB CHEM 231L 1 CREDIT  
Prereq: CREDIT OR ENROLLMENT FOR CREDIT IN 231;  
163L OR 177L  
Note: CREDIT FOR EITHER CHEM 331L OR CHEM 231L,  
BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION.  
CREDIT FOR EITHER CHEM 231L OR CHEM 331L, BUT NOT  
BOTH, MAY BE APPLIED TOWARD GRADUATION.

7900005 1 MW 9:50-12:50  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem231l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem231l/syllabus.html>

7900010 2 TR 9:50-12:50  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem231l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem231l/syllabus.html>

7900015 3 MW 1:20-4:20  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$80.00  
Section info: <http://avogadro.chem.iastate.edu/chem231l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem231l/syllabus.html>

FRESH&SOPH RESEARCH CHEM 299 VAR. CREDITS  
Prereq: PERMISSION OF STAFF MEMBER WITH WHOM  
STUDENT PROPOSES TO WORK  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ORGANIC CHEMISTRY I CHEM 331 3 CREDITS  
Prereq: CHEM 178 OR CHEM 201, ENROLLMENT IN CHEM  
331L HIGHLY RECOMMENDED  
Note: CREDIT FOR EITHER CHEM 331 (AND 331L) OR  
CHEM 231 (AND 231L), BUT NOT BOTH, MAY BE APPLIED  
TOWARD GRADUATION

2516005 MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12  
Available for nonmajor graduate credit  
Section info: <http://avogadro.chem.iastate.edu/chem331/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem331/syllabus.html>

LAB ORGANIC CHEM I CHEM 331L 1 CREDIT  
Prereq: CREDIT OR ENROLLMENT FOR CREDIT IN CHEM  
331, CHEM 177L  
Note: CREDIT FOR EITHER CHEM 331L OR CHEM 231L,  
BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION

5270005 1 MW 9:50-12:50  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$90.00  
Section info: <http://avogadro.chem.iastate.edu/chem331l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem331l/syllabus.html>

5270010 2 TR 9:50-12:50  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$90.00  
Section info: <http://avogadro.chem.iastate.edu/chem331l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem331l/syllabus.html>

## CHEMISTRY

(CONTINUED)

LAB ORGANIC CHEM I CHEM 331L 1 CREDIT  
5270015 3 MW 1:20-4:20  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$90.00  
Section info: <http://avogadro.chem.iastate.edu/chem331/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem331/syllabus.html>

ORGANIC CHEMISTRY II CHEM 332 3 CREDITS  
Prereq: CHEM 331, ENROLLMENT IN CHEM 332L HIGHLY RECOMMENDED  
Note: Available for nonmajor graduate credit  
2517005 MTWRF 12:10-1:10  
MEETS: MAY 20-JULY 12  
Section info: <http://avogadro.chem.iastate.edu/chem332/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem332/syllabus.html>

LAB ORGANIC CHEM II CHEM 332L 1 CREDIT  
Prereq: CHEM 331L, CREDIT OR ENROLLMENT FOR CREDIT IN CHEM 332  
Note: CREDIT IN CHEM 332L OR CHEM 334L, BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION  
5272005 1 TR 8:40-11:40  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$90.00  
Section info: <http://avogadro.chem.iastate.edu/chem332l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem332l/syllabus.html>

5272010 2 TR 1:20-4:20  
MEETS: MAY 20-JULY 12  
Note: Materials and equipment use fee \$90.00  
Section info: <http://avogadro.chem.iastate.edu/chem331l/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem331l/syllabus.html>

UNDERGRAD RESEARCH CHEM 399 VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR WITH WHOM STUDENT PROPOSES TO WORK AND JR OR SR CLASSIFICATION  
Note: NO MORE THAN 6 TOTAL CREDITS OF CHEM 399 AND CHEM 499 MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY CHEM 490 VAR. CREDITS  
Prereq: COMPLETION OF 6 CREDITS IN CHEM AT THE 300 LEVEL OR HIGHER AND INSTRUCTOR PERMISSION  
Note: NO MORE THAN 9 CREDITS OF CHEM 490 MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN CHEM 498 R CREDIT  
Prereq: PERMISSION OF THE DEPT COOPERATIVE EDUCATION COORDINATOR; SENIOR CLASSIFICATION  
4841005 ARRANGED  
MEETS: MAY 20-AUG 9  
Section info: <http://avogadro.chem.iastate.edu/chem498/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem498/syllabus.html>

SENIOR RESEARCH CHEM 499 2- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR WITH WHOM STUDENT PROPOSES TO WORK; B AVG IN ALL CHEMISTRY, PHYSICS, AND MATHEMATICS COURSES  
Note: NO MORE THAN 6 TOTAL CREDITS OF CHEM 499 AND CHEM 399 MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

NONTHESIS RESEARCH CHEM 599 VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR CONCERNED  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SEMINR INORGNC CHEM CHEM 600 1 CREDIT  
Prereq: PERMISSION OF INSTRUCTOR  
2563005 ARRANGED  
MEETS: MAY 20-AUG 9  
Section info: <http://avogadro.chem.iastate.edu/chem600/>  
Syllabus: <http://avogadro.chem.iastate.edu/chem600/syllabus.html>

RESEARCH CHEM 699 VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**CIVIL ENGINEERING**

COOPERATIVE EDUC C E 298 R CREDIT  
Prereq: PERMISSION OF DEPT & ENGR CAREER SERVICES  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## CIVIL ENGINEERING

(CONTINUED)

PRIN ENVIRONMT ENGR C E 326 3 CREDITS  
Prereq: CHEM 177 OR 178, MATH 166, CREDIT OR ENROLLMENT IN E M 378  
2284005 1 MTWR 4:10-5:00  
TR 2:10-4:00  
MEETS: JUNE 17-AUG 9

STRUCTURAL ANALYS I C E 332 3 CREDITS  
Prereq: E M 324  
Note: Available for nonmajor graduate credit  
2285005 1 MWF 7:30-8:30  
TR 7:30-9:40  
MEETS: MAY 20-JULY 12

STRUCT STEEL DSGN I C E 333 3 CREDITS  
Prereq: 332, E M 327  
Note: Available for nonmajor graduate credit  
2286005 1 MTR 9:50-10:50  
WF 8:40-10:50  
MEETS: MAY 20-JULY 12

REIN CONCRETE DSN I C E 334 3 CREDITS  
Prereq: 332, E M 327  
Note: Available for nonmajor graduate credit  
2287005 1 MWF 7:30-8:30  
TR 7:30-9:40  
MEETS: MAY 20-JULY 12

GEOTECHNICL ENGNRNG C E 360 3 CREDITS  
Prereq: E M 324, CREDIT OR ENROLLMENT IN GEOL 201  
Note: Available for nonmajor graduate credit  
2291005 1 MW 2:20-3:10  
F 2:20-4:10  
MW 3:20-6:20PM  
MEETS: JUNE 17-AUG 9  
Note: Materials fee \$40.00  
2291010 2 MW 12:10-1:10  
F 11:00-12:40  
TR 2:10-5:10  
MEETS: MAY 20-JULY 12  
Note: Materials fee \$40.00

DESIGN OF CONCRETES C E 382 3 CREDITS  
Prereq: CREDIT OR ENROLLMENT IN 360  
Note: Available for nonmajor graduate credit  
2294005 1 MW 11:00-12:00  
MW 12:00-1:00  
TR 11:00-2:00  
MEETS: MAY 20-JULY 12  
Note: Materials fee \$40.00

SUMMER INTERNSHIP C E 396 R CREDIT  
Prereq: PERMISSION OF DEPT AND ENGR CAREER SERVICES, COMPLETION OF 2 TERMS IN RESIDENCE IN CIVIL ENGR, EMPLOYMENT IN CIVIL ENGR OR RELATED FIELD  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC C E 398 R CREDIT  
Prereq: 298, PERMISSION OF DEPARTMENT AND ENGR CAREER SERVICES  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY C E 490 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS C E 490H 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, MEMBERSHIP IN THE HONORS PROGRAM  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC C E 498 R CREDIT  
Prereq: 398, PERMISSION OF DEPARTMENT AND ENGINEERING CAREER SERVICES  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS C E 590 1- 5 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP ADV BLDG CN C E 594L 1- 3 CREDITS  
Prereq: CON E 322, CON E 340 OR C E 306, AND PERMISSION OF INSTRUCTOR  
Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013  
2186005 TR 9:50-12:40  
MEETS: MAY 20-JULY 12

CREATIVE COMPONENT C E 599 1- 3 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADVANCED TOPICS C E 690 1- 3 CREDITS  
Prereq: PRE-ENROLLMENT CONTRACT REQUIRED  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## CIVIL ENGINEERING

(CONTINUED)

ENGINEER INTERNSHIP C E 697 R CREDIT  
 Prereq: PERMISSION OF COOP ADVISER, GRAD CLASSIF  
 Note: Department permission required.  
 Satisfactory-Fail Only.  
 7416005 ARRANGED  
 MEETS: MAY 20-AUG 9

RESEARCH C E 699 VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**CLASSICAL STUDIES**

STUDY ABROAD GREECE CL ST 395 2- 6 CREDITS  
 Prereq: 394  
 Note: PERMISSION OF INSTRUCTOR REQUIRED TO ADD.  
 PROCESS APPROVED ADD SLIP IN 10 ENRL SC.  
 Meets international perspectives reqmt  
 5120800 GR ARRANGED MOOK M  
 MEETS: MAY 14-31  
 Note: SEC GR TAUGHT IN GREECE; ATHENS, MYCENAE, RHODES,  
 CRETE, THERA. THE ARCHAEOLOGY OF GREECE. STUDY  
 ABROAD SUMMER 2013  
 Study Abroad Administrative Fee Applies  
 5120805 G2 ARRANGED MOOK M  
 MEETS: JUNE 1-JULY 20  
 Note: SEC G2 TAUGHT IN GREECE; PACHEIA AMMOS AND KAVOU  
 SI, CRETE. TOPIC: THE ARCHAEOLOGY OF GRESE, SEC. 2  
 (EXCAVATION) STUDY ABROAD SUMMER 2013  
 Study Abroad Administrative Fee Applies

ROMAN CIVILIZATION CL ST 403 3 CREDITS  
 Prereq: SOPHOMORE CLASSIFICATION  
 Note: COURSE RESTRICTED TO SOPHOMORES AND ABOVE  
 Available for nonmajor graduate credit  
 2590005 MTWRF 9:50-11:50  
 MEETS: JULY 15-AUG 9

INDEPENDENT STUDY CL ST 490 1- 6 CREDITS  
 Prereq: 7 CR IN CL ST AT 200 LEVEL OR HIGHER;  
 PERMISSION OF THE PROGRAM CHAIR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**COMMUNICATION STUDIES**

INTRO COMMUNIC STDI COMST 101 3 CREDITS  
 7918005 MTWRF 2:30-4:30  
 MEETS: MAY 20-JUNE 14

INTRO INTERPRS COMM COMST 102 3 CREDITS  
 8105005 1 MTWRF 9:00-11:50  
 MEETS: MAY 20-JUNE 7

HUMAN COMMUNIC THRY COMST 301 3 CREDITS  
 Prereq: COMST 101  
 6593005 MTWRF 12:10-2:10  
 MEETS: MAY 20-JUNE 14

INTERCULTURAL COMM COMST 310 3 CREDITS  
 Prereq: COMST 101, COMST 102, COMST 203, COMST  
 301  
 Note: Meets international perspectives reqmt  
 7934005 1 MTWRF 8:40-10:40  
 MEETS: MAY 20-JUNE 14

GENDER & COMMUNICTN COMST 323 3 CREDITS  
 Note: Meets U.S. diversity reqmt  
 Available for nonmajor graduate credit  
 3339005 A MTWRF 12:10-2:20  
 MEETS: MAY 20-JUNE 14  
 3339010 B MTWRF 9:50-12:00  
 MEETS: JUNE 17-JULY 12

INDEPENDENT STUDY COMST 490 1- 3 CREDITS  
 Prereq: 9 CREDITS IN COMST, JUNIOR CLASSIFICATION  
 Note: Instructor permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PROFESSNL INTERNSHP COMST 497 1- 3 CREDITS  
 Note: Instructor permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**COMMUNITY & REGIONAL PLANNING**

PRACTICUM C R P 330 1- 3 CREDITS  
 Prereq: MAJOR IN COMMUNITY AND REGIONAL PLANNING  
 Satisfactory-Fail Only.  
 2386005 ARRANGED  
 MEETS: MAY 20-AUG 9

PRO WORK EXPERIENCE C R P 410 R CREDIT  
 Prereq: PERMISSION OF DEPARTMENT CHAIR  
 2710005 ARRANGED  
 MEETS: MAY 20-AUG 9

## COMMUNITY &amp; REGIONAL PLANNING

(CONTINUED)

INDEPENDENT STUDY C R P 490 1- 3 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTRUCTOR AND  
 DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS C R P 490H 1- 3 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTRUCTOR AND  
 DEPARTMENT CHAIR ON REQUIRED FORM. MEMBERSHIP IN  
 UNIVERSITY HONORS PROGRAM.  
 Note: RESTRICTED TO MEMBERS OF UNIV HONORS PROGRAM ONLY  
 Instructor permission required 1st week.  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PRO WORK EXPERIENCE C R P 510 R CREDIT  
 Prereq: PERMISSION OF DEPARTMENT CHAIR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PRACTICUM C R P 530 1- 3 CREDITS  
 Prereq: GRADUATE CLASSIFICATION IN C R P  
 2405005 Satisfactory-Fail Only.  
 ARRANGED  
 MEETS: MAY 20-AUG 9

SPL TP PLAN LAW,ADM C R P 590A 1- 3 CREDITS  
 Prereq: GRAD CLASSIFICATION AND WRITTEN APPROVAL  
 OF INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC ECON DEVEL C R P 590B 1- 3 CREDITS  
 Prereq: GRAD CLASSIFICATION AND WRITTEN APPROVAL  
 OF INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC URBAN DSGN C R P 590C 1- 3 CREDITS  
 Prereq: GRAD CLASSIFICATION AND WRITTEN APPROVAL  
 OF INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 Field trips & travel fee \$25.00-\$800.00  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP HOUS&URB RV C R P 590D 1- 3 CREDITS  
 Prereq: GRAD CLASSIFICATION AND WRITTEN APPROVAL  
 OF INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP ENVIRN PLAN C R P 590H 1- 3 CREDITS  
 Prereq: GRAD CLASSIFICATION AND WRITTEN APPROVAL  
 OF INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP TRANSPRTN PL C R P 590I 1- 3 CREDITS  
 Prereq: GRAD CLASSIFICATION AND WRITTEN APPROVAL  
 OF INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC INT'L PLAN C R P 590N 1- 3 CREDITS  
 Prereq: GRAD CLASSIFICATION AND WRITTEN APPROVAL  
 OF INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TP SPATL AN MTH C R P 590O 1- 3 CREDITS  
 Prereq: GRAD CLASSIFICATION AND WRITTEN APPROVAL  
 OF INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TP SM TOWN PLAN C R P 590P 1- 3 CREDITS  
 Prereq: GRAD CLASSIFICATION AND WRITTEN APPROVAL  
 OF INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TP DIVRS&EQ PLN C R P 590Q 1- 3 CREDITS  
 Prereq: GRAD CLASSIFICATION AND WRITTEN APPROVAL  
 OF INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS GIS C R P 590R 1- 3 CREDITS  
 Prereq: GRAD CLASSIFICATION AND WRITTEN APPROVAL  
 OF INSTRUCTOR AND DEPARTMENT CHAIR ON REQUIRED FORM  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PRO PLANNING REPORT C R P 599 VAR. CREDITS  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## COMMUNITY &amp; REGIONAL PLANNING (CONTINUED)

RESEARCH C R P 699 VAR. CREDITS

Note: Instructor permission required.

Satisfactory-Fail Only.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**COMPUTER ENGINEERING**

DIG LOGC,PROCSR,P I CPR E 281 4 CREDITS

Prereq: SOPHOMORE CLASSIFICATION

7321005 A MTWRF 9:50-10:50

TR 2:30-5:30

MEETS: MAY 20-JULY 12

7321010 B MTWRF 9:50-10:50

MW 2:30-5:30

MEETS: MAY 20-JULY 12

EMBEDDE SYS I:INTRO CPR E 288 4 CREDITS

Prereq: 281, COM S 207 OR 227

3364005 A MTWRF 8:40-9:40

TR 12:10-2:10

MEETS: MAY 20-JULY 12

3364010 B MTWRF 8:40-9:40

MW 12:10-2:10

MEETS: MAY 20-JULY 12

COOPERATIVE EDUCATN CPR E 298 R CREDIT

Prereq: PERMSSN OF DEPTMT AND ENGINEERING CAREER SERVICES

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUMMER INTERNSHIP CPR E 396 R CREDIT

Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING CAREER SERVICES

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN CPR E 398 R CREDIT

Prereq: 298, PERMSSN OF DEPARTMENT AND ENGINEERING CAREER SERVICES

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY CPR E 490 VAR. CREDITS

Prereq: SENIOR CLASSIFICATION IN COMPUTER ENGR

Note: Department permission required 1st week.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

HONORS INDEP STUDY CPR E 490H VAR. CREDITS

Prereq: SENIOR CLASSIFICATION IN COMPUTER ENGR

MEMBERSHIP IN UNIV HONORS PROGRAM

Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY

Department permission required 1st week.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN CPR E 498 R CREDIT

Prereq: 398, PERMSSN OF DEPARTMENT AND ENGINEERING CAREER SERVICES

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS CPR E 590 1- 6 CREDITS

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT CPR E 599 VAR. CREDITS

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ENGINEERG INTERNSHP CPR E 697 R CREDIT

Satisfactory-Fail Only.

7420005 ARRANGED

MEETS: MAY 20-AUG 9

Note: Department permission required.

RESEARCH CPR E 699 VAR. CREDITS

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**COMPUTER SCIENCE**

COMPUTER APPLICATNS COM S 103 4 CREDITS

2673005 1 ARRANGED

MEETS: JUNE 17-AUG 9

Note: Course delivery is WWW

2673010 2 ARRANGED

MEETS: JUNE 17-AUG 9

Note: Course delivery is WWW

2673015 3 ARRANGED

MEETS: JUNE 17-AUG 9

Note: Course delivery is WWW

Section info: <http://www.cs.iastate.edu/~cs103w>

APP COMPUTER PROGRM COM S 107 3 CREDITS

2674005 A ARRANGED

MEETS: MAY 20-JULY 12

Note: Course delivery is WWW

## COMPUTER SCIENCE (CONTINUED)

FUND CPTR PROGRAMNG COM S 207 3 CREDITS

Prereq: MATH 150 OR PLACEMENT INTO MATH

140/141/142 OR HIGHER

Note: CREDIT FOR EITHER COM S 207 OR COM S 227, BUT

NOT BOTH, MAY BE APPLIED TOWARD GRADUATION

9235005 A MTWRF 11:00-12:00 ATUKORALA N

TR 1:20-2:20

MEETS: MAY 20-JULY 12

INTRO DATA STRUCTUR COM S 228 3 CREDITS

Prereq: C- OR BETTER IN 227, CREDIT OR ENROLLMENT

IN MATH 165

9238005 A MTWRF 11:00-12:00 CASE A

MW 2:30-3:30

MEETS: MAY 20-JULY 12

INDEPENDENT STUDY COM S 290 VAR. CREDITS

Prereq: PERMISSION OF INSTRUCTOR

Note: Instructor permission required 1st week.

Satisfactory-Fail Only.

2680005 ARRANGED

MEETS: MAY 20-AUG 9

DSN&amp;ANALYSIS ALGRTH COM S 311 3 CREDITS

Prereq: 228 WITH C- OR BETTER, MATH 166,

ENGL 250, AND COM S 330 OR CPR E 310

Note: Available for nonmajor graduate credit

2683005 A MTWRF 8:40-9:40 MITRA S

TR 11:00-12:00

MEETS: MAY 20-JULY 12

COOPERATIVE EDUCATN COM S 398 R CREDIT

Prereq: PERMISSION OF DEPARTMENT CHAIR

2691005 ARRANGED

MEETS: MAY 20-AUG 9

INDEPENDENT STUDY COM S 490 VAR. CREDITS

Prereq: 6 CR. IN COM S, PERMISSION OF INSTRUCTOR

Note: NO MORE THAN 9 CREDITS OF COM S 490 MAY BE

APPLIED TOWARD GRADUATION

Instructor permission required 1st week.

Satisfactory-Fail Only.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS COM S 590 VAR. CREDITS

Prereq: PERMISSION OF INSTRUCTOR

Satisfactory-Fail Only.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

GRADUATE INTERNSHIP COM S 598 R CREDIT

Prereq: GRADUATE CLASSIFICATION

5627005 ARRANGED

MEETS: MAY 20-AUG 9

CREATIVE COMPONENT COM S 599 1- 3 CREDITS

Satisfactory-Fail Only.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SEMINAR COM S 610 VAR. CREDITS

Satisfactory-Fail Only.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH COM S 699 VAR. CREDITS

Prereq: APPROVAL OF INSTRUCTOR

Note: Instructor permission required 1st week.

Satisfactory-Fail Only.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**CONSTRUCTION ENGINEERING**

COOPERATIVE EDUCATN CON E 298 R CREDIT

Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING

CAREER SERVICES

Satisfactory-Fail Only.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ENGINEERING LAW CON E 380 3 CREDITS

Prereq: JUNIOR CLASSIFICATION

Note: Available for nonmajor graduate credit

5102005 1 MTWRF 9:50-10:50

MEETS: MAY 20-JULY 12

SUMMER INTERNSHIP CON E 396 R CREDIT

Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING

CAREER SERVICES

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN CON E 398 R CREDIT

Prereq: 298, PERMISSION OF DEPT AND ENGINEERING

CAREER SERVICES

Satisfactory-Fail Only.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY CON E 490 1- 5 CREDITS

Prereq: PERMISSION OF INSTRUCTOR

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## CONSTRUCTION ENGINEERING

(CONTINUED)

COOPERATIVE EDUCATN CON E 498 R CREDIT  
 Prereq: 398, PERMISSION OF DEPT AND ENGINEERING  
 CAREER SERVICES  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**CRIMINAL JUSTICE STUDIES**

PHILOSOPHY OF LAW CJ ST 332 3 CREDITS  
 Prereq: PHIL 201 OR 230  
 Note: Available for nonmajor graduate credit  
 Instructor permission required 1st week.  
 2578005 A MTWRF 8:40-10:40  
 MEETS: MAY 20-JUNE 14

CRIM & JUV JUST PRAC CJ ST 460 3-12 CREDITS  
 Prereq: JR OR SR CLASSIFICATION; PERMISSION  
 OF CJ ST COORDINATOR; MAJOR OR MINOR IN SOC,  
 OR CJ ST MINOR  
 Note: NO MORE THAN 12 CREDITS OF FIELD EXPERIENCE  
 (SOC 454 & SOC/CJ ST 460) MAY BE APPLIED TOWARD  
 GRADUATION. NO CREDITS IN SOC/CJ ST 460 MAY BE USED  
 TO SATISFY MINIMUM SOCIOLOGY REQUIREMENTS FOR  
 SOCIOLOGY MAJORS.  
 Satisfactory-Fail Only.  
 2581005 A ARRANGED  
 MEETS: MAY 20-AUG 9

**CURRICULUM & INSTRUCTION**

PK-6 CLSRM TECNOLGI C I 201 3 CREDITS  
 3015005 1 MWF 8:40-9:40  
 TR 8:40-10:40  
 MEETS: JUNE 10-AUG 2  
 Note: Materials and equipment use fee \$25.00

SOC FOUND U.S. EDUC C I 204 3 CREDITS  
 6278005 A MTWR 9:50-12:00  
 MEETS: MAY 20-JUNE 20

RDG&LANG ARTS K-3RD C I 377 4 CREDITS  
 Prereq: C I 245, SP ED 250, HD FS 240, HD FS 226  
 (EL ED MAJORS) OR 221 (ECE MAJORS); CONCURRENT ENR IN  
 448, 468A, 468C (EL ED) OR 438, 468F, 468G, SP ED  
 368, HD FS 343 (ECE), ADMISSION TO TEACHER ED PROGRAM  
 Note: COURSE RESTRICTED TO EL ED MAJORS WITH FULL  
 ADMISSION TO THE UNIVERSITY TEACHER EDUCATION  
 PROGRAM. TAKE CONCURRENTLY WITH 468A,448,468C.  
 2066005 1 MTWR 8:45-12:25  
 MEETS: MAY 13-JUNE 6

RDG&LANG ARTS 4TH-6 C I 378 4 CREDITS  
 Prereq: 377; CONCURRENT ENRLMNT IN 449,468B,468D  
 Note: TAKE CONCURRENTLY WITH 468D,378,468B.  
 RESTRICTED TO STUDENTS WITH FULL ADMISSION  
 TO THE UNIVERSITY TEACHER EDUCATION PROGRAM  
 Department permission required 1st week.  
 2078005 1 MTWR 8:00-11:40  
 MEETS: MAY 13-JUNE 6

INTRO MLTICULTRL FND C I 406 3 CREDITS  
 Prereq: 201 OR 202, 332 OR 333, JUNIOR  
 CLASSIFICATION, ADMISSION TO TEACHER EDUC PROGRAM  
 Note: RESTRICTED TO STUDENTS WITH FULL ADMISSION  
 TO THE UNIVERSITY TEACHER EDUCATION PROGRAM  
 Meets U.S. diversity reqmt  
 6292005 1 MTWRF 3:00-5:20  
 MEETS: MAY 20-JUNE 14

PRINCIPLS SECNDY ED C I 426 3 CREDITS  
 Prereq: 202, SR CLASSIFICATION, ADMISSION TO  
 TEACHER EDUCATION PROGRAM  
 Note: RESTRICTED TO STUDENTS WITH FULL ADMISSION  
 TO THE UNIVERSITY TEACHER EDUCATION PROGRAM  
 6293005 1 MTWRF 1:20-3:40  
 MEETS: MAY 20-JUNE 21

TCHG OF SOC STUDIES C I 443 3 CREDITS  
 Prereq: 377  
 Note: COURSE RESTRICTED TO EL ED, ECE MAJORS  
 ONLY  
 Department permission required 1st week.  
 3258005 MTWRF 9:00-11:30  
 MEETS: JULY 8-AUG 1

TCHNG CHILDREN MATH C I 448 3 CREDITS  
 Prereq: MATH 195, 196, CONCURRENT ENROLLMENT IN  
 C I 377, 468A, 468C  
 Note: COURSE RESTRICTED TO EL ED MAJORS ONLY.  
 MUST BE TAKEN CONCURRENTLY WITH 468C,377,468A.  
 Department permission required 1st week.  
 3260005 1 MTWRF 1:10-3:30  
 MEETS: MAY 13-JUNE 7

## CURRICULUM &amp; INSTRUCTION

(CONTINUED)

TEACHING OF SCIENCE C I 449 3 CREDITS  
 Prereq: 377, CONCURRENT ENROLLMENT IN 378, 468B  
 468D, JUNIOR CLASSIFICATION  
 Note: COURSE RESTRICTED TO EL ED MAJORS ONLY.  
 MUST BE TAKEN CONCURRENTLY WITH 468D,378,468B.  
 Department permission required 1st week.  
 3261005 1 MTWRF 12:10-2:30  
 MEETS: MAY 13-JUNE 7

EMERG TOPC DGTL LRN C I 454 1- 3 CREDITS  
 Prereq: 201 OR 202  
 Note: COURSE ONLY OFFERED FOR 1 CREDIT SUMMER 2013  
 9436005 1 ARRANGED  
 MEETS: JUNE 10-21

RDNG&LANGUAG TCHNOL C I 456 3 CREDITS  
 Prereq: 201 OR 202, 377  
 Note: Department permission required 1st week.  
 3257005 1 MTWRF 8:00-12:00  
 MEETS: MAY 17-31

PRA PRIMRY RDG&LANG C I 468A 1 CREDIT  
 Prereq: 245,250,268; ADMISSION TO TEACHER ED PROG  
 Note: COURSE RESTRICTED TO EL ED MAJORS WITH FULL  
 ADMISSION TO THE UNIVERSITY TEACHER EDUCATION  
 PROGRAM. TAKE CONCURRENTLY WITH 377,448,468C.  
 Department permission required 1st week.  
 Satisfactory-Fail Only.

3265005 1 MTWRF 7:30-12:30  
 MEETS: JUNE 7-JULY 5  
 Note: Professional support, field trips &/or  
 travel fee \$52.00

PRA RDG&LANG INTRMD C I 468B 1 CREDIT  
 Prereq: 245,250,268; ADMISSION TO TEACHER ED PROG  
 Note: RESTRICTED TO EL ED MAJORS WITH FULL ADMISSION  
 TO THE UNIVERSITY TEACHER EDUCATION PROGRAM. TAKE  
 CONCURRENTLY WITH 378,449,468D.  
 Department permission required 1st week.  
 Satisfactory-Fail Only.  
 3266005 1 MTWRF 7:30-12:30  
 MEETS: JUNE 7-JULY 5  
 Note: Professional support, field trips &/or  
 travel fee \$52.00

TCHG PRACTICUM MATH C I 468C 1 CREDIT  
 Prereq: 245,250,268; ADMISSION TO TEACHER ED PROG  
 Note: COURSE RESTRICTED TO EL ED MAJORS WITH FULL  
 ADMISSION TO THE UNIVERSITY TEACHER EDUCATION  
 PROGRAM. MUST BE TAKEN CONCURRENTLY WITH 448,468A,377  
 Department permission required 1st week.  
 Satisfactory-Fail Only.  
 3267005 1 MTWRF 7:30-12:30  
 MEETS: JUNE 7-JULY 5  
 Note: Professional support, field trips &/or  
 travel fee \$52.00

TCHNG PRACTICUM SCI C I 468D 1 CREDIT  
 Prereq: 245,250,268; ADMISSION TO TEACHER ED PROG  
 Note: COURSE RESTRICTED TO EL ED MAJORS WITH FULL  
 ADMISSION TO THE UNIVERSITY TEACHER EDUCATION  
 PROGRAM. CONCURRENTLY WITH 449,378,468B.  
 Department permission required 1st week.  
 Satisfactory-Fail Only.  
 3268005 1 MTWRF 7:30-12:30  
 MEETS: JUNE 7-JULY 5  
 Note: Professional support, field trips &/or  
 travel fee \$52.00

PRACT READNG ENDORS C I 468R 1 CREDIT  
 Prereq: PERMISSION OF DEPT; CONCURRENT ENR IN 378  
 ADMISSION TO TEACHER EDUC PROGRAM  
 Note: RESTRICTED TO STUDENTS WITH FULL ADMISSION  
 TO THE UNIVERSITY TEACHER EDUCATION PROGRAM  
 Department permission required 1st week.  
 Satisfactory-Fail Only.  
 4300005 MTWRF 7:30-12:30  
 MEETS: JUNE 7-JULY 5  
 Note: Professional support, field trips &/or  
 travel fee \$58.00

INDEP STDY MUSIC ED C I 490A VAR. CREDITS  
 Prereq: GPA OF 2.5 OR MORE FOR PRECEDING SEMESTER  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STU PRIN EDUC C I 490D 1- 3 CREDITS  
 Prereq: GPA OF 2.5 OR MORE FOR PRECEDING SEMESTER  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY METHD TCHG C I 490E 1- 3 CREDITS  
 Prereq: GPA OF 2.5 OR MORE FOR PRECEDING SEMESTER  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY EDUC PSYCH C I 490F 1- 3 CREDITS  
 Prereq: GPA OF 2.5 OR MORE FOR PRECEDING SEMESTER  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## CURRICULUM &amp; INSTRUCTION (CONTINUED)

IND STU DIGITL LRNG C I 490G 1- 3 CREDITS  
Prereq: GPA OF 2.5 OR MORE FOR PRECEDING SEMESTER  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS C I 490H 1- 3 CREDITS  
Prereq: GPA OF 2.5 OR MORE FOR PRECEDING SEMESTER  
MEMBERSHIP IN UNIV HONORS PROGRAM  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU HIST/SOC SC C I 490K 1- 3 CREDITS  
Prereq: GPA OF 2.5 OR MORE FOR PRECEDING SEMESTER  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STU MATH EDUC C I 490M 1- 3 CREDITS  
Prereq: GPA OF 2.5 OR MORE FOR PRECEDING SEMESTER  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU WORLD LANGU C I 490N 1- 3 CREDITS  
Prereq: GPA OF 2.5 OR MORE FOR PRECEDING SEMESTER  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY FOUND EDUC C I 490O 1- 3 CREDITS  
Prereq: GPA OF 2.5 OR MORE FOR PRECEDING SEMESTER  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

TCHNOL IN TEACH&LRN C I 505 3 CREDITS  
Prereq: GRADUATE CLASSIFICATION  
2796005 1 MTR 5:00-8:30PM  
MEETS: JUNE 3-27

INTRO SCIENCE TEACH C I 514 2 CREDITS  
Prereq: ADMISSION TO M.A.T. PROGRAM  
8372005 MTW 5:30-8:30PM  
ARRANGED  
MEETS: MAY 13-29  
Note: THE ONLY TUESDAY MEETING IS MAY 28

PRIN SECONDARY EDUC C I 526 3 CREDITS  
Prereq: 6 CREDITS IN EDUCATION  
7724005 1 MTWRF 1:20-3:40  
MEETS: MAY 20-JUNE 21

ED PSY&SECNDY CLSRM C I 529 3 CREDITS  
Prereq: BACHELOR'S DEGREE, ADMISSION INTO A  
GRADUATE-LEVEL TEACHER LICENSURE PROGRAM  
8674005 1 MTWRF 8:40-10:40  
MEETS: JUNE 3-28

ADV PEDAG SCIENC ED C I 546 3 CREDITS  
Prereq: BACHELOR'S DEGREE  
3527005 1 MTWRF 2:00-5:00  
MEETS: MAY 13-31

RESTRUC SCIENC ACTV C I 548 3 CREDITS  
Prereq: ADMISSION TO TEACHER EDUCATION OR  
TEACHING LICENSE  
8417005 MTWRF 10:50-1:50  
MEETS: MAY 13-31

CORRECTIVE READING C I 552 3 CREDITS  
Prereq: 378 OR EQUIV; UNDERGRAD STUDENTS MUST  
REGISTER CONCURRENTLY FOR SP ED 365, 436; GRADUATE  
STUDENT MUST HAVE A TEACHING LICENSE  
3276005 1 MTW 11:00-2:00  
ARRANGED  
MEETS: JUNE 5-JULY 3  
Note: THE ARRANGED TIME REPRESENTS ONE HOUR PER DAY WW  
3276010 2 MTW 11:00-2:00  
ARRANGED  
MEETS: JUNE 5-JULY 3  
Note: THE ARRANGED TIME REPRESENTS ONE HOUR PER DAY WW

TCH STRUGL ADOL RDR C I 553 3 CREDITS  
Prereq: TEACHING LICENSE  
7267005 1 MTWR 9:00-11:30  
MEETS: JUNE 3-28

LITRACY, LDRSHP, ADVO C I 555 3 CREDITS  
Prereq: GRADUATE STANDING  
9148005 1 MTWRF 9:00-12:00  
ARRANGED  
MEETS: JUNE 10-28  
Note: THE ARRANGED TIME REPRESENTS WWW WORK

TCHNOL IN READ&LANG C I 556 3 CREDITS  
Prereq: TEACHING LICENSE  
1285005 1 MTWRF 8:00-12:00  
MEETS: MAY 17-31

TECHNLGY FOR TEACHR C I 570 2 CREDITS  
Prereq: C I 201 OR C I 202  
5622005 MTWRF 8:30-11:30  
MTWRF 12:30-3:30  
MEETS: JULY 8-12

## CURRICULUM &amp; INSTRUCTION (CONTINUED)

SUPVS TUTOR READING C I 588 3 CREDITS  
Prereq: GRADUATE STATUS, TEACHING LICENSE AND  
CONCURRENT ENROLLMENT IN OR COMPLETION OF ONE COURSE  
CORRECTIVE READING; DIAGNOSIS AND CORRECTION OF  
READING PROBLEMS  
9245005 1 MTWR 8:45-10:45  
MTWR 9:00-10:30  
ARRANGED  
MEETS: JUNE 5-JULY 3  
Note: THE LAB (9-10:30) MEETS ONLY JUNE 10-27  
Professional support, field trips &/or  
travel fee \$25.00  
9245010 2 MTWR 8:45-10:45  
ARRANGED  
MEETS: JUNE 5-JULY 3  
Note: THE LAB (9-10:30) MEETS ONLY JUNE 10-27  
Professional support, field trips &/or  
travel fee \$25.00

SPCL TOP CURRICULUM C I 590A 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP DIGITL LRNG C I 590B 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP SCIENCE EDUC C I 590C 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPICS SEC EDUC C I 590D 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP MULTICULT ED C I 590F 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPCS MATH EDUC C I 590G 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOPICS ELEM ED C I 590I 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP WORLD LANGU C I 590J 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP EDUC PSYCH C I 590K 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV COMP CURRICULM C I 599A 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CR COMP DIGITL LRNG C I 599B 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRT COMP SCIENCE ED C I 599C 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV COMP SECNDR ED C I 599D 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CR COMP MULTICUL ED C I 599F 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV COMP MATH EDUC C I 599G 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV COMPON ELEM ED C I 599I 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV COMP EDU PSYCH C I 599K 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV COMP LITERC ED C I 599M 1- 3 CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV SPCL TOP CURRIC C I 690A VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS



## CURRICULUM &amp; INSTRUCTION (CONTINUED)

ADV SP TOP DGTL LRN C I 690B VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV SPCL TOP SCI ED C I 690C VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV SPCL TOP SEC ED C I 690D VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV SPL TOP MLTICUL C I 690F VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV SPL TOP MATH ED C I 690G VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV SPL TP WRL LANG C I 690J VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV SPL TOP ED PSYC C I 690K VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP LITERACY ED C I 690M VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH CURRICULUM C I 699A VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH DIGITAL LEARN C I 699B VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH SCIENCE EDUC C I 699C VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH SECNDRY EDUC C I 699D VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES MULTICULTURL ED C I 699F VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH MATH EDUC C I 699G VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH ELEM EDUC C I 699I VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH WRLD LANGU ED C I 699J VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH EDUC PSYCHOL C I 699K VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH LITERACY ED C I 699M VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**DANCE**

INDEPENDENT STUDY DANCE 490 1- 3 CREDITS  
Prereq: 6 CR IN DANCE, PERMISSION OF COORDINATOR  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY DANCE 490H 1- 3 CREDITS  
Prereq: 6 CR IN DANCE, PERMISSION OF COORDINATOR,  
MEMBERSHIP IN UNIVERSITY HONORS PROGRAM  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**DESIGN**

DESIGN STUDIO I DES 240X 2 CREDITS  
Prereq: DSN S 102, DSN S 131  
4959005 1 MW 8:40-12:00  
MEETS: MAY 20-JULY 12

DESIGN STUDIO II DES 340X 2 CREDITS  
Prereq: 4 CREDITS OF DES 240X OR EQUIVALENT  
4968005 1 TR 8:40-12:00  
MEETS: MAY 20-JULY 12

**DESIGN STUDIES**

DESIGN REPRESENTATN DSN S 131 4 CREDITS  
Note: COURSE RESTRICTED TO COLLEGE OF DESIGN MAJORS  
Instructor permission required 1st week.  
2124005 MTWR 1:10-2:00  
MTWR 2:10-5:00  
MEETS: JUNE 17-AUG 9

INTDISCIPL DSGN WKSP DSN S 350X 3 CREDITS  
Prereq: JUNIOR STANDING AND/OR PERMISSION  
OF INSTRUCTOR  
9440800 IT ARRANGED CUNNALLY J  
MEETS: MAY 13-31  
Note: SEC IT TAUGHT IN ROME, ITALY. COLLEGE OF  
DESIGN SUMMER ROME PROGRAM. STUDY ABROAD  
SUMMER 2013.  
Study Abroad Administrative Fee Applies  
9440805 T2 ARRANGED JONES B  
MEETS: JULY 8-26  
Note: SEC T2 TAUGHT IN ROME, ITALY. COLLEGE OF  
DESIGN SUMMER ROME PROGRAM. STUDY ABROAD  
SUMMER 2013.  
Study Abroad Administrative Fee Applies  
9440810 T3 ARRANGED MARTIN M  
MEETS: MAY 13-31  
Note: SEC T3 TAUGHT IN ROME, ITALY. COLLEGE OF  
DESIGN SUMMER ROME PROGRAM. STUDY ABROAD  
SUMMER 2013.  
Study Abroad Administrative Fee Applies  
9440815 T4 ARRANGED MILLER M  
MEETS: JUNE 10-28  
Note: SEC T4 TAUGHT IN ROME, ITALY. COLLEGE OF  
DESIGN SUMMER ROME PROGRAM. STUDY ABROAD  
SUMMER 2013.  
Study Abroad Administrative Fee Applies  
9440820 T5 ARRANGED NAEGELE D  
MEETS: MAY 13-31  
Note: SEC T5 TAUGHT IN ROME, ITALY. COLLEGE OF  
DESIGN SUMMER ROME PROGRAM. STUDY ABROAD  
SUMMER 2013.  
Study Abroad Administrative Fee Applies  
9440825 T6 ARRANGED ROGERS C  
MEETS: JULY 8-26  
Note: SEC T6 TAUGHT IN ROME, ITALY. COLLEGE OF  
DESIGN SUMMER ROME PROGRAM. STUDY ABROAD  
SUMMER 2013.  
Study Abroad Administrative Fee Applies  
9440830 T7 ARRANGED STREETER P  
MEETS: JUNE 10-28  
Note: Study Abroad Administrative Fee Applies

INDEP STDY CMUNICAT DSN S 490C 1- 4 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTRUCTOR AND DEPT  
CHAIR ON REQ'D FORM PRIOR TO SEMESTER OF ENROLLMENT  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEPN STUDY DESIGN DSN S 490D 1- 4 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTRUCTOR AND DEPT  
CHAIR ON REQ'D FORM PRIOR TO SEMESTER OF ENROLLMENT  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STDY ENTREPRN DSN S 490E 1- 4 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTRUCTOR AND DEPT  
CHAIR ON REQ'D FORM PRIOR TO SEMESTER OF ENROLLMENT  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STDY SOC/BEHV DSN S 490F 1- 4 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTRUCTOR AND DEPT  
CHAIR ON REQ'D FORM PRIOR TO SEMESTER OF ENROLLMENT  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERDIS DSN STUDIO DSN S 546 4- 6 CREDITS  
Prereq: GRADUATE OR SENIOR STANDING IN THE  
COLLEGE OF DESIGN AND PERMISSION OF INSTRUCTOR  
Note: COURSE ONLY OFFERED FOR 6 CREDITS SUMMER 2013  
2878005 1 MTWRF 1:20-5:20  
MEETS: MAY 20-JULY 12  
Note: SECTION 1 TOPIC: GHOST LANDS

INTDISCIPL DSGN WKSH DSN S 550X 3 CREDITS  
Prereq: GRAD STANDING IN THE COLLEGE OF DESIGN,  
PERMISSION OF INSTRUCTOR  
9581800 IT ARRANGED BRUSKI P  
MEETS: JUNE 10-28  
Note: SEC IT TAUGHT IN ROME, ITALY. COLLEGE OF  
DESIGN SUMMER ROME PROGRAM. STUDY ABROAD  
SUMMER 2013.  
Study Abroad Administrative Fee Applies  
9581805 I2 ARRANGED GRAFTON J  
MEETS: JUNE 10-28  
Note: SEC IT TAUGHT IN ROME, ITALY. COLLEGE OF  
DESIGN SUMMER ROME PROGRAM. STUDY ABROAD  
SUMMER 2013.  
Study Abroad Administrative Fee Applies  
9581810 I3 ARRANGED LESLIE T  
MEETS: MAY 13-31  
Note: SEC IT TAUGHT IN ROME, ITALY. COLLEGE OF  
DESIGN SUMMER ROME PROGRAM. STUDY ABROAD  
SUMMER 2013.  
Study Abroad Administrative Fee Applies  
9581815 I4 ARRANGED SUBASINGHE C  
MEETS: JULY 8-26  
Note: SEC IT TAUGHT IN ROME, ITALY. COLLEGE OF  
DESIGN SUMMER ROME PROGRAM. STUDY ABROAD

## DESIGN STUDIES

(CONTINUED)

INTDISCPL DSGN WKSH DSN S 550X 3 CREDITS  
SUMMER 2013.  
Study Abroad Administrative Fee Applies

SPECIAL TOPICS DSN S 590 1- 4 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTRUCTOR AND DEPT  
CHAIR ON REQUIRED FORM PRIOR TO SEMESTER OF ENROLLMNT  
7967106 JH ARRANGED  
MEETS: MAY 20-AUG 9

**ECOLOGY & EVOLUTIONARY BIOLOGY**

SPECIAL TOPICS EEB 590 1- 3 CREDITS  
Prereq: GRAD CLASSIFICATION AND INSTR PERMISSN  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH EEB 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**ECOLOGY, EVOLUTION & ORGANISMAL BIOL**

FRESHWATER ALGAE EEOB 501I 4 CREDITS  
Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
3855005 MTWRF 8:00-5:00  
MEETS: JUNE 24-JULY 12  
Note: Tuition Category: Iowa Lakeside Lab

INTRO DNA TECHNIQS EEOB 542A 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
7105005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JUNE 17-JULY 2

INTR PROTEIN TECHNQ EEOB 542B 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
7109005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JULY 15-30

ECOL & SYST DIATOMS EEOB 580I 4 CREDITS  
Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
3889005 MTWRF 8:00-5:00  
MEETS: MAY 20-JUNE 14  
Note: Tuition Category: Iowa Lakeside Lab

SPCL TOPICS ECOLOGY EEOB 590A 1- 3 CREDITS  
Prereq: 10 CR IN BIOL, INSTRUCTOR PERMISSION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP EVOLUT BIOL EEOB 590B 1- 3 CREDITS  
Prereq: 10 CR IN BIOL, INSTRUCTOR PERMISSION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

GRAD IND STDY IA LL EEOB 590I 1- 4 CREDITS  
Prereq: 10 CR IN BIOL, INSTRUCTOR PERMISSION  
Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
3981005 1 ARRANGED  
MEETS: MAY 20-JUNE 14  
Note: Tuition Category: Iowa Lakeside Lab  
3981010 2 ARRANGED  
MEETS: JUNE 17-JULY 12  
Note: Tuition Category: Iowa Lakeside Lab

CREATIVE COMPONENT EEOB 599 VAR. CREDITS  
2145005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH EEOB 699 VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH - IA LL EEOB 699I 1- 4 CREDITS  
Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
5628005 1 ARRANGED  
MEETS: MAY 20-JUNE 14  
Note: Tuition Category: Iowa Lakeside Lab  
5628010 2 ARRANGED  
MEETS: JUNE 17-JULY 12  
Note: Tuition Category: Iowa Lakeside Lab

**ECONOMICS**

PRIN MICROECONOMICS ECON 101 3 CREDITS  
3100005 1 MTWRF 11:00-12:00  
MEETS: MAY 20-JULY 12  
Section info: <http://www.econ.iastate.edu/programs/course/defaultcourseinfo.asp>  
Syllabus: <http://www.econ.iastate.edu/programs/course/defaultcourseinfo.asp>  
3100010 2 MTWRF 11:00-12:00  
MEETS: JUNE 17-AUG 9  
Section info: <http://www.econ.iastate.edu/programs/course/defaultcourseinfo.asp>  
Syllabus: <http://www.econ.iastate.edu/programs/course/defaultcourseinfo.asp>

## ECONOMICS

(CONTINUED)

PRIN MACROECONOMICS ECON 102 3 CREDITS  
Prereq: ECON 101 RECOMMENDED  
3099005 1 MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12  
Section info: <http://www.econ.iastate.edu/programs/course/defaultcourseinfo.asp>

INTERMED MICROECON ECON 301 3- 4 CREDITS  
Prereq: ECON 101; ECON 207 OR MATH 166  
Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013  
Available for nonmajor graduate credit  
3101005 1 MTWRF 9:50-10:50  
MEETS: JUNE 17-AUG 9  
Section info: <http://www.econ.iastate.edu/programs/course/defaultcourseinfo.asp>

INDEPENDENT STUDY ECON 490 1- 5 CREDITS  
Prereq: JR/SR CLASSIFICATION, 14 CREDITS IN ECON  
Note: COLLEGE OF AG STUDENTS MAY APPLY NO MORE THAN 6 CREDITS OF ECON 490 TOWARD THE TOTAL CREDITS REQUIRED FOR GRADUATION. LAS COLLEGE STUDENTS MAY APPLY NO MORE THAN 9 CREDITS OF ECON 490 TOWARD GRADUATION.  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS ECON 490H 1- 5 CREDITS  
Prereq: JR/SR CLASSIFICATION, 14 CREDITS IN ECON.  
AG COLLEGE MAJORS MAY USE NO MORE THAN 6 CR OF ECON 490 TOWARD GRADUATION. LAS COLLEGE MAJORS MAY COUNT NO MORE THAN 9 CREDITS OF ECON 490 TOWARD GRADUATION.  
Note: COLLEGE OF AG STUDENTS MAY APPLY NO MORE THAN 6 CREDITS OF ECON 490 TOWARD THE TOTAL CREDITS REQUIRED FOR GRADUATION. LAS COLLEGE STUDENTS MAY APPLY NO MORE THAN 9 CR OF ECON 490 TOWARD GRADUATION.  
RESTRICTED TO UNIVERSITY HONORS PROGRAM STUDENTS ONLY  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS ECON 590 1- 5 CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT ECON 599 1- 5 CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADVANCED TOPICS ECON 690 1- 5 CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

WORKSHOP ECON 693 1- 3 CREDITS  
Prereq: 6 GRADUATE CREDITS IN CHOSEN FIELD  
Satisfactory-Fail Only.  
8649005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH ECON 699 VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**EDUCATIONAL ADMINISTRATION**

ADV SPECIAL TOPICS EDADM 690 1- 3 CREDITS  
Prereq: 9 CREDITS IN EDUCATIONAL ADMINISTRATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

DISSERTATN RESEARCH EDADM 699 VAR. CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**EDUCATIONAL LEADERSHIP & POLICY ST**

SOC JUSTC FIELD EXP EL PS 591 1- 3 CREDITS  
Prereq: EL PS 620  
7094005 ARRANGED  
MEETS: MAY 20-AUG 9  
7094800 CU ARRANGED OSEI-KOFI N  
MEETS: MAY 18-30

Note: SEC CU TAUGHT IN HAVANA, CUBA. TOPIC: CUBA: HISTORY, ART & EDUCATION. STUDY ABROAD SUMMER 2013. OFFERED FOR 3 CREDITS  
Study Abroad Administrative Fee Applies

CAPSTONE EXPERIENCE EL PS 616 3 CREDITS  
Prereq: 4 CREDITS OF EL PS 615  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRITICL RACE THEORY EL PS 624 1- 3 CREDITS  
Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013  
2658005 MW 11:00-5:00  
MW 5:00-9:00PM  
ARRANGED  
MEETS: JUNE 10-JULY 3  
Note: JUNE 10,12 MEETINGS ARE 5-9 P.M. ONLY. REMAINING MEETINGS ARE 11 A.M.-5 P.M. ONLY. THE ARRANGED TIME REPRESENTS ADDITIONAL WORK IN BLACKBOARD.

**ELECTRICAL ENGINEERING**

ELECTRIC CIRCUITS E E 201 4 CREDITS  
Prereq: CR OR REGISTRATN IN MATH 267 AND PHYS 222  
Note: CREDIT FOR EITHER E E 201 OR E E 442, BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION  
2120005 1 MTWRF 1:20-2:20  
MW 2:30-4:30  
MEETS: MAY 20-JULY 12

ELECTRON CIRCTS&SYS E E 230 4 CREDITS  
Prereq: E E 201, MATH 267, PHYS 222  
4639005 1 MTWRF 11:00-12:00  
MW 8:00-11:00  
MEETS: MAY 20-JULY 12  
4639010 2 MTWRF 11:00-12:00  
TR 8:00-11:00  
MEETS: MAY 20-JULY 12

COOPERATIVE EDUC E E 298 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUMMER INTERNSHIP E E 396 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC E E 398 R CREDIT  
Prereq: E E 298, PERMISSION OF DEPARTMENT AND ENGINEER CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

MICROELEC FABRICATN E E 432 4 CREDITS  
Prereq: PHYS 222, MATH 267. E E 332 OR MAT E 334 RECOMMENDED.  
Note: Available for nonmajor graduate credit  
9222005 1 ARRANGED  
MEETS: JUNE 17-AUG 9

INDEPENDENT STUDY E E 490 VAR. CREDITS  
Prereq: SENIOR CLASSIFICATION IN ELECTRICAL ENGR  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS E E 490H VAR. CREDITS  
Prereq: SENIOR CLASSIFICATION IN ELECTRICAL ENGR MEMBERSHIP IN UNIV HONORS PROGRAM  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC E E 498 R CREDIT  
Prereq: E E 398, PERMISSION OF DEPARTMENT AND ENGINEERING CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

MICROEL FABRIC TCHQ E E 532 4 CREDITS  
Prereq: PHYS 222, MATH 265. E E 332 OR MAT E 331 RECOMMENDED  
8880005 1 ARRANGED  
MEETS: JUNE 17-AUG 9

SPL TOP ELECMAG THY E E 590A 1- 6 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP CONTROL SYS E E 590B 1- 6 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP COMMUN SYS E E 590C 1- 6 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP COMPTR ENGR E E 590E 1- 6 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP ELECTRC PWR E E 590F 1- 6 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP ELEC MATRLS E E 590G 1- 6 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP EL DEVIC&CIR E E 590H 1- 6 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP SIGNL PROCS E E 590I 1- 6 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT E E 599 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ENGINEERG INTERNSHP E E 697 R CREDIT  
Satisfactory-Fail Only.  
5716005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Department permission required.

**ELECTRICAL ENGINEERING**

(CONTINUED)

RESEARCH E E 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**ENGINEERING**

SUMMER INTERNSHIP ENGR 396 R CREDIT  
Prereq: PERMISSION OF ADVISER AND ENGINEERING CAREER SERVICES  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PROFSSNL INTERNSHIP ENGR 397 R CREDIT  
Prereq: PERMISSION OF ADVISER AND ENGINEERING CAREER SERVICES  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**ENGINEERING MECHANICS**

STATICS OF ENGINEER E M 274 3 CREDITS  
Prereq: CREDIT OR ENROLLMENT IN MATH 166; CREDIT OR ENROLLMENT IN PHYS 111 OR PHYS 221  
3004005 1 MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12

MECHAN OF MATERIALS E M 324 3 CREDITS  
Prereq: E M 274  
Note: Available for nonmajor graduate credit  
3007005 1 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12

MECH OF MATERLS LAB E M 327 1 CREDIT  
Prereq: CREDIT OR ENROLLMENT IN E M 324  
Note: Available for nonmajor graduate credit  
3008005 1 TR 11:00-1:00  
MEETS: MAY 20-JULY 12  
3008010 2 TR 8:40-10:40  
MEETS: JUNE 25-AUG 8  
Note: SECTION 2 RESTRICTED TO C E MAJORS NEW TO ISU SUMMER 2013  
3008015 3 TR 2:30-4:30  
MEETS: JUNE 25-AUG 8  
Note: SECTION 3 RESTRICTED TO C E MAJORS NEW TO ISU SUMMER 2013

DYNAMICS E M 345 3 CREDITS  
Prereq: E M 274, CR OR ENROLLMENT IN MATH 266 OR MATH 267  
Note: COURSE RESTRICTED TO ENGR COLLEGE MAJORS ONLY  
Available for nonmajor graduate credit  
3010005 1 MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12

MECHANICS OF FLUIDS E M 378 3 CREDITS  
Prereq: E M 274  
Note: COURSE RESTRICTED TO ENGR COLLEGE MAJORS ONLY  
Available for nonmajor graduate credit  
3013005 1 MTWRF 7:30-8:30  
M 1:20-3:20  
MEETS: MAY 20-JULY 12

INDEPENDENT STUDY E M 490 VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC THIN FILMS E M 590H 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP CELULR MDIA E M 590I 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS E M 590J 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT E M 599 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP ADV EXP MTH E M 690N 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP ADV WAV PROP E M 690O 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## ENGINEERING MECHANICS

(CONTINUED)

SPL TOP ADV MATERLS E M 690P 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SP TOP ADV COMP MTH E M 690Q 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP RELIAB&FAIL E M 690R 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS E M 690S 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ENGINEERG INTERNSHP E M 697 R CREDIT  
Prereq: PERMISSION OF DOGE, GRAD CLASSIFICATION  
Satisfactory-Fail Only.  
8134005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH E M 699 VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## ENGLISH

INTENSIVE ENGLISH ENGL 10 0 CREDITS  
Prereq: RECOMMENDATION OF THE ENGLISH DEPT  
Note: PROCESS APPROVED ADD SLIP IN 10 ENROLLMENT SERVICES CENTER  
Department permission required.  
Satisfactory-Fail Only.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INTENSIVE ENGLISH ENGL 10B 0 CREDITS  
Note: Department permission required.  
Satisfactory-Fail Only.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INTENSIVE ENGLISH ENGL 10C 0 CREDITS  
Note: Department permission required.  
Satisfactory-Fail Only.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ENGLISH NONNATIV II ENGL 101D 3 CREDITS  
Prereq: RECOMMENDATION OF ENGL DEPT; PLACEMENT IN VARIOUS SECTIONS DETERMINED BY EXAMINATION  
Note: COURSE RESTRICTED TO GRADUATE STUDENTS ONLY.  
ENGL 101D DOES NOT APPLY TOWARD GRADUATION.  
3296005 1 MTWRF 8:40-9:40  
MEETS: JUNE 17-AUG 9

CRITCL THINK&CMUNIC ENGL 150 3 CREDITS  
Prereq: CREDIT OR ENROLLMENT IN LIB 160  
Note: SOME SECTIONS WILL BE TAUGHT IN A COMPUTER LAB  
3298005 A MTWRF 8:40-9:40  
MEETS: JUNE 17-AUG 9  
3298015 B MTWRF 9:50-10:50  
MEETS: JUNE 17-AUG 9  
3298025 C MTWRF 11:00-12:00  
MEETS: JUNE 17-AUG 9  
3298030 D MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12

POPULR CULTUR ANALY ENGL 205 3 CREDITS  
Prereq: CREDIT IN OR EXEMPTION FROM ENGL 150  
3305005 A MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12

WRIT,ORAL,EL COMPOS ENGL 250 3 CREDITS  
Prereq: ENGL 150 OR EXEMPTION FROM ENGL 150;  
CREDIT FOR OR CONCURRENT ENROLLMENT IN LIB 160  
Note: SOME SECTIONS WILL BE TAUGHT IN A COMPUTER LAB  
3299005 A MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12  
3299010 B MTWRF 9:50-10:50  
MEETS: JUNE 17-AUG 9  
3299015 C MTWRF 11:00-12:00  
MEETS: JUNE 17-AUG 9  
3299020 D MTWRF 8:40-9:40  
MEETS: JUNE 17-AUG 9  
3299030 E MTWRF 9:50-10:50  
MEETS: JUNE 17-AUG 9

BUSINESS COMMUNICAT ENGL 302 3 CREDITS  
Prereq: ENGL 250, JUNIOR CLASSIFICATION  
Note: COURSE NOT OPEN TO FRESHMEN AND SOPHOMORES.  
SOME SECTIONS WILL BE TAUGHT IN A COMPUTER LAB.  
3314005 1 MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12  
3314010 2 MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12  
3314015 3 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12  
3314020 4 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12  
3314025 5 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12  
3314030 6 MTWRF 11:00-12:00  
MEETS: MAY 20-JULY 12

## ENGLISH

(CONTINUED)

BUSINESS COMMUNICAT ENGL 302 3 CREDITS  
3314035 7 MTWRF 11:00-12:00  
MEETS: MAY 20-JULY 12  
3314040 8 MTWRF 11:00-12:00  
MEETS: MAY 20-JULY 12  
3314045 9 MTWRF 12:10-1:10  
MEETS: MAY 20-JULY 12  
3314050 10 MTWRF 1:20-2:20  
MEETS: MAY 20-JULY 12  
3314055 11 MTWRF 8:40-9:40  
MEETS: JUNE 17-AUG 9  
3314060 12 MTWRF 9:50-10:50  
MEETS: JUNE 17-AUG 9  
3314065 13 MTWRF 11:00-12:00  
MEETS: JUNE 17-AUG 9  
3314066 14 MTWRF 12:10-1:10  
MEETS: JUNE 17-AUG 9

CREAT WRITING NON-F ENGL 305 3 CREDITS  
Prereq: ENGL 250, NOT OPEN TO FRESHMEN  
Note: COURSE RESTRICTED TO SOPHOMORES AND ABOVE  
3317005 A MTWRF 9:50-10:50  
MEETS: JUNE 17-AUG 9

REPT&PROPOSAL WRITING ENGL 309 3 CREDITS  
Prereq: ENGL 250, JUNIOR CLASSIFICATION  
8089005 A1 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12  
Note: SECTION A1 RESTRICTED TO ENGL, TCOMM JUNIORS AND SENIORS ONLY  
8089010 A2 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12  
Note: SECTION A2 RESTRICTED TO JUNIORS AND SENIORS ONLY

TECHNICAL COMMUNICTN ENGL 314 3 CREDITS  
Prereq: ENGL 250, JUNIOR CLASSIFICATION  
Note: COURSE RESTRICTED TO JUNIORS AND ABOVE.  
SOME SECTIONS WILL BE TAUGHT IN A COMPUTER LAB.  
3356005 1 MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12  
3356010 2 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12  
3356015 3 MTWRF 11:00-12:00  
MEETS: MAY 20-JULY 12  
3356020 4 MTWRF 12:10-1:10  
MEETS: MAY 20-JULY 12  
3356025 5 MTWRF 9:50-10:50  
MEETS: JUNE 17-AUG 9  
3356030 6 MTWRF 11:00-12:00  
MEETS: JUNE 17-AUG 9  
3356035 7 TR 6:00-8:30PM  
MEETS: JUNE 17-AUG 9

STUDIES IN FILM ENGL 335 3 CREDITS  
Prereq: ENGL 250  
Note: Available for nonmajor graduate credit  
3322005 A MWF 1:20-5:00  
MEETS: MAY 20-JUNE 14  
Note: Materials fee \$25.00

STDY&TRAVL CRTV WRI ENGL 395B VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Meets international perspectives reqmt  
5085800 IE ARRANGED PETT S  
MEETS: MAY 16-JUNE 8  
Note: SEC IE IRELAND: DUBLIN, SLIGO, DOOLIN, DINGLE.  
'ON THE ROAD IN IRELAND: A TRAVELING WRITER'S WORKSHOP' STUDY ABROAD SUMMER 2013  
Study Abroad Administrative Fee Applies

INTERN BUS,PRO COMM ENGL 487 1- 3 CREDITS  
Prereq: JUNIOR CLASSIF; PERMISSN OF COORDINATOR;  
9 CR IN ENGL 302, ENGL 309, ENGL 313, ENGL 314, ENGL 415 (PREFERRED), ENGL 416, OR ENGL 477.  
Note: Department permission required.  
9099005 ARRANGED  
MEETS: MAY 20-AUG 9

IND STDY LITERATURE ENGL 490A VAR. CREDITS  
Prereq: 9 CR IN ENGL BEYOND ENGL 250 APPROPRIATE  
TO THE SECT TAKEN, JR CLASSIFICATION, PERMISSION OF UNDERGRADUATE STUDIES COMMITTEE  
Note: NO MORE THAN 9 CREDITS OF ENGL 490 MAY BE APPLIED TOWARD GRADUATION  
Department permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STU LINGUISTICS ENGL 490B VAR. CREDITS  
Prereq: 9 CR IN ENGL BEYOND ENGL 250 APPROPRIATE  
TO THE SECT TAKEN, JR CLASSIFICATION, PERMISSION OF UNDERGRADUATE STUDIES COMMITTEE  
Note: NO MORE THAN 9 CREDITS OF ENGL 490 MAY BE APPLIED TOWARD GRADUATION  
Department permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## ENGLISH

(CONTINUED)

INDEP STDY RHETORIC ENGL 490C VAR. CREDITS  
Prereq: 9 CR IN ENGL BEYOND ENGL 250 APPROPRIATE  
TO THE SECT TAKEN, JR CLASSIFICATION, PERMISSION  
OF UNDERGRADUATE STUDIES COMMITTEE  
Note: NO MORE THAN 9 CREDITS OF ENGL 490 MAY BE APPLIED  
TOWARD GRADUATION  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU CRITICI LIT ENGL 490D VAR. CREDITS  
Prereq: 9 CR IN ENGL BEYOND ENGL 250 APPROPRIATE  
TO THE SECT TAKEN, JR CLASSIFICATION, PERMISSION  
OF UNDERGRADUATE STUDIES COMMITTEE  
Note: NO MORE THAN 9 CREDITS OF ENGL 490 MAY BE APPLIED  
TOWARD GRADUATION  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY READING ENGL 490E VAR. CREDITS  
Prereq: 9 CR IN ENGL BEYOND ENGL 250 APPROPRIATE  
TO THE SECT TAKEN, JR CLASSIFICATION, PERMISSION  
OF UNDERGRADUATE STUDIES COMMITTEE  
Note: NO MORE THAN 9 CREDITS OF ENGL 490 MAY BE APPLIED  
TOWARD GRADUATION  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU CREATV WRIT ENGL 490F VAR. CREDITS  
Prereq: 9 CR IN ENGL BEYOND ENGL 250 APPROPRIATE  
TO THE SECT TAKEN, JR CLASSIFICATION, PERMISSION  
OF UNDERGRADUATE STUDIES COMMITTEE  
Note: NO MORE THAN 9 CREDITS OF ENGL 490 MAY BE APPLIED  
TOWARD GRADUATION  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU BUS/TCH CMM ENGL 490G VAR. CREDITS  
Prereq: 9 CR IN ENGL BEYOND ENGL 250 APPROPRIATE  
TO THE SECT TAKEN, JR CLASSIFICATION, PERMISSION  
OF UNDERGRADUATE STUDIES COMMITTEE  
Note: NO MORE THAN 9 CREDITS OF ENGL 490 MAY BE APPLIED  
TOWARD GRADUATION  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS ENGL 490H VAR. CREDITS  
Prereq: 9 CR IN ENGL BEYOND ENGL 250 APPROPRIATE  
TO THE SECT TAKEN, JUNIOR CLASSIFICATION,  
PERMISSION OF UNDERGRADUATE STUDIES COMMITTEE  
MEMBERSHIP IN UNIV HONORS PROGRAM  
Note: NO MORE THAN 9 CREDITS OF ENGL 490 MAY BE APPLIED  
TOWARD GRADUATION. RESTRICTED TO HONORS PROGRAM  
STUDENTS ONLY.  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

TCHG BUS&TECHN COMM ENGL 504 3 CREDITS  
Prereq: M.A. IN ENGLISH OR CLOSELY RELATED FIELD;  
MUST BE TEACHING ENGL 302, ENGL 309 OR ENGL 314  
CONCURRENTLY  
3388005 A ARRANGED  
MEETS: MAY 20-AUG 9

ADV WKSHP ACAD WRIT ENGL 508 3 CREDITS  
Prereq: 6 GRADUATE CREDITS  
5107005 A TR 6:15-8:45PM  
MEETS: MAY 20-JULY 12

LANGU ASSESS PRACTM ENGL 513 3 CREDITS  
Prereq: ENGL 519  
8728005 A ARRANGED  
MEETS: MAY 20-AUG 9

ENVIRON FIELD EXPR ENGL 560 3 CREDITS  
Prereq: ENGL 550, GRAD CLASSIFICATION. OPEN TO  
GRAD STUDENTS OUTSIDE MFA IN CREATIVE WRITING AND  
ENVIRONMENT ONLY WITH PERMISSION.  
8229005 A ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Instructor permission required.

INTERN BUS,PRO COMM ENGL 587 1- 3 CREDITS  
Prereq: ENGL 507 PLUS 3 ADDL GRAD CR IN BUSINESS  
& TECHNICAL WRITING OR COMPOSITION & RHETORIC,  
INSTRUCTOR PERMISSION. LIMITED TO MASTER'S & DOCTORAL  
CANDIDATES IN FIELD OF RHETORIC AND PRO COMMUNICATION  
Note: Instructor permission required.  
3425005 ARRANGED  
MEETS: MAY 20-AUG 9

PRA TCH ENG 2ND LNG ENGL 588 3 CREDITS  
Prereq: 15 CREDITS TOWARD TESL CERTIFICATE,  
15 CREDITS TOWARD TESL/AL MASTER'S DEGREE, OR  
COMPLETION OF ALL OTHER REQUIREMENTS FOR K-12  
ESL TEACHER ENDORSEMENT  
3426005 A ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Professional support, field trips &/or  
travel fee \$25.00

## ENGLISH

(CONTINUED)

SPL TOP LITERATURE ENGL 590A VAR. CREDITS  
Prereq: PERMISSION OF GRADUATE STUDIES COMMITTEE  
ACCORDING TO GUIDELINES AVAILABLE IN DEPT OFFICE  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP TESL/LINGUI ENGL 590B VAR. CREDITS  
Prereq: PERMISSION OF GRADUATE STUDIES COMMITTEE  
ACCORDING TO GUIDELINES AVAILABLE IN DEPT OFFICE  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP RHETOR&COMP ENGL 590C VAR. CREDITS  
Prereq: PERMISSION OF GRADUATE STUDIES COMMITTEE  
ACCORDING TO GUIDELINES AVAILABLE IN DEPT OFFICE  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP RHE&PRO COMM ENGL 590E VAR. CREDITS  
Prereq: PERMISSION OF GRADUATE STUDIES COMMITTEE  
ACCORDING TO GUIDELINES AVAILABLE IN DEPT OFFICE  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP CREATV WRIT ENGL 590F VAR. CREDITS  
Prereq: PERMISSION OF GRADUATE STUDIES COMMITTEE  
ACCORDING TO GUIDELINES AVAILABLE IN DEPT OFFICE  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TP APP LING&TEC ENGL 590G VAR. CREDITS  
Prereq: PERMISSION OF GRADUATE STUDIES COMMITTEE  
ACCORDING TO GUIDELINES AVAILABLE IN DEPT OFFICE  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

STDY&TRVL:CRTV WRIT ENGL 595B VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
5985800 IE ARRANGED PETT S  
MEETS: MAY 16-JUNE 8  
Note: SEC IE IRELAND: DUBLIN, SLIGO, DOOLIN, DINGLE.  
'ON THE ROAD IN IRELAND: A TRAVELING WRITER'S  
WORKSHOP' STUDY ABROAD SUMMER 2013  
Study Abroad Administrative Fee Applies

CREATIVE COMPONENT ENGL 599 3 CREDITS  
Prereq: GRADUATE CLASSIFICATION, PERMISSION OF  
MAJOR PROFESSOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PRACTCM TEC &LINGUI ENGL 688 3 CREDITS  
Prereq: ENGL 510, ENGL 626, OR EQUIV; AT LEAST  
2ND YR PH.D. STUDENT IN APPLIED LINGUISTICS &  
TECHNOLOGY  
7633005 A ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH ENGL 699 VAR. CREDITS  
Prereq: GRADUATE CLASSIFICATION, PERMISSION OF  
MAJOR PROFESSOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## ENTOMOLOGY

INTRO TO INSECTS ENT 201 1 CREDIT  
5197005 W ARRANGED  
MEETS: MAY 20-JUNE 21  
Note: Course delivery is WWW  
Section info: <http://www.ent.iastate.edu/dept/courses/>

IND STU RESRCH/WORK ENT 490E 1- 3 CREDITS  
Prereq: 15 CR IN BIOL SCI, JR OR SR CLASSIF  
Note: NO MORE THAN 6 CREDITS OF 490 MAY BE USED  
TOWARD GRADUATION  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY LAB TEACHG ENT 490U 1- 3 CREDITS  
Prereq: 15 CREDITS IN BIOLOGICAL SCIENCES, JUNIOR  
OR SENIOR CLASSIFICATION. FOR STUDENTS REGISTERING TO  
BE UNDERGRADUATE LABORATORY ASSISTANTS.  
Note: NO MORE THAN 6 CREDITS OF 490 MAY BE USED  
TOWARD GRADUATION  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP CHEM ECOLOGY ENT 590B 1- 3 CREDITS  
Prereq: 15 CREDITS IN BIOLOGICAL SCIENCES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP ECO&PEST MGT ENT 590C 1- 3 CREDITS  
Prereq: 15 CREDITS IN BIOLOGICAL SCIENCES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP EVOL&SYSTMAT ENT 590D 1- 3 CREDITS  
Prereq: 15 CREDITS IN BIOLOGICAL SCIENCES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP RSRCH TOPCS ENT 590E 1- 3 CREDITS  
Prereq: 15 CREDITS IN BIOLOGICAL SCIENCES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## ENTOMOLOGY

(CONTINUED)

SPL TOPIC MOLECULAR ENT 590G 1- 3 CREDITS

Prereq: 15 CREDITS IN BIOLOGICAL SCIENCES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP TCHNG EXPER ENT 590K 1- 3 CREDITS

Prereq: 15 CREDITS IN BIOLOGICAL SCIENCES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP EXTENS INTRN ENT 590L 1- 3 CREDITS

Prereq: 15 CREDITS IN BIOLOGICAL SCIENCES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP IMMATUR INS ENT 590M 1- 3 CREDITS

Prereq: 15 CREDITS IN BIOLOGICAL SCIENCES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP POPUL GENET ENT 590N 1- 3 CREDITS

Prereq: 15 CREDITS IN BIOLOGICAL SCIENCES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SEMINAR ENT 600 1 CREDIT

5345005 A M 3:40-4:50

MEETS: MAY 20-AUG 9

Section info: <http://www.ent.iastate.edu/dept/courses/>

RESEARCH ENT 699 VAR. CREDITS

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**ENVIRONMENTAL SCIENCE**

ECOLOGY ENSCI 312 4 CREDITS

Prereq: BIOL 211L AND BIOL 212L

4996005 A MTWR 9:50-11:05

MW 12:10-3:00

MEETS: MAY 20-JULY 12

Note: Materials, field trips &amp;/or travel fee \$62.00

4996010 B MTWR 9:50-11:05

TR 12:10-3:00

MEETS: MAY 20-JULY 12

Note: Materials, field trips &amp;/or travel fee \$62.00

ECOLOGY ENSCI 312I 4 CREDITS

Note: Permission of Lakeside Lab Office required

<http://www.continuetolearn.uiowa.edu/lakesidelab>

5038005 1 MTWRF 8:00-5:00

MEETS: MAY 20-JUNE 14

Note: Tuition Category: Iowa Lakeside Lab

INTERNSHIP ENVI SCI ENSCI 390 VAR. CREDITS

Prereq: APPROVAL OF THE ENVIR SCIENCE COORDINATOR

Satisfactory-Fail Only.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPRENTICESHIP ENSCI 391 VAR. CREDITS

Prereq: APPROVAL OF THE ENVIR SCIENCE COORDINATOR

Note: Permission of coordinator required.

Satisfactory-Fail Only.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FLD METHD HYDROGEOL ENSCI 409 3 CREDITS

Prereq: MATH 402 OR MATH 411 OR C E 473

3081005 MTWRF 8:00-5:00 SIMPKINS W

MEETS: MAY 13-24

Note: Equipment use and field trips &amp; travel fee \$200.00

PRAIRIE ECOLOGY ENSCI 422I 4 CREDITS

Prereq: FAMILIARITY WITH BASIC PRINCIPLES IN

BIOLOGICAL SCIENCES AND ECOLOGY

Note: Available for nonmajor graduate credit

Permission of Lakeside Lab Office required

<http://www.continuetolearn.uiowa.edu/lakesidelab>

5041005 MTWRF 8:00-5:00

MEETS: JUNE 17-JULY 12

Note: Tuition Category: Iowa Lakeside Lab

INDEPENDENT STUDY ENSCI 490 VAR. CREDITS

Prereq: INSTRUCTOR PERMISSION, APPROVAL OF

ENVIRONMENTAL SCIENCE COORDINATOR

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

AQUATIC ECOLOGY ENSCI 508I 4 CREDITS

Prereq: COURSES IN ECOLOGY, CHEMISTRY AND PHYSICS

Note: Permission of Lakeside Lab Office required

<http://www.continuetolearn.uiowa.edu/lakesidelab>

5043005 MTWRF 8:00-5:00

MEETS: MAY 20-JUNE 14

Note: Tuition Category: Iowa Lakeside Lab

FLD METHD HYDROGEOL ENSCI 509 3 CREDITS

Prereq: MATH 402 OR MATH 411 OR C E 473

3095005 MTWRF 8:00-5:00 SIMPKINS W

MEETS: MAY 13-24

Note: Equipment use and field trips &amp; travel fee \$200.00

## ENVIRONMENTAL SCIENCE

(CONTINUED)

SPECIAL TOPICS ENSCI 590 VAR. CREDITS

Prereq: PERMISSION OF MAJOR PROF IN ENVIRONMENTAL

SCIENCE FACULTY

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT ENSCI 599 VAR. CREDITS

Prereq: PERMISSION OF MAJOR PROF IN ENVIRONMENTAL

SCIENCE FACULTY

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH ENSCI 699 VAR. CREDITS

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**ENVIRONMENTAL STUDIES**

ENVIRONMNTL BIOLOGY ENV S 173 3 CREDITS

2022005 A ARRANGED

MEETS: MAY 20-AUG 9

Note: Course delivery is WW

Section info: [http://www.elo.iastate.edu](http://www.elo.iastate.edu/biology-courses-information/)

/biology-courses-information/

ENVIRN POLIT&amp;POLICI ENV S 383 3 CREDITS

Prereq: SOPHOMORE CLASSIFICATION

7581010 A MTWRF 8:40-10:00

MEETS: MAY 20-JUNE 28

INTERNSH ENVIR STDI ENV S 390 VAR. CREDITS

Prereq: APPROVAL OF THE ENV S COORDINATOR

Satisfactory-Fail Only.

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY ENV S 490 VAR. CREDITS

Prereq: PERMISSION OF INSTRUCTOR AND APPROVAL OF

ENV S COORDINATOR

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**EVENT MANAGEMENT**

P R &amp; EVENT MGMT I EVENT 271 1- 3 CREDITS

Prereq: PERMISSION OF INSTRUCTOR. COURSE MUST

BE TAKEN FOR 3 CREDITS THE FIRST ENROLLMENT; CAN

BE REPEATED FOR 1 CREDIT.

Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013

4556005 1 ARRANGED

MEETS: JUNE 17-AUG 9

Note: Course delivery is WW

**FAMILY&CONSUMER SCIENCES ED&STUDIES**

INDEP STUDY GENERAL FCEDS 490G VAR. CREDITS

Prereq: DEPARTMENTAL APPROVAL

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SHRT CRSE OCCUPA ED FCEDS 500F 1- 3 CREDITS

Prereq: 6 CREDITS IN FCS OR EDUCATION

Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013

4007005 1 MTWRF 8:00-5:00

ARRANGED

MEETS: JULY 15-19

Note: SECTION 1 TOPIC: HOUSING AND INTERIORS

SPL TOP OCCUPATN ED FCEDS 590F VAR. CREDITS

Prereq: 6 CREDITS IN FCS OR EDUCATION

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT FCEDS 599 VAR. CREDITS

Prereq: 9 GRAD CREDITS IN FCSD

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH FCEDS 699 VAR. CREDITS

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**FINANCE**

PRINCIPL OF FINANCE FIN 301 3 CREDITS

Prereq: ACCT 284, ECON 101, STAT 226

Note: COURSE NOT OPEN TO P BUS MAJORS

3689005 A1 MTWRF 12:10-2:10

MEETS: MAY 20-JUNE 14

Note: SECTION A1 RESTRICTED TO ACCT, AG B, AN S, BUS S,

BUS U, BUSEC, DY S, FIN, LSCM, MGMT, MIS, MKT, OSCM,

SCM UNDERGRAD MAJORS. CONCURRENT ENROLLMENT OR PRIOR

CREDIT IN SCM 301 IS RECOMMENDED FOR THIS ENROLLMENT

BLOCK. NEXT SEMESTER ENROLLMENT BLOCK INCLUDES

MGMT 370 AND MKT 340.

3689010 A2 MTWRF 12:10-2:10

MEETS: MAY 20-JUNE 14

Note: SECTION A2 FOR MAJORS OTHER THAN ACCT, AG B,

AN S, BUS S, BUS U, BUSAD, BUSEC, DY S, FIN, I BUS,

I R, LOMIS, LSCM, MGMT, MIS, MKT, OSCM, P BUS, SCIS,

SCM

## FINANCE

(CONTINUED)

CORPORATE FINANCE FIN 310 3 CREDITS  
Prereq: FIN 301  
Note: COURSE NOT OPEN TO P BUS MAJORS  
3691005 A1 MTWRF 9:50-11:50  
MEETS: JUNE 17-JULY 12  
Note: SECTION A1 RESTRICTED TO FIN MAJORS ONLY  
3691010 A2 MTWRF 9:50-11:50  
MEETS: JUNE 17-JULY 12  
Note: SEC A2 RESTRICTED TO ACCT, BUS S, BUS U, BUSEC,  
LSCM, MGMT, MIS, MKT, OSCM, SCM UNDERGRAD MAJORS ONLY

INVESTMENTS FIN 320 3 CREDITS  
Prereq: FIN 301  
Note: COURSE NOT OPEN TO P BUS MAJORS  
3692005 A1 MTWRF 7:30-9:30  
MEETS: JUNE 17-JULY 12  
Note: SECTION A1 RESTRICTED TO FIN MAJORS ONLY  
3692010 A2 MTWRF 7:30-9:30  
MEETS: JUNE 17-JULY 12  
Note: SECTION A2 RESTRICTED TO ACCT, BUS S, BUS U,  
BUSEC, LSCM, MGMT, MIS, MKT, OSCM, SCM UNDERGRAD  
MAJORS ONLY

FINAN MKTS&INSTITUT FIN 330 3 CREDITS  
Prereq: FIN 301  
Note: COURSE RESTRICTED TO FIN MAJORS ONLY  
6829005 A MTWRF 12:10-2:10  
MEETS: MAY 20-JUNE 14

REAL ESTATE PRINCIP FIN 371 3 CREDITS  
Prereq: ECON 101  
Note: COURSE NOT OPEN TO P BUS MAJORS  
3690005 A1 MTWRF 9:50-11:50  
MEETS: MAY 20-JUNE 14  
Note: SECTION A1 RESTRICTED TO FIN MAJORS ONLY  
3690010 A2 MTWRF 9:50-11:50  
MEETS: MAY 20-JUNE 14  
Note: SECTION A2 RESTRICTED TO ACCT, BUS S, BUS U,  
BUSEC, LSCM, MGMT, MIS, MKT, OSCM, SCM MAJORS ONLY

INDEPENDENT STUDY FIN 490 1- 3 CREDITS  
Prereq: FIN 301, STAT 326 AND PERMISSION OF  
INSTRUCTOR  
Note: PROCESS APPROVED ADD SLIP IN 10 ENROLLMENT  
SERVICES CENTER  
Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

BANKING INTERNSHIP FIN 499A 1- 3 CREDITS  
Prereq: FIN 330; STAT 326; GPA 2.5; PERMISSION OF  
INTERNSHIP COORDINATOR  
Satisfactory-Fail Only.  
9403005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Department permission required.

INSURANCE INTERNSHP FIN 499B 1- 3 CREDITS  
Prereq: FIN 361; STAT 326; GPA 2.5; PERMISSION OF  
INTERNSHIP COORDINATOR  
Satisfactory-Fail Only.  
9555005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Department permission required.

INTERNS REAL ESTATE FIN 499C 1- 3 CREDITS  
Prereq: FIN 301 PLUS 3 ADDL CREDITS IN FINANCE/  
STAT 326; GPA 2.5; PERMISSN OF INTERNSHIP COORDINATOR  
Satisfactory-Fail Only.  
3098005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Department permission required.

INTERNSHIP INVESTMT FIN 499D 1- 3 CREDITS  
Prereq: FIN 320, STAT 326, GPA 2.5, PERMISSION OF  
INTERNSHIP COORDINATOR  
Satisfactory-Fail Only.  
6516005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Department permission required.

INTERNSHP:CORPORATE FIN 499E 1- 3 CREDITS  
Prereq: FIN 310, STAT 326, GPA 2.5, PERMISSION OF  
INTERNSHIP COORDINATOR  
Satisfactory-Fail Only.  
2736005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Department permission required.

SPECIAL TOPICS FIN 590 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: RESTRICTED TO BUSINESS COLLEGE GRADUATE STUDENTS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## FOOD SCIENCE &amp; HUMAN NUTRITION

IND STUDY DIETETICS FS HN 490A 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STDY FOOD SCI FS HN 490B 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STUDY NUTRITION FS HN 490C 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STUDY INT'L EXP FS HN 490D 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS FS HN 490H 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, MEMBERSHIP IN  
UNIVERSITY HONORS PROGRAM  
Note: NO MORE THAN 6 CREDITS OF 490 MAY BE APPLIED  
TOWARD GRADUATION. RESTRICTED TO HONORS PROGRAM  
STUDENTS ONLY.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUPR WORK DIETETICS FS HN 491A 1- 4 CREDITS  
Prereq: ADVANCE APPROVAL OF INSTRUCTOR & ADVISER  
Note: NO MORE THAN 4 CREDITS OF FS HN 491A,B,C,D MAY BE  
APPLIED TOWARD GRADUATION  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUPRV WORK FOOD SCI FS HN 491B 1- 4 CREDITS  
Prereq: ADVANCE APPROVAL OF INSTRUCTOR & ADVISER  
Note: NO MORE THAN 4 CREDITS OF FS HN 491A,B,C,D MAY BE  
APPLIED TOWARD GRADUATION  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUPR WORK NUTRITION FS HN 491C 1- 4 CREDITS  
Prereq: ADVANCE APPROVAL OF INSTRUCTOR & ADVISER  
Note: NO MORE THAN 4 CREDITS OF FS HN 491A,B,C,D MAY BE  
APPLIED TOWARD GRADUATION  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUPRV WORK CULINARY FS HN 491D 1- 4 CREDITS  
Prereq: ADVANCE APPROVAL OF INSTRUCTOR & ADVISER  
Note: NO MORE THAN 4 CREDITS OF FS HN 491A,B,C,D MAY BE  
APPLIED TOWARD GRADUATION  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SERV LEARN HUM NUTR FS HN 494 1 CREDIT  
Prereq: FS HN 360  
Satisfactory-Fail Only.  
9028005 ARRANGED  
MEETS: MAY 20-JULY 12

TRAVEL - INTERNATNL FS HN 496A 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Meets international perspectives reqmt  
6295805 PE ARRANGED MARQUIS G  
MEETS: JUNE 3-28  
Note: SEC PE TAUGHT IN PERU: LIMA, HUARAZ. TOPIC:  
MULTIDISCIPLINATRY EXPERIMENTAL STUDY OF  
INTERNATIOAL NUTRITION IN PERU. STUDY ABROAD  
SUMMER 2013. OFFERED FOR 4 CREDITS  
Study Abroad Administrative Fee Applies  
6295800 SP ARRANGED SVENDSEN L  
MEETS: JUNE 21-JULY 6  
Note: SEC SP TAUGHT IN VALLADOLID, SPAIN. SPANISH  
CUISINE: FROM THE OLD WORLD TO THE NEW CUISINE.  
STUDY ABROAD SUMMER 2013 TAUGHT FOR 3 CREDITS  
Study Abroad Administrative Fee Applies

UNDERGRAD RESEARCH FS HN 499 1- 6 CREDITS  
Prereq: PERMISSION OF STAFF MEMBER WITH WHOM  
STUDENT PROPOSES TO WORK  
Note: NO MORE THAN 6 CREDITS OF FS HN 499 MAY BE  
APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTRO DNA TECHNIQS FS HN 542A 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
7123005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JUNE 17-JULY 2

## FOOD SCIENCE &amp; HUMAN NUTRITION (CONTINUED)

INTR PROTEIN TECHNQ FS HN 542B 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
7124005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JULY 15-30

SPCL TOPICS NUTRITN FS HN 590A 1- 3 CREDITS  
Prereq: INSTRUCTOR PERMISSION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPICS FOOD SCI FS HN 590B 1- 3 CREDITS  
Prereq: INSTRUCTOR PERMISSION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPICS TEACHING FS HN 590C 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT FS HN 599 VAR. CREDITS  
3213005 CC ARRANGED  
MEETS: MAY 20-AUG 9  
3213006 DB ARRANGED  
MEETS: MAY 20-AUG 9  
3213028 JH ARRANGED  
MEETS: MAY 20-AUG 9  
3213038 KS ARRANGED  
MEETS: MAY 20-AUG 9  
3213041 LL ARRANGED  
MEETS: MAY 20-AUG 9  
3213047 MR ARRANGED  
MEETS: MAY 20-AUG 9  
3213045 MT ARRANGED  
MEETS: MAY 20-AUG 9  
3213057 RL ARRANGED  
MEETS: MAY 20-AUG 9  
3213054 RM ARRANGED  
MEETS: MAY 20-AUG 9  
3213068 SF ARRANGED  
MEETS: MAY 20-AUG 9  
3213070 SH ARRANGED  
MEETS: MAY 20-AUG 9  
3213074 SP ARRANGED  
MEETS: MAY 20-AUG 9  
3213090 WW ARRANGED  
MEETS: MAY 20-AUG 9

SEMINAR FS HN 681 1 CREDIT  
3648005 ARRANGED  
MEETS: MAY 20-AUG 9

SPECIAL PROBLEMS FS HN 690 VAR. CREDITS  
Prereq: FS HN 502 OR FS HN 503 OR FS HN 504 OR FS  
HN 553 OR FS HN 554  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH FOOD SCI&TEC FS HN 699 VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## FORESTRY

SPL PROB LEADERSHIP FOR 290A 1- 4 CREDITS  
Prereq: FROSH OR SOPH CLASSIF, INSTRUCTOR PERMISN  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL PROB ECOSYS MGT FOR 290B 1- 4 CREDITS  
Prereq: FROSH OR SOPH CLASSIF, INSTRUCTOR PERMISN  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL PRB RESRC CNSRV FOR 290C 1- 4 CREDITS  
Prereq: FROSH OR SOPH CLASSIF, INSTRUCTOR PERMISN  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL PROB URB&COMMUN FOR 290D 1- 4 CREDITS  
Prereq: FROSH OR SOPH CLASSIF, INSTRUCTOR PERMISN  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL PROB WOOD SCIEN FOR 290E 1- 4 CREDITS  
Prereq: FROSH OR SOPH CLASSIF, INSTRUCTOR PERMISN  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CR COMP FOR BIOLOGY FOR 599A 1-12 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CR COMP FOR BIOMTRY FOR 599B 1-12 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CR COMP FO&REC ECON FOR 599C 1-12 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## FORESTRY (CONTINUED)

CR COMP FOR MGT&ADM FOR 599D 1-12 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV COMPO WOOD SCI FOR 599E 1-12 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FOREST BIOLGY RSRCH FOR 699A 1-12 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FOR BIOMETRY RESRCH FOR 699B 1-12 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FOR ECONOMICS RSRCH FOR 699C 1-12 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FOR MGT&ADMIN RSRCH FOR 699D 1-12 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

WOOD SCIENCE RESRCH FOR 699E 1-12 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH PLANT PHYSIOL FOR 699F 1-12 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## FRENCH

ELEMENTARY FRENCH I FRNCH 101 4 CREDITS  
3803005 1 MTWRF 8:40-11:40  
MEETS: MAY 20-JUNE 14  
Note: Materials and equipment use fee \$25.00

ELEMENTARY FRENCH II FRNCH 102 4 CREDITS  
Prereq: FRNCH 101  
Note: Meets international perspectives reqmt  
3804005 1 MTWRF 8:40-11:40  
MEETS: JUNE 17-JULY 12  
Note: Materials and equipment use fee \$25.00

STUDY ABROAD FRNCH 395 1-10 CREDITS  
Prereq: 2 YEARS UNIVERSITY-LEVEL FRENCH  
Note: Meets international perspectives reqmt  
Department permission required.  
3820005 RG ARRANGED  
MEETS: MAY 26-JULY 6  
Note: SECTION RG IS REGENTS EXCHANGE PROGRAM IN LYON,  
FRANCE  
Tuition Category: Regents Summer Study Abroad

INDEPENDENT STUDY FRNCH 490 1- 6 CREDITS  
Prereq: PERMISSION OF FRENCH STAFF AND DEPT CHAIR  
Note: NO MORE THAN 9 CREDITS IN FRNCH 490 MAY BE  
APPLIED TOWARD GRADUATION  
Permission of department chair required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## GENETICS

PRINCIP OF GENETICS GEN 313 3 CREDITS  
Prereq: BIOL 211 & BIOL 212L, CREDIT OR  
ENROLLMENT IN ORGANIC CHEMISTRY  
Note: CREDIT FOR ONLY ONE OF THE FOLLOWING MAY BE  
APPLIED TOWARD GRADUATION: GEN 260, GEN/BIOL 313/301  
AND 313L/301L, GEN/AGRON 320  
9559005 1 MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12

GENETICS RESEARCH GEN 490H 1- 5 CREDITS  
Prereq: GEN 313, JR/SR CLASSIFICATION, PERMISSION  
OF INSTRUCTOR. MEMBERSHIP IN UNIVERSITY HONORS  
PROGRAM.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

GENETICS RESEARCH GEN 490R 1- 5 CREDITS  
Prereq: GEN 313, JR/SR CLASSIFICATION, PERMISSION  
OF INSTRUCTOR  
Note: AG COLLEGE STUDENTS MAY APPLY NO MORE THAN  
6 CREDITS OF GEN 490 TOWARD THE TOTAL OF 128 CREDITS  
REQUIRED FOR GRADUATION. STUDENTS IN THE LAS COLLEGE  
MAY APPLY NO MORE THAN 9 CREDITS OF GEN 490 TOWARD  
GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ATTEND&CRITIQ SEMNR GEN 490S 1 CREDIT  
Prereq: GEN 313, JR/SR CLASSIFICATION, PERMISSION  
OF INSTRUCTOR  
Note: AG COLLEGE STUDENTS MAY APPLY NO MORE THAN  
6 CREDITS OF GEN 490 TOWARD THE TOTAL OF 128 CREDITS  
REQUIRED FOR GRADUATION. STUDENTS IN THE LAS COLLEGE  
MAY APPLY NO MORE THAN 9 CREDITS OF GEN 490 TOWARD  
GRADUATION.  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS



## GENETICS

(CONTINUED)

LAB TCHG EXPERIENCE GEN 490U 1- 2 CREDITS  
 Prereq: GEN 313, JR/SR CLASSIFICATION, PERMISSION  
 OF INSTRUCTOR  
 Note: AG COLLEGE STUDENTS MAY APPLY NO MORE THAN  
 6 CREDITS OF GEN 490 TOWARD THE TOTAL OF 128 CREDITS  
 REQUIRED FOR GRADUATION. STUDENTS IN THE LAS COLLEGE  
 MAY APPLY NO MORE THAN 9 CREDITS OF GEN 490 TOWARD  
 GRADUATION.  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**GENETICS - INTERDISCIPLINARY**

SPECIAL TOPICS GENET 590 VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

GRAD RESEARCH ROTAT GENET 697 VAR. CREDITS  
 9316005 ARRANGED  
 MEETS: MAY 20-AUG 9

RESEARCH GENET 699 VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**GENETICS, DEVELOPMENT & CELL BIOL**

INTRO DNA TECHNIQS GDCB 542A 1 CREDIT  
 Prereq: GRADUATE CLASSIFICATION  
 Satisfactory-Fail Only.  
 7089005 1 MTRF 1:00-2:00  
 MTRF 2:00-4:00  
 MEETS: JUNE 17-JULY 2

INTR PROTEIN TECHNQ GDCB 542B 1 CREDIT  
 Prereq: GRADUATE CLASSIFICATION  
 Satisfactory-Fail Only.  
 7092005 1 MTRF 1:00-2:00  
 MTRF 2:00-4:00  
 MEETS: JULY 15-30

SPECIAL TOPICS GDCB 590 VAR. CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: COURSE ONLY OFFERED FOR 1-5 CREDITS SUMMER 2013  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH GDCB 699 VAR. CREDITS  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH - IA LL GDCB 699I 1- 4 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Permission of Lakeside Lab Office required  
 http://www.continuetolearn.uiowa.edu/lakesidelab  
 3967005 1 ARRANGED  
 MEETS: MAY 20-JUNE 14  
 Note: Tuition Category: Iowa Lakeside Lab  
 3967010 2 ARRANGED  
 MEETS: JUNE 17-JULY 12  
 Note: Tuition Category: Iowa Lakeside Lab

**GEOLOGY**

INDEPENDENT STUDY GEOL 290 2- 4 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUMMER FIELD STUDY GEOL 302 6 CREDITS  
 Prereq: GEOL 102, GEOL 356, GEOL 368  
 Note: Available for nonmajor graduate credit  
 3881005 1 ARRANGED JACOBSON C  
 MEETS: MAY 26-JULY 5  
 Note: Tuition Category: Camp fee

FLD METHD HYDROGEOL GEOL 409 3 CREDITS  
 Prereq: GEOL 402 OR ENSCI 402 OR GEOL 411 OR  
 ENSCI 411 OR C E 473  
 7671005 MTWRF 8:00-5:00 SIMPKINS W  
 MEETS: MAY 13-24  
 Note: Equipment use and field trips & travel fee \$200.00

INDEPENDENT STUDY GEOL 490 1- 4 CREDITS  
 Prereq: 6 CR IN GEOLOGY & PERMISSN OF INSTRUCTOR  
 Note: NO MORE THAN 9 CREDITS OF GEOL 490 MAY BE  
 APPLIED TOWARD GRADUATION  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FLD METHD HYDROGEOL GEOL 509 3 CREDITS  
 Prereq: GEOL 402 OR ENSCI 402 OR GEOL 411 OR  
 ENSCI 411 OR C E 473  
 9169005 MTWRF 8:00-5:00 SIMPKINS W  
 MEETS: MAY 13-24  
 Note: Equipment use and field trips & travel fee \$200.00

## GEOLOGY

(CONTINUED)

SPL TOP SURFIC PROC GEOL 590A 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP STRATIGRAPH GEOL 590B 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP SEDIMENTATN GEOL 590C 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP PALEONTOLGY GEOL 590D 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPCS PETROLOGY GEOL 590E 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP STRUCTURAL GEOL 590F 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOPICS GEOCHEM GEOL 590G 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPCS HYDROGEOL GEOL 590H 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPCS EARTH SCI GEOL 590I 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP MIN RESOURC GEOL 590J 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP GEOPHYSICS GEOL 590K 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP MINERALOGY GEOL 590L 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPCS TECTONICS GEOL 590M 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP PALEOECO&CLI GEOL 590N 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP ISOTP GCHEM GEOL 590O 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP COMPUTA&GIS GEOL 590P 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP SRFC HYDROL GEOL 590R 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP OCEANOGRPHY GEOL 590S 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES SURFICIAL PROC GEOL 699A VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH STRATIGRAPHY GEOL 699B VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH SEDIMENTATION GEOL 699C VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH PALEONTOLOGY GEOL 699D VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH PETROLOGY GEOL 699E VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES STRUCTURAL GEOL GEOL 699F VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH GEOCHEMISTRY GEOL 699G VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH HYDROGEOLOGY GEOL 699H VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## GEOLOGY

(CONTINUED)

RSRCH EARTH SCIENCE GEOL 699I VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES MINERAL RESOURC GEOL 699J VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH GEOPHYSICS GEOL 699K VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH MINERALOGY GEOL 699L VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH TECTONICS GEOL 699M VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES PALEOECO&CLIMAT GEOL 699N VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES ISOTOPE GEOCHEM GEOL 699O VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH CMPUT MTH&GIS GEOL 699P VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES SURFC HYDROLOGY GEOL 699R VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## GERMAN

ELEMENTARY GERMAN I GER 101 4 CREDITS  
3949005 1 MTWRF 8:40-11:40  
MEETS: MAY 20-JUNE 14  
Note: Materials and equipment use fee \$25.00

ELEMENTARY GERMAN II GER 102 4 CREDITS  
Prereq: GER 101  
Note: Meets international perspectives reqmt  
3950005 1 MTWRF 8:40-11:40  
MEETS: JUNE 17-JULY 12  
Note: Materials and equipment use fee \$25.00

## GERONTOLOGY

GERONTL PREPRAC SEM GERON 466 1 CREDIT  
Prereq: 9 CR IN CORE COURSES FOR THE GERON  
MINOR & APPROVAL OF GERON UNDERGRAD COORDINATOR  
7869005 ARRANGED  
MEETS: MAY 20-JULY 12

GERONTOL PRACTICUM GERON 467 3- 6 CREDITS  
Prereq: GERON 466, ADVANCE RESERVATION  
Satisfactory-Fail Only.  
7870005 ARRANGED  
MEETS: MAY 20-AUG 9

SPECIAL TOPICS GERON 590 VAR. CREDITS  
3059005 ARRANGED  
MEETS: MAY 20-AUG 9

## GLOBAL RESOURCE SYSTEMS

APPRENTICESHIP GLOBE 221 R CREDIT  
Satisfactory-Fail Only.  
6652005 ARRANGED  
MEETS: MAY 20-AUG 9

INDEPENDENT STUDY GLOBE 290 1- 2 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, APPROVAL BY  
THE GLOBAL RESOURCE SYSTEMS FACULTY COORDINATOR  
8851005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Instructor permission required.

INTERNSHIP - GLOBAL GLOBE 321 3- 6 CREDITS  
Prereq: JUNIOR OR SENIOR IN THE GLOBE MAJOR;  
INSTRUCTOR PERMISSION; APPROVAL BY THE GLOBAL  
RESOURCE SYSTEMS FACULTY COORDINATOR  
Note: NO MORE THAN 12 CREDITS OF GLOBE 321 AND 322  
MAY BE APPLIED TOWARD DEGREE REQUIREMENTS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERNSHIP - U.S. GLOBE 322 3- 6 CREDITS  
Prereq: JUNIOR OR SENIOR IN THE GLOBE MAJOR;  
INSTRUCTOR PERMISSION; APPROVAL BY THE GLOBAL  
RESOURCE SYSTEMS FACULTY COORDINATOR  
Note: NO MORE THAN 12 CREDITS OF GLOBE 321 AND 322  
MAY BE APPLIED TOWARD DEGREE REQUIREMENTS  
8684005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Instructor permission required.

SENIOR PROJECT GLOBE 401 3 CREDITS  
Prereq: SENIOR CLASSIFICATION IN GLOBE  
6799005 ARRANGED  
MEETS: MAY 20-AUG 9

## GLOBAL RESOURCE SYSTEMS

(CONTINUED)

INDEPENDENT STUDY GLOBE 490A 1- 4 CREDITS  
Prereq: INSTRUCTOR PERMISSION; APPROVAL BY  
THE GLOBAL RESOURCE SYSTEMS FACULTY COORDINATOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY ENTREPRENR GLOBE 490E 1- 4 CREDITS  
Prereq: INSTRUCTOR PERMISSION; APPROVAL BY  
THE GLOBAL RESOURCE SYSTEMS FACULTY COORDINATOR  
Note: NO MORE THAN 4 CREDITS OF GLOBE 490 MAY BE  
APPLIED TOWARD GRADUATION  
8687005 ARRANGED  
MEETS: MAY 20-AUG 9

INDEP STUDY HONORS GLOBE 490H 1- 4 CREDITS  
Prereq: INSTRUCTOR PERMISSION; APPROVAL BY  
THE GLOBAL RESOURCE SYSTEMS FACULTY COORDINATOR  
Note: NO MORE THAN 4 CREDITS OF GLOBE 490 MAY BE  
APPLIED TOWARD GRADUATION  
6817005 ARRANGED  
MEETS: MAY 20-AUG 9

SERVIC LEARN DOMESTC GLOBE 494B VAR. CREDITS  
9553005 ARRANGED  
MEETS: MAY 20-AUG 9

## GRADUATE STUDIES

PREP FAC TCHG PRACT GR ST 587 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, GR ST 585,  
CREDIT FOR OR CONCURRENT ENROLLMENT IN GR ST 586  
7679005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Instructor permission required.

PREP FTR FAC SPL TP GR ST 588 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, GR ST 585,  
CREDIT FOR OR CONCURRENT ENROLLMENT IN GR ST 586  
8341005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Instructor permission required.

EXAMINATION ONLY GR ST 600 R CREDIT  
3972005 ARRANGED  
MEETS: MAY 20-AUG 9

REQUIRED ENROLLMENT GR ST 601 R CREDIT  
Note: College permission required.  
4482005 ARRANGED  
MEETS: MAY 20-AUG 9

PRACTICAL TRAINING GR ST 697 R CREDIT  
6905005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: THE REQUIRED APPROVAL SIGNATURE SHOULD BE  
OBTAINED IN 1137 PEARSON HALL  
College permission required.

## GRAPHIC DESIGN

GRPHC DSN METHODLGY ARTGR 476 3 CREDITS  
Prereq: CONCURRENT ENROLLMENT IN ARTGR 370, ARTGR  
371, ARTGR 470 OR ARTGR 482  
1889005 1 MWF 8:30-12:00  
MEETS: MAY 20-JULY 12

GRPH DSGN INTERNSHP ARTGR 480 3 CREDITS  
Prereq: 377, 12 CR IN GRAPHIC DESIGN; INSTRUCTOR  
PERMISSION, REGISTRATION IN ADVANCE OF ENROLLMENT  
7746005 A ARRANGED  
MEETS: MAY 20-AUG 9  
7746010 B ARRANGED  
MEETS: MAY 20-AUG 9

IND ST THEORY, CRIT ARTGR 490A 1- 6 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU COOP, INTERN ARTGR 490I 1- 6 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
Note: PERMISSION OF INSTRUCTOR REQUIRED TO ADD.  
PROCESS APPROVED ADD SLIP IN 10 ENRL SC.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

GRPHC DSIGN METHDOL ARTGR 576 3 CREDITS  
Prereq: GRAD ENROLLMENT IN COLLEGE OF DESIGN  
2058005 1 MWF 8:30-12:00  
MEETS: MAY 20-JULY 12

SPL TOPCS THRY, CRIT ARTGR 590A VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN GRAPHIC DESIGN, OR  
EVIDENCE OF SATISFACTORY EQUIVALENCY IN SPECIALIZED  
AREA. WRITTEN APPROVAL OF INSTRUCTOR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## GRAPHIC DESIGN

(CONTINUED)

SPL TOP 2-DIMEN DSN ARTGR 590B VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN GRAPHIC DESIGN, OR  
EVIDENCE OF SATISFACTORY EQUIVALENCY IN SPECIALIZED  
AREA. WRITTEN APPROVAL OF INSTRUCTOR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMT.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP 3-DIMEN DSN ARTGR 590C VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN GRAPHIC DESIGN, OR  
EVIDENCE OF SATISFACTORY EQUIVALENCY IN SPECIALIZED  
AREA. WRITTEN APPROVAL OF INSTRUCTOR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMT.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT ARTGR 599 VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADVANCED TOPICS ARTGR 690 VAR. CREDITS  
Prereq: MFA CLASSIFICATION, INSTRUCTOR PERMISSION  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

RESEARCH - THESIS ARTGR 699 VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

**HEALTH STUDIES**

1ST AID & EMERG CARE H S 105 2 CREDITS  
4081005 1 MTWRF 7:30-9:40  
MEETS: MAY 20-JUNE 14  
Note: Materials and equipment use fee \$50.00

PERS & CONSUMER HLTH H S 110 3 CREDITS  
4082005 1 MTWRF 9:50-11:50  
MEETS: MAY 20-JUNE 14

HEALTH ED ELEM SCHL H S 275 3 CREDITS  
Prereq: HD FS 102 OR HD FS 226  
Note: CREDIT FOR EITHER H S 275 OR H S 375, BUT NOT  
BOTH, MAY BE APPLIED TOWARD GRADUATION  
Instructor permission required 1st week.  
4084005 MTWR 9:50-11:30  
MEETS: JUNE 17-JULY 25

HUMAN DISEASES H S 350 3 CREDITS  
Prereq: H S 110 AND BIOL 255, BIOL 256  
4088005 MTWR 11:00-12:40  
MEETS: MAY 20-JUNE 28

TEACH-LEARN HLTH ED H S 375 3 CREDITS  
Prereq: H S 105, H S 110, H S 215  
Note: CREDIT FOR EITHER H S 275 OR H S 375, BUT NOT  
BOTH, MAY BE APPLIED TOWARD GRADUATION  
Instructor permission required 1st week.  
4089005 MTWR 9:50-11:30  
MEETS: JUNE 17-JULY 25

FIELD EXPERIENCE H S 485 1-16 CREDITS  
Prereq: ALL REQUIRED H S COURSES, PERMISSION OF  
COORDINATOR  
Note: Instructor permission required.  
Satisfactory-Fail Only.  
4095005 ARRANGED  
MEETS: MAY 20-AUG 9

INDEPENDENT STUDY H S 490 1- 3 CREDITS  
Prereq: 6 CR IN H S, PERMISSION OF COORDINATOR  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

**HIGHER EDUCATION**

HIGHER EDUC IN U.S. HG ED 504 3 CREDITS  
Prereq: GRADUATE CLASSIFICATION  
4111005 MTWR 5:00-8:00PM  
MEETS: MAY 20-JUNE 14

SPL TOP STDT SERVIC HG ED 590A 1- 4 CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP COMMUN COLL HG ED 590B 1- 4 CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP CURRENT ISS HG ED 590C 1- 4 CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP INTNL HG ED HG ED 590D 1- 4 CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## HIGHER EDUCATION

(CONTINUED)

SP TOP FED&STAT AFF HG ED 590E 1- 4 CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SP TOP LAW IN HG ED HG ED 590F 1- 4 CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SP TOP INSTITNL RES HG ED 590G 1- 4 CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SUPV FIELD EXPERIEN HG ED 591 1- 4 CREDITS  
Prereq: 9 CREDITS GRADUATE WORK  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT HG ED 599 VAR. CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADV SPECIAL TOPICS HG ED 690 1- 4 CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

RESEARCH HG ED 699 VAR. CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

**HISTORICAL, PHILOSOPHICAL & COMP ED**

STUDI FOUND AMER ED H P C 504 3 CREDITS  
Prereq: ADMISSION TO GRADUATE LICENSURE PROGRAM  
IN TEACHER EDUCATION OR PERMISSION OF INSTRUCTOR  
2604010 1 MTWR 9:30-12:40  
MEETS: JULY 8-25

SPCL TOP HIST OF ED H P C 590A 1- 5 CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP PHIL OF ED H P C 590B 1- 5 CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPCL TOPC COMPAR ED H P C 590C 1- 5 CREDITS  
Prereq: 9 CREDITS IN EDUCATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT H P C 599 1- 3 CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADV SPECIAL TOPICS H P C 690 1- 3 CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

RESEARCH H P C 699 VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

**HISTORY**

SURVEY U.S. HIST I HIST 221 3 CREDITS  
4155005 MTWRF 1:20-2:20  
MEETS: JUNE 17-AUG 9

ENGLAND 1525-1700 HIST 325 3 CREDITS  
Prereq: SOPHOMORE CLASSIFICATION  
Note: COURSE RESTRICTED TO SOPHOMORES AND ABOVE  
4169005 MTWRF 12:10-2:10  
MEETS: MAY 20-JUNE 14

U.S. 1945-PRESENT HIST 361 3 CREDITS  
Prereq: SOPHOMORE CLASSIFICATION  
Note: COURSE RESTRICTED TO SOPHOMORES AND ABOVE  
4220005 MTWRF 9:50-11:50  
MEETS: MAY 20-JUNE 14

ROMAN CIVILIZATION HIST 403 3 CREDITS  
Prereq: SOPHOMORE CLASSIFICATION  
Note: COURSE RESTRICTED TO SOPHOMORES AND ABOVE  
Available for nonmajor graduate credit  
4193005 MTWRF 9:50-11:50  
MEETS: JULY 15-AUG 9

FRANCE: 1715-1815 HIST 420 3 CREDITS  
Prereq: SOPHOMORE CLASSIFICATION  
Note: COURSE RESTRICTED TO SOPHOMORES AND ABOVE  
Available for nonmajor graduate credit  
7629005 MTWRF 9:50-11:50  
MEETS: JULY 15-AUG 9

THE RURAL SOUTH HIST 461 3 CREDITS  
Prereq: SOPHOMORE CLASSIFICATION  
Note: COURSE RESTRICTED TO SOPHOMORES AND ABOVE  
Available for nonmajor graduate credit  
8908005 MTWRF 9:50-11:50  
MEETS: JUNE 17-JULY 12

## HISTORY

(CONTINUED)

THE AMERICAN WEST HIST 465 3 CREDITS  
Prereq: SOPHOMORE CLASSIFICATION  
Note: Available for nonmajor graduate credit  
4224005 MTWRF 12:10-2:10  
MEETS: JULY 15-AUG 9

INDEPENDENT STUDY HIST 490 1- 3 CREDITS  
Prereq: 9 CREDITS IN HISTORY; PERMISSION OF  
DEPARTMENT CHAIR  
Note: COURSE NOT OPEN TO FRESHMEN. NO MORE THAN 6  
CREDITS OF HIST 490 MAY BE APPLIED TOWARD GRADUATION  
WITH A MAJOR IN HISTORY. NO CREDITS OF HIST 490 MAY  
BE APPLIED TOWARD A MINOR IN HISTORY.  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOPCS N AMER HI HIST 496B 3 CREDITS  
Prereq: SOPHOMORE CLASSIFICATION OR PERMISSION OF  
INSTRUCTOR  
Note: COURSE RESTRICTED TO SOPHOMORES AND ABOVE  
3028005 MTWRF 2:30-4:30  
MEETS: JUNE 17-JULY 12  
Note: TOPIC: REMEMBERING THE CIVIL WAR

SPECIAL TOPICS HIST 590 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH HIST 699 1- 6 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**HORTICULTURE**

HORT MGT EXPERIENCE HORT 391 1 CREDIT  
Prereq: HORT 221 OR PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 2 CREDITS OF HORT 391 MAY BE APPLIED  
TOWARD THE HORTICULTURAL SCIENCES COURSE REQUIREMENTS.  
2 ADDITIONAL CREDITS OF HORT 391 MAY BE APPLIED  
TOWARD THE 128 CREDITS REQUIRED FOR GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN HORT 398 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT RESOURCE AND  
CAREER CENTER COORDINATOR  
Satisfactory-Fail Only.  
3652005 ARRANGED  
MEETS: MAY 20-AUG 9

ENTPRISE MGT:HARVST HORT 465B 3 CREDITS  
Prereq: ECON 230; 6 CR HORT; JUNIOR CLASSIFICATION  
Note: Available for nonmajor graduate credit  
2169005 W 12:10-1:10  
M 12:10-3:00  
W 1:10-4:00  
MEETS: MAY 20-AUG 9

IND ST GREENHS CROP HORT 490A VAR. CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIFICATION IN  
HORTICULTURE OR PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 4 CREDITS OF HORT 490 AND AN  
ADDITIONAL 2 CREDITS OF 490 FROM OUTSIDE HORTICULTURE  
MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY NURS CROPS HORT 490B VAR. CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIFICATION IN  
HORTICULTURE OR PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 4 CREDITS OF HORT 490 AND AN  
ADDITIONAL 2 CREDITS OF 490 FROM OUTSIDE HORTICULTURE  
MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY TURFGRASS HORT 490C VAR. CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIFICATION IN  
HORTICULTURE OR PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 4 CREDITS OF HORT 490 AND AN  
ADDITIONAL 2 CREDITS OF 490 FROM OUTSIDE HORTICULTURE  
MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU FRUIT CROPS HORT 490D VAR. CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIFICATION IN  
HORTICULTURE OR PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 4 CREDITS OF HORT 490 AND AN  
ADDITIONAL 2 CREDITS OF 490 FROM OUTSIDE HORTICULTURE  
MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STUDY VEG CROPS HORT 490E VAR. CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIFICATION IN  
HORTICULTURE OR PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 4 CREDITS OF HORT 490 AND AN  
ADDITIONAL 2 CREDITS OF 490 FROM OUTSIDE HORTICULTURE  
MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## HORTICULTURE

(CONTINUED)

IND STU CROSS-COMMO HORT 490F VAR. CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIFICATION IN  
HORTICULTURE OR PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 4 CREDITS OF HORT 490 AND AN  
ADDITIONAL 2 CREDITS OF 490 FROM OUTSIDE HORTICULTURE  
MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND ST LANDSCP HORT HORT 490G VAR. CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIFICATION IN  
HORTICULTURE OR PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 4 CREDITS OF HORT 490 AND AN  
ADDITIONAL 2 CREDITS OF 490 FROM OUTSIDE HORTICULTURE  
MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS HORT 490H VAR. CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIFICATION IN  
HORTICULTURE OR PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 4 CREDITS OF HORT 490 AND AN  
ADDITIONAL 2 CREDITS OF 490 FROM OUTSIDE HORTICULTURE  
MAY BE APPLIED TOWARD GRADUATION. COURSE RESTRICTED  
TO UNIVERSITY HONORS PROGRAM STUDENTS ONLY  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTRO DNA TECHNIQS HORT 542A 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
3106005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JUNE 17-JULY 2

INTR PROTEIN TECHNQ HORT 542B 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
3134005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JULY 15-30

SPECIAL TOPICS HORT 590 VAR. CREDITS  
Prereq: A MAJOR OR MINOR IN HORTICULTURE  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

WKSHP GREENHS CROPS HORT 593A VAR. CREDITS  
4339005 ARRANGED  
MEETS: MAY 20-AUG 9

WKSHP NURSERY CROPS HORT 593B VAR. CREDITS  
4340005 ARRANGED  
MEETS: MAY 20-AUG 9

WORKSHOP TURFGRASS HORT 593C VAR. CREDITS  
4341005 ARRANGED  
MEETS: MAY 20-AUG 9

WORKSHP FRUIT CROPS HORT 593D VAR. CREDITS  
4342005 ARRANGED  
MEETS: MAY 20-AUG 9

WORKSHOP VEG CROPS HORT 593E VAR. CREDITS  
4343005 ARRANGED  
MEETS: MAY 20-AUG 9

WKSHP CROSS-COMMODT HORT 593F VAR. CREDITS  
4344005 ARRANGED  
MEETS: MAY 20-AUG 9

WKSHP LANDSCAP HORT HORT 593G VAR. CREDITS  
4094005 ARRANGED  
MEETS: MAY 20-AUG 9

CREATIVE COMPONENT HORT 599 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADVANCED TOPICS HORT 690 VAR. CREDITS  
4348005 ARRANGED  
MEETS: MAY 20-AUG 9

RSRCH GREENHSE CROP HORT 699A VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH NURSERY CROPS HORT 699B VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH TURFGRASS HORT 699C VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESRCH FRUIT CROPS HORT 699D VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH VEG CROPS HORT 699E VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH CROSS-COMMODT HORT 699F VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## HORTICULTURE

(CONTINUED)

RSRCH LANDSCAP HORT HORT 699G VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**HOTEL RESTAURANT & INSTITUTION MGMT**

IND ST HOSPLTY MGT HRI 490B VAR. CREDITS  
 Prereq: PROGRAM APPROVAL  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND ST LODGING OPER HRI 490D VAR. CREDITS  
 Prereq: PROGRAM APPROVAL  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU FOODSRVC OP HRI 490E VAR. CREDITS  
 Prereq: PROGRAM APPROVAL  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS HRI 490H VAR. CREDITS  
 Prereq: PROGRAM APPROVAL, FULL MEMBERSHIP IN  
 HONORS PROGRAM  
 Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
 Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

HOSPLTY MGT SCHOLAR HRI 505 1 CREDIT  
 3423005 1 ARRANGED  
 MEETS: JUNE 3-AUG 9

CURR ISS HSPLTY MGT HRI 506 1 CREDIT  
 3458005 1 ARRANGED  
 MEETS: JUNE 3-AUG 9

PRO EXPRNC FDS&LODG HRI 575 2 CREDITS  
 Prereq: ACCEPTED IN HRIM GRADUATE PROGRAM  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP HOSPITY MGT HRI 590B VAR. CREDITS  
 Prereq: 9 CR IN HRI AT 400 LEVEL OR ABOVE AND  
 SUBMISSION OF APPLICATION TO DEPARTMENT  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP CMMRC FDSRV HRI 590E VAR. CREDITS  
 Prereq: 9 CR IN HRI AT 400 LEVEL OR ABOVE AND  
 SUBMISSION OF APPLICATION TO DEPARTMENT  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT HRI 599 VAR. CREDITS  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PROFESSIONL WRITING HRI 604 2 CREDITS  
 Prereq: ENROLLMENT IN PH.D. PROGRAM  
 8484005 1 ARRANGED  
 MEETS: JUNE 3-AUG 9

ADV HR MGT HOSPITY HRI 638 3 CREDITS  
 Prereq: HRI 538  
 4400005 1 MTWRF 8:00-5:00  
 MEETS: JUNE 3-AUG 9  
 Note: MEETINGS ON JUNE 4-8 ONLY

ANALY OF RSRCH FDSV HRI 680 3 CREDITS  
 Prereq: ENROLLMENT IN PH.D. PROGRAM  
 3498005 1 MTWRF 8:00-5:00  
 MEETS: JUNE 10-AUG 9  
 Note: MEETINGS ON JUNE 10-14 ONLY

ADV TOP HSPTLY MGT HRI 690B VAR. CREDITS  
 Prereq: ENROLLMENT IN PH.D. PROGRAM; SUBMISSION  
 OF APPLICATION TO DEPARTMENT  
 Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013  
 2664005 1 MTWRF 8:00-5:00  
 MEETS: JUNE 17-AUG 9  
 Note: MEETINGS ON JUNE 17-21 ONLY  
 2664030 LR ARRANGED RAJAGOPAL L  
 MEETS: MAY 20-AUG 9

RESEARCH HRI 699 VAR. CREDITS  
 Prereq: ENROLLMENT IN PH.D. PROGRAM  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**HUMAN COMPUTER INTERACTION**

USER INTERFACE WEB HCI 573X 3 CREDITS  
 Prereq: PREVIOUS EXPERIENCE EDITING HTML OR  
 OTHER PROGRAMMING LANGUAGE HELPFUL  
 9593005 A MTWRF 11:00-12:00  
 MEETS: MAY 20-JULY 12

## HUMAN COMPUTER INTERACTION

(CONTINUED)

SPECIAL TOPICS HCI 590 VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT HCI 599 3 CREDITS  
 Satisfactory-Fail Only.  
 6700005 ARRANGED  
 MEETS: MAY 20-AUG 9

HCI INTERNSHIP HCI 697 R CREDIT  
 Prereq: GRAD CLASSIFICATION, PERMISSION OF  
 DIRECTOR OF GRADUATE EDUCATION  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH HCI 699 VAR. CREDITS  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**HUMAN DEVELOPMENT & FAMILY STUDIES**

INDV&FAM LIFE DEVEL HD FS 102 3 CREDITS  
 3491005 MTWRF 11:00-12:00  
 MEETS: JUNE 17-AUG 9

FLD EXP EARLY CHILD HD FS 317A 1- 6 CREDITS  
 Prereq: HS FS 343  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FLD EXP FAMILY SERV HD FS 317B 1- 6 CREDITS  
 Prereq: 9 CREDITS IN HD FS  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FLD EX CARE 5+YR OLD HD FS 317D 1- 6 CREDITS  
 Prereq: HD FS 226, PERMISSION OF INSTRUCTOR  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FLD EXP INF/TODDLER HD FS 317E 1- 6 CREDITS  
 Prereq: HD FS 340, PERMISSION OF INSTRUCTOR  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FLD EXPRNC RESEARCH HD FS 317F 1- 6 CREDITS  
 Prereq: HD FS 269, PERMISSION OF INSTRUCTOR  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU CHILD&FAMLY HD FS 490A VAR. CREDITS  
 Prereq: 6 CREDITS IN HD FS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HOUSING HD FS 490B VAR. CREDITS  
 Prereq: 6 CREDITS IN HD FS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU FAMLY FINAN HD FS 490C VAR. CREDITS  
 Prereq: 6 CREDITS IN HD FS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY EARLY EDUC HD FS 490F VAR. CREDITS  
 Prereq: 6 CREDITS IN HD FS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND ST EARLY SPL ED HD FS 490G VAR. CREDITS  
 Prereq: 6 CREDITS IN HD FS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS HD FS 490H VAR. CREDITS  
 Prereq: 6 CR IN HD FS, MEMBERSHIP IN HONORS PROG  
 Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND ST HUM DEV&FMLY HD FS 490I VAR. CREDITS  
 Prereq: 6 CREDITS IN HD FS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY POLICY PRG HD FS 490L VAR. CREDITS  
 Prereq: 6 CREDITS IN HD FS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERNSHIP HD FS 491 4- 9 CREDITS  
 Prereq: HD FS 449; PERMISSION OF INSTRUCTOR;  
 SENIOR CLASSIFICATION  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH HD FS 499 1- 6 CREDITS  
 Prereq: PERMISSION OF STAFF MEMBER WITH WHOM  
 STUDENT PROPOSED TO WORK, CONSULT DEPARTMENT OFFICE  
 FOR PROCEDURES  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP FAMILY STU HD FS 590A VAR. CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## HUMAN DEVELOPMENT &amp; FAMILY STUDIES (CONTINUED)

SPL TOPICS HOUSING HD FS 590B VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP FAMLY FINAN HD FS 590C VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP HUMAN DEVEL HD FS 590D VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP CHILD DEVEL HD FS 590E VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP EARLY EDUC HD FS 590F VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP EARLY SP ED HD FS 590G VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP HUMAN,FAMILY HD FS 590I VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPICS THERAPY HD FS 590M VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP FAMLY POLCY HD FS 590N VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERNSHP FAM STUDI HD FS 591A VAR. CREDITS  
Prereq: 10 GRAD CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERN FAMILY FINAN HD FS 591C VAR. CREDITS  
Prereq: 10 GRAD CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERNSHP HUM DEVEL HD FS 591D VAR. CREDITS  
Prereq: 10 GRAD CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERNSHP CHILD DEV HD FS 591E VAR. CREDITS  
Prereq: 10 GRAD CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERNSHP EARLY ED HD FS 591F VAR. CREDITS  
Prereq: 10 GRAD CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERN EARLY SPL ED HD FS 591G VAR. CREDITS  
Prereq: 10 GRAD CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERN HUM DV,FAMLY HD FS 591I VAR. CREDITS  
Prereq: 10 GRAD CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT HD FS 599 VAR. CREDITS  
Prereq: 9 GRADUATE CREDITS IN HD FS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP FAMILY STDI HD FS 690A VAR. CREDITS  
Prereq: INSTR PERMISSN, ENROLLMENT IN PH.D. PROG  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOPICS HOUSING HD FS 690B VAR. CREDITS  
Prereq: INSTR PERMISSN, ENROLLMENT IN PH.D. PROG  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP FAMLY FINAN HD FS 690C VAR. CREDITS  
Prereq: INSTR PERMISSN, ENROLLMENT IN PH.D. PROG  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP HUMAN DEVEL HD FS 690D VAR. CREDITS  
Prereq: INSTR PERMISSN, ENROLLMENT IN PH.D. PROG  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP CHILD DEVEL HD FS 690E VAR. CREDITS  
Prereq: INSTR PERMISSN, ENROLLMENT IN PH.D. PROG  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP EARLY EDUC HD FS 690F VAR. CREDITS  
Prereq: INSTR PERMISSN, ENROLLMENT IN PH.D. PROG  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP EARLY SP ED HD FS 690G VAR. CREDITS  
Prereq: INSTR PERMISSN, ENROLLMENT IN PH.D. PROG  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## HUMAN DEVELOPMENT &amp; FAMILY STUDIES (CONTINUED)

ADV TOP HUMAN,FAMLY HD FS 690I VAR. CREDITS  
Prereq: INSTR PERMISSN, ENROLLMENT IN PH.D. PROG  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOPICS THERAPY HD FS 690M VAR. CREDITS  
Prereq: INSTR PERMISSN, ENROLLMENT IN PH.D. PROG  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP FAMLY POLCY HD FS 690N VAR. CREDITS  
Prereq: INSTR PERMISSN, ENROLLMENT IN PH.D. PROG  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COLLEG TCH INTERNSP HD FS 691A VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH INTERNSHIP HD FS 691B VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CP&FAM THRPY INTERN HD FS 691C VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PRO EXPER INTERNSHP HD FS 691D VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH FAMILY STUDIE HD FS 699A VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH HOUSING HD FS 699B VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH FAMILY FINANC HD FS 699C VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH HUMAN DEV HD FS 699D VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH CHILD DEV HD FS 699E VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES EARLY CHLDHD ED HD FS 699F VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES EARLY CH SPL ED HD FS 699G VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES HUM DEV&FAM STU HD FS 699I VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES CPL&FAM THERAPY HD FS 699M VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH FAMILY POLICY HD FS 699N VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## HUMAN SCIENCES

INT'L LEADRSH SEMNR H SCI 482 3 CREDITS  
Prereq: PERMISSION OF THE SEMINAR LEADER  
Note: Meets international perspectives reqmt  
5901005 ARRANGED  
MEETS: DATES TO BE ANN.

5901800 CN ARRANGED HAGEDORN L  
MEETS: JULY 15-AUG 3  
Note: SEC CN TAUGHT IN CHINA, BEIJING. BEIJING  
FOREIGN STUDIES UNIVERSITY. TITLE: CHINESE  
LANGUAGE & CULTURE APPRECIATION: 2013 SUMMER  
INTENSIVE STUDY ABROAD PROGRAM  
Study Abroad Administrative Fee Applies

IND STDY ENTREPRNSH H SCI 490E 1- 4 CREDITS  
5101005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Instructor permission required.

INT'L LEADRSH SEMNR H SCI 582 3 CREDITS  
Prereq: PERMISSION OF THE SEMINAR LEADER  
5933005 ARRANGED  
MEETS: DATES TO BE ANN.

5933800 CN ARRANGED HAGEDORN L  
MEETS: JULY 15-AUG 3  
Note: SEC CN TAUGHT IN CHINA, BEIJING. BEIJING  
FOREIGN STUDIES UNIVERSITY. TITLE: CHINESE  
LANGUAGE & CULTURE APPRECIATION: 2013 SUMMER  
INTENSIVE STUDY ABROAD PROGRAM  
Study Abroad Administrative Fee Applies

**IMMUNOBIOLOGY**

RESEARCH IMBIO 699 VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**INDUSTRIAL ENGINEERING**

COOPERATIVE EDUC I E 298 R CREDIT  
 Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING CAREER SERVICES  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ENGR ECONOMIC ANALY I E 305 3 CREDITS  
 Prereq: MATH 166  
 Note: Available for nonmajor graduate credit  
 4425005 MTWRF 11:00-12:00  
 MEETS: MAY 20-JULY 12

SUMMER INTERNSHIP I E 396 R CREDIT  
 Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING CAREER SERVICES  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN I E 398 R CREDIT  
 Prereq: HRI 298, PERMISSN OF DEPARTMNT AND ENGINEERING CAREER SERVICES  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

MANUFACT SYSTM ENGR I E 448 3 CREDITS  
 Prereq: I E 248, I E 305  
 Note: Available for nonmajor graduate credit  
 6090005 MTWRF 8:40-9:40  
 MEETS: MAY 20-JULY 12

IND STDY MANUFACTRG I E 490A 1- 5 CREDITS  
 Prereq: SR CLASSIFICATION, PERMISSION OF INSTR  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU HUMAN FACTR I E 490B 1- 5 CREDITS  
 Prereq: SR CLASSIFICATION, PERMISSION OF INSTR  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU OPER RESRCH I E 490C 1- 5 CREDITS  
 Prereq: SR CLASSIFICATION, PERMISSION OF INSTR  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU ENTPRSE CMP I E 490D 1- 5 CREDITS  
 Prereq: SENIOR CLASSIFICATION, PERMISSION OF INSTRUCTOR  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STDY ENGR MGT I E 490E 1- 5 CREDITS  
 Prereq: SR CLASSIFICATION, PERMISSION OF INSTR  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS I E 490H 1- 5 CREDITS  
 Prereq: SR CLASSIFICATION, PERMISSION OF INSTR  
 UNIV HONORS PROGRAM MEMBERSHIP  
 Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN I E 498 R CREDIT  
 Prereq: I E 298, PERMISSN OF DEPRMTNT AND ENGINEERING CAREER SERVICES  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS I E 590 1- 3 CREDITS  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREAT COMP IND ENGR I E 599A VAR. CREDITS  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREAT COMP OPER RES I E 599C VAR. CREDITS  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADVANCED TOPICS I E 690 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**INDUSTRIAL ENGINEERING**

(CONTINUED)

ENGINEER INTERNSHIP I E 697 R CREDIT  
 Prereq: PERMISSION OF DEPARTMENT  
 Note: Department permission required.  
 Satisfactory-Fail Only.  
 7999005 ARRANGED  
 MEETS: MAY 20-AUG 9

INDUS ENGR RESEARCH I E 699A VAR. CREDITS  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

OPERATIONS RESEARCH I E 699C VAR. CREDITS  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**INFORMATION ASSURANCE**

INFO ASSURNC INTERN INFAS 697 R CREDIT  
 Prereq: PERMISSN OF DEPT, GRADUATE CLASSIFICATION  
 Satisfactory-Fail Only.  
 8082005 A ARRANGED  
 MEETS: MAY 20-AUG 9

**INTEGRATED STUDIO ARTS**

PRIN 3D ANIMATION ARTIS 408 3 CREDITS  
 Prereq: ARTIS 308  
 Note: Available for nonmajor graduate credit  
 Instructor permission required 1st week.  
 1834005 MTWRF 1:20-3:20 CALL A  
 MEETS: MAY 20-JULY 12

INDEP STDY CERAMICS ARTIS 490B 1- 6 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
 ON REQ'D FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND ST COMPUTER A&D ARTIS 490C 1- 6 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
 ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY DRAWING ARTIS 490D 1- 6 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
 ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMENT  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STDY TEXTILES ARTIS 490E 1- 6 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
 ON REQ'D FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
 Note: Instructor permission required 1st week.  
 Materials and equipment use fee \$50.00  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND ST ILLUSTRATION ARTIS 490F 1- 6 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
 ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY METALS ARTIS 490G 1- 6 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
 ON REQ'D FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS ARTIS 490H 1- 6 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
 ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMNT.  
 MEMBERSHIP IN UNIVERSITY HONORS PROGRAM.  
 Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
 Materials and equipment use fee \$25.00  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STDY PAINTING ARTIS 490I 1- 6 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
 ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMENT  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU PHOTOGRAPHY ARTIS 490J 1- 6 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
 ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
 Note: Materials fee \$45.00  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU PRINTMAKING ARTIS 490K 1- 6 CREDITS  
 Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
 ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMENT  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## INTEGRATED STUDIO ARTS

(CONTINUED)

INDEP STDY FURNITUR ARTIS 490L 1- 6 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQ'D FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
Note: COURSE ONLY OFFERED FOR 1 CREDIT SUMMER 2013  
Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STU MIXED MEDIA ARTIS 490M 1- 6 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
Note: Materials and equipment use fee \$25.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

WORKSHOP: METALS ARTIS 493G 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: COURSE ONLY OFFERED FOR 2 CREDITS SUMMER 2013  
Instructor permission required 1st week.  
8014005 MTWRF 9:00-12:00 MUENCH J  
MTWRF 1:00-5:00 MUENCH J  
MEETS: MAY 20-31  
Note: TOPIC: MOVING METALS

WORKSHOP: PAINTING ARTIS 493I 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013  
8159005 MTWRF 9:00-11:50 JONES B  
MEETS: MAY 20-JULY 12  
Note: TOPIC: PASTELS

SPL TOP COMPUTR A&D ARTIS 590C VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN ART AND/OR DSGN,  
OR EVIDENCE OF SATISFACTORY EQUIV IN SPECIALZD  
AREA. WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMT.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPCL TOPICS DRAWING ARTIS 590D VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN ART AND/OR DSGN,  
OR EVIDENCE OF SATISFACTORY EQUIVALENCY IN SPECIALZD  
AREA. WRITTEN APPROVAL OF INSTRUCTOR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMT.  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC ILLUSTRATN ARTIS 590F VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN ART AND/OR DSGN,  
OR EVIDENCE OF SATISFACTORY EQUIV IN SPECIALZD  
AREA. WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMT.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPECL TOPICS METALS ARTIS 590G VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN ART AND/OR DSGN,  
OR EVIDENCE OF SATISFACTORY EQUIV IN SPECIALZD  
AREA. WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMT.  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOPICS PAINTING ARTIS 590I VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN ART AND/OR DSGN,  
OR EVIDENCE OF SATISFACTORY EQUIV IN SPECIALZD  
AREA. WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMT.  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP PHOTOGRAPHY ARTIS 590J VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN ART AND/OR DSGN,  
OR EVIDENCE OF SATISFACTORY EQUIV IN SPECIALZD  
AREA. WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMT.  
Note: Materials fee \$45.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP PRINTMAKING ARTIS 590K VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN ART AND/OR DSGN,  
OR EVIDENCE OF SATISFACTORY EQUIV IN SPECIALZD  
AREA. WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMT.  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPCL TOPCS FURNITUR ARTIS 590L VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN ART AND/OR DSGN,  
OR EVIDENCE OF SATISFACTORY EQUIV IN SPECIALZD  
AREA. WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMT.  
Note: COURSE ONLY OFFERED FOR 1 CREDIT SUMMER 2013  
Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP MIXED MEDIA ARTIS 590M VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN ART AND/OR DSGN,  
OR EVIDENCE OF SATISFACTORY EQUIV IN SPECIALZD  
AREA. WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMT.  
Note: Materials and equipment use fee \$25.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## INTERDISCIPLINARY GRADUATE STUDIES

CREATIVE COMPONENT IGS 599 VAR. CREDITS  
4480005 ARRANGED  
MEETS: MAY 20-AUG 9

THESIS RESEARCH IGS 699 VAR. CREDITS  
4481005 ARRANGED  
MEETS: MAY 20-AUG 9

## INTERIOR DESIGN

INT DSGN INTERNSHIP ARTID 460 3 CREDITS  
Prereq: 350, 360, 365  
1846005 A ARRANGED  
MEETS: MAY 20-AUG 9

INDEPENDENT STUDY ARTID 490 1- 6 CREDITS  
Prereq: WRITTEN APPROVAL OF INSTR AND DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEMESTER OF ENROLLMENT  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS ARTID 590 VAR. CREDITS  
Prereq: BACHELOR'S DEGREE IN INTERIOR DSGN  
OR EVIDENCE OF SATISFACTORY EQUIV IN SPECIALZD  
AREA. WRITTEN APPROVAL OF INSTR & DEPT CHAIR  
ON REQUIRED FORM IN ADVANCE OF SEM OF ENROLLMT.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT ARTID 599 VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADVANCED TOPICS ARTID 690 VAR. CREDITS  
Prereq: MFA CLASSIFICATION, PERMISSION OF INSTR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

RESEARCH: THESIS ARTID 699A VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

RESEARCH: THESIS-EXH ARTID 699B VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## IOWA LAKESIDE LABORATORY

NATUR HIST PRAIRIES IA LL 293G 1- 2 CREDITS  
Note: COURSE ONLY OFFERED FOR 1 CREDIT SUMMER 2013  
Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
9092005 MTWRF 8:00-5:00  
MEETS: JUNE 17-21  
Note: Tuition Category: Iowa Lakeside Lab

NATUR HIS MOLEC ECO IA LL 293W 1- 2 CREDITS  
Note: COURSE ONLY OFFERED FOR 2 CREDITS SUMMER 2013  
Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
9611005 MTWRF 8:00-5:00  
MEETS: JUNE 3-14  
Note: Tuition Category: Iowa Lakeside Lab

N HIS VERT CMUN ECO IA LL 293Y 1- 2 CREDITS  
Note: COURSE ONLY OFFERED FOR 2 CREDITS SUMMER 2013  
Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
9607005 MTWRF 8:00-5:00  
MEETS: MAY 20-31  
Note: Tuition Category: Iowa Lakeside Lab

UNDERGRAD INTERNSHP IA LL 303I 1- 5 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, SOPH STANDING  
Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
3683005 ARRANGED  
Note: Tuition Category: Iowa Lakeside Lab

ECOLOGY IA LL 312I 4 CREDITS  
Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
3707005 1 MTWRF 8:00-5:00  
MEETS: MAY 20-JUNE 14  
Note: Tuition Category: Iowa Lakeside Lab

PLANT TAXONOMY IA LL 367 4 CREDITS  
Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
3748005 MTWRF 8:00-5:00  
MEETS: JUNE 17-JULY 12  
Note: Tuition Category: Iowa Lakeside Lab

PRAIRIE ECOLOGY IA LL 422I 4 CREDITS  
Prereq: FAMILIARITY WITH BASIC PRINCIPLES IN  
BIOLOGICAL SCIENCES AND ECOLOGY  
Note: Available for nonmajor graduate credit  
Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
3830005 MTWRF 8:00-5:00  
MEETS: JUNE 17-JULY 12  
Note: Tuition Category: Iowa Lakeside Lab



## IOWA LAKESIDE LABORATORY (CONTINUED)

ARCHAEOLOGY IA LL 427I 4 CREDITS  
 Note: Available for nonmajor graduate credit  
 Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
 3840005 MTWRF 8:00-5:00  
 MEETS: JUNE 17-JULY 12  
 Note: Tuition Category: Iowa Lakeside Lab

UG INDEP STDY IA LL IA LL 490I 1- 4 CREDITS  
 Prereq: JR OR SR CLASSIFICATION AND PERMISSION OF INSTRUCTOR  
 Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
 3984005 1 ARRANGED  
 MEETS: MAY 20-JUNE 14  
 Note: Tuition Category: Iowa Lakeside Lab

3984010 2 ARRANGED  
 MEETS: JUNE 17-JULY 12  
 Note: Tuition Category: Iowa Lakeside Lab

UNDERGRAD RESEARCH IA LL 499 1- 4 CREDITS  
 Prereq: JUNIOR OR SENIOR CLASSIFICATION AND PERMISSION OF INSTRUCTOR  
 Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
 3565005 1 ARRANGED  
 MEETS: MAY 20-JUNE 14  
 Note: Tuition Category: Iowa Lakeside Lab

3565010 2 ARRANGED  
 MEETS: JUNE 17-JULY 12  
 Note: Tuition Category: Iowa Lakeside Lab

FRESHWATER ALGAE IA LL 501I 4 CREDITS  
 Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
 3853005 MTWRF 8:00-5:00  
 MEETS: JUNE 24-JULY 12  
 Note: Tuition Category: Iowa Lakeside Lab

GRADUATE INTERNSHPS IA LL 503 1- 5 CREDITS  
 Prereq: PERMISN OF INSTRUCTOR & GRADUATE STANDING  
 Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
 3859005 ARRANGED  
 Note: Tuition Category: Iowa Lakeside Lab

AQUATIC ECOLOGY IA LL 508I 4 CREDITS  
 Prereq: COURSES IN ECOLOGY, CHEMISTRY AND PHYSICS  
 Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
 3860005 MTWRF 8:00-5:00  
 MEETS: MAY 20-JUNE 14  
 Note: Tuition Category: Iowa Lakeside Lab

ENVIRON DATA ANALYS IA LL 532 2 CREDITS  
 Prereq: AN UNDERGRADUATE COURSE IN STATISTICS, UNDERSTANDING OF BASIC CONCEPTS SUCH AS CORRELATION AND REGRESSION, AND FAMILIARITY WITH PC-BASED SOFTWARE FOR DATA ANALYSIS  
 Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
 8207005 MTWRF 8:00-5:00  
 MEETS: JUNE 24-JULY 6  
 Note: NO MEETING ON SATURDAY, JUNE 29  
 Tuition Category: Iowa Lakeside Lab

ECOL & SYST DIATOMS IA LL 580I 4 CREDITS  
 Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
 3888005 MTWRF 8:00-5:00  
 MEETS: MAY 20-JUNE 14  
 Note: Tuition Category: Iowa Lakeside Lab

GRAD IND STDY IA LL IA LL 590I 1- 4 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR & GRAD CLASSIF  
 Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
 3977005 1 ARRANGED  
 MEETS: MAY 20-JUNE 14  
 Note: Tuition Category: Iowa Lakeside Lab

3977010 2 ARRANGED  
 MEETS: JUNE 17-JULY 12  
 Note: Tuition Category: Iowa Lakeside Lab

RESEARCH - IA LL IA LL 699I 1- 4 CREDITS  
 Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
 3965005 1 ARRANGED  
 MEETS: MAY 20-JUNE 14  
 Note: Tuition Category: Iowa Lakeside Lab

3965010 2 ARRANGED  
 MEETS: JUNE 17-JULY 12  
 Note: Tuition Category: Iowa Lakeside Lab

## JOURNALISM &amp; MASS COMMUNICATION

MASS MEDIA & SOCIETY JL MC 101 3 CREDITS  
 4656005 1 MTWRF 12:10-2:10  
 MEETS: JUNE 17-JULY 12

REPORT&WRIT MASS MD JL MC 201 3 CREDITS  
 Prereq: ENGL 250 (OR TESTOUT) AND JL MC 110  
 Note: FOR ADVRT, JL MC, P ADV, P JMC MAJORS ONLY  
 Department permission required.  
 4658005 1 MTWR 8:40-10:50  
 MEETS: MAY 20-JULY 12  
 Syllabus: <http://www.jlmc.iastate.edu/undergrad/syllabi.html>

SKIL DV:MLTMED INTL JL MC 390K 3 CREDITS  
 Prereq: C+ OR BETTER IN 201; INSTRUCTOR PERMISSN  
 9574800 IT ARRANGED CHAMBERLIN D  
 MEETS: JUNE 6-JULY 4  
 Note: SEC IT TAUGHT IN ITALY, URBINO, LE MARCHE REGION OF ITALY. TOPIC: THE URBINO PROJECT, MULTIMEDIA REPORTING IN ITALY. STUDY ABROAD SUMMER 2013.  
 Study Abroad Administrative Fee Applies

INDEP STDY CMUNCATN JL MC 490 VAR. CREDITS  
 Prereq: JUNIOR CLASSIFICATION AND CONTRACT WITH SUPERVISING PROFESSOR TO REGISTER  
 Note: NO MORE THAN 3 CREDITS OF JL MC 490 MAY BE APPLIED TOWARD A DEGREE IN JL MC OR ADVERTISING  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PROFES MEDIA INTERN JL MC 499 3 CREDITS  
 Prereq: JL MC MAJORS: C+ OR BETTER IN 202 OR 206 OR 321; ADVRT MAJORS: 301, C+ OR BETTER IN JL MC 201; ALL STUDENTS: JR CLASSIFICATION, FORMAL FACULTY ADVISER APPROVAL OF WRITTEN PROPOSAL  
 Note: Department permission required.  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP MEDIA STUDIE JL MC 590A VAR. CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP PRO SPICALZ JL MC 590B VAR. CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP RSRCH MTHD JL MC 590C VAR. CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP TECHNQ&STYLE JL MC 590D VAR. CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP SPLZ COMMUNC JL MC 590E VAR. CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PROFESNL INTERNSHIP JL MC 591 1- 2 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: COURSE ONLY OFFERED FOR 2 CREDITS SUMMER 2013  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT JL MC 599 VAR. CREDITS  
 Prereq: APPROVED CREDIT COMPONENT PROPOSAL  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

THESIS RESEARCH JL MC 699 VAR. CREDITS  
 Prereq: APPROVED THESIS PROPOSAL  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## KINESIOLOGY

SWIMMING I KIN 101 1 CREDIT  
 Satisfactory-Fail Only.  
 5660005 1 MTWR 8:40-9:40  
 MEETS: JUNE 17-AUG 1  
 Note: Materials and equipment use fee \$25.00

GOLF KIN 135 1 CREDIT  
 Satisfactory-Fail Only.  
 5678005 1 MTWR 8:40-9:40  
 MEETS: MAY 20-JULY 3  
 Note: Materials and equipment use fee \$50.00

TENNIS KIN 158 1 CREDIT  
 Satisfactory-Fail Only.  
 5690005 1 MTWR 9:50-10:50  
 MEETS: MAY 20-JULY 3  
 Note: Materials and equipment use fee \$25.00

## KINESIOLOGY (CONTINUED)

WALKING FOR FITNESS KIN 164 1 CREDIT  
Satisfactory-Fail Only.  
8867005 1 MTWR 7:30-8:30  
MEETS: MAY 20-JULY 3  
Note: Equipment use fee \$25.00

WEIGHT TRAINING KIN 166 1 CREDIT  
Note: CREDIT FOR ONLY ONE OF THE FOLLOWING MAY BE  
APPLIED TOWARD GRADUATION: ATH 101, SKILL TECHNIQUE  
COURSE IN THE SAME SPORT, KIN 166  
Satisfactory-Fail Only.  
5696005 1 MTWR 7:30-8:30  
MEETS: MAY 20-JULY 3  
Note: Materials and equipment use fee \$25.00

BASIC ATHLETIC TRAIN KIN 220 2 CREDITS  
Prereq: BIOL 155 OR BIOL 255 AND BIOL 256  
Note: Instructor permission required 1st week.  
5729005 1 MTWRF 9:50-11:50  
MEETS: MAY 20-JUNE 14  
Note: Materials fee \$50.00

PHYS FITNESS & COND KIN 258 2 CREDITS  
Prereq: MAJOR IN KINESIOLOGY OR HEALTH ONLY  
Note: CREDIT FOR EITHER EX SP/KIN 163 OR EX SP/KIN 258,  
BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION.  
RESTRICTED TO A TR, D EXA, D EXH, KIN H, P ATR,  
PDEXA, PDEXH MAJORS ONLY.  
5732005 1 MTWRF 9:50-11:50  
MEETS: MAY 20-JUNE 14  
Note: Materials and professional support fee \$25.00

ADV STRNGTH TRAINNG KIN 266 2 CREDITS  
Prereq: KIN 258  
7421005 MTWR 9:50-12:20  
MEETS: MAY 20-JUNE 14  
Note: Materials and equipment use fee \$25.00

ELEM&PRESCH MVMT ED KIN 284 3 CREDITS  
Prereq: 3 CREDITS IN HUMAN DEVEL & FAMILY STUDIES  
Note: CREDIT FOR EITHER EX SP/KIN 275/312 OR EX SP/KIN  
284, BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION  
5737005 1 MTWRF 1:20-4:20  
MEETS: JUNE 17-JULY 12  
Note: Materials and equipment use fee \$25.00

PRE-INTERN KINESIOL KIN 285 1- 2 CREDITS  
Prereq: KINESIOLOGY AND HEALTH MAJOR, AND  
PERMISSION OF INTERNSHIP COORDINATOR  
Satisfactory-Fail Only.  
8750005 ARRANGED  
MEETS: MAY 20-AUG 9

COACH THY&ADMIN ISS KIN 315 3 CREDITS  
5372005 1 MTWRF 8:00-12:00  
ARRANGED  
MEETS: MAY 20-31

BIOMECHANICS KIN 355 3 CREDITS  
Prereq: PHYS 111 OR PHYS 115  
Note: Available for nonmajor graduate credit  
5752005 1 MTWR 9:50-11:05  
MEETS: MAY 20-JULY 12

PHYSIOLOGY EXERCISE KIN 358 3 CREDITS  
Prereq: BIOL 255, BIOL 255L, BIOL 256 AND  
BIOL 256L  
Note: Available for nonmajor graduate credit  
5766005 1 MTWRF 9:50-11:10  
MEETS: MAY 20-JUNE 28

EXERCISE PSYCHOLOGY KIN 366 3 CREDITS  
Prereq: PSYCH 101 OR PSYCH 230  
Note: Available for nonmajor graduate credit  
7190005 MTWRF 8:40-10:50  
MEETS: MAY 20-JUNE 14

MOTOR CNTROL LIFESP KIN 372 3 CREDITS  
Prereq: PSYCH 101 OR PSYCH 230, BIOL 255,256  
Note: Available for nonmajor graduate credit  
9623005 1 MTWR 8:40-10:20  
MEETS: MAY 20-JUNE 28

INTERNSH FITNSS MGT KIN 485A 1-16 CREDITS  
Prereq: SENIOR CLASSIFICATN, ADVANCE REGISTRATN,  
C- OR BETTER IN KIN 458 AND KIN 459, MAJOR IN  
KINESIOLOGY AND HEALTH, CUM GPA 2.0  
Satisfactory-Fail Only.  
5772005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Instructor permission required.

INTERNSHP SPORT&ACT KIN 485B 1-16 CREDITS  
Prereq: SENIOR CLASSIFICATN, ADVANCE REGISTRATN,  
MAJOR IN KINESIOLOGY AND HEALTH, CUM GPA 2.0  
Satisfactory-Fail Only.  
5773005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Instructor permission required.

## KINESIOLOGY (CONTINUED)

ATHL TRAIN COMPETNC KIN 489 1 CREDIT  
Prereq: PERMISS OF ATHLETIC TRAIN PROG DIRECTOR,  
SENIOR CLASSIFICATION  
Satisfactory-Fail Only.  
3220005 ARRANGED  
MEETS: JUNE 17-AUG 9

IND STUDY EXER&SPRT KIN 490A 1- 3 CREDITS  
Prereq: 6 CREDITS FROM KIN ADVANCED CORE AND  
PERMISSION OF COORDINATOR  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STUDY COACHING KIN 490B 1- 3 CREDITS  
Prereq: 6 CREDITS FROM KIN ADVANCED CORE AND  
PERMISSION OF COORDINATOR  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS KIN 490H 1- 3 CREDITS  
Prereq: 6 CREDITS FROM KIN ADVANCED CORE AND  
PERMISSION OF COORDINATOR  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS P E KIN 590A 1- 3 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TP HEALTH PROMO KIN 590B 1- 3 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP EXERC PHYSL KIN 590D 1- 3 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP SPORT SOCIO KIN 590E 1- 3 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP SPORT PSYCH KIN 590F 1- 3 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP MOTOR BEHAV KIN 590G 1- 3 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP BIOMECHANCS KIN 590H 1- 3 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP RSRCH ETHCS KIN 590I 1- 3 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUPV FIELD EXP P E KIN 591A 1- 6 CREDITS  
Prereq: 10 GRAD CR IN KIN AND/OR RELATED AREAS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUP FLD EXP EX PHYS KIN 591D 1- 6 CREDITS  
Prereq: 10 GRAD CR IN KIN AND/OR RELATED AREAS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT KIN 599 1- 3 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH KIN 699 1- 6 CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## LANDSCAPE ARCHITECTURE

LAND ARCH INTERNSHP L A 444A R CREDIT  
Prereq: L A 341 OR PERMISSION OF ADVISER AND  
CHAIR  
3036005 1 ARRANGED  
MEETS: MAY 20-AUG 9

L ARCH STUDY ABROAD L A 444B R CREDIT  
Prereq: L A 341 OR PERMISSION OF ADVISER AND  
CHAIR  
6212005 ARRANGED  
MEETS: MAY 20-AUG 9

LA NAT'L STDT XCHNG L A 444C R CREDIT  
Prereq: L A 341 OR PERMISSION OF ADVISER AND  
CHAIR  
6213005 ARRANGED  
MEETS: MAY 20-AUG 9

## LANDSCAPE ARCHITECTURE

(CONTINUED)

IND STDY LAND DSGN L A 490A 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STDY PLNTNG DSN L A 490B 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STUDY CONSTRUCT L A 490C 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HISTORY L A 490D 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STU LANDSC PLAN L A 490E 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STDY URBAN DSGN L A 490F 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEP STDY GRAPHICS L A 490G 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS L A 490H 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
MEMBERSHIP IN UNIV HONORS PROGRAM  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STUDY INTERDISC L A 490I 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STU INT'L STUDI L A 490J 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STDY CMPTR APPL L A 490K 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STDY ECO DESIGN L A 490L 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STDY SOCIAL/BHV L A 490M 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STU NATU RESRCE L A 490N 1- 6 CREDITS  
Prereq: INSTR & DEPT CHAIR APPROVAL ON REQ'D FORM  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

THESIS,CRTV CMP,TUT L A 580 1- 4 CREDITS  
Prereq: PERMISSION OF MAJOR PROFESSOR  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP LANDSC DSGN L A 590A 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC PLNTNG DSN L A 590B 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC CONSTRUCTN L A 590C 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPCL TOPICS HISTORY L A 590D 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## LANDSCAPE ARCHITECTURE

(CONTINUED)

SPL TOP LANDSC PLAN L A 590E 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP URBAN DSGN L A 590F 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOPICS GRAPHICS L A 590G 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP INTERDISCIP L A 590I 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP INT'L STUDI L A 590J 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC CMPTR APPL L A 590K 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC ECO DESIGN L A 590L 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP SOCIAL/BEHV L A 590M 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP NATU RESRCE L A 590N 1- 6 CREDITS  
Prereq: GRADUATE STANDING  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT L A 599 1- 8 CREDITS  
Prereq: PERMISSION OF MAJOR PROF  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

THESIS RESEARCH L A 699 1- 8 CREDITS  
Prereq: PERMISSION OF MAJOR PROFESSOR  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## LATIN

INDEPENDENT STUDY LATIN 490 1- 6 CREDITS  
Prereq: 6 CR IN LATIN; PERMISSION OF DEPT CHAIR  
Note: NO MORE THAN 9 CREDITS IN LATIN 490 MAY BE  
APPLIED TOWARD GRADUATION  
Permission of department chair required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## LIBERAL ARTS &amp; SCIENCES

SPECIAL PROJECTS LAS 290D 1- 3 CREDITS  
Prereq: FRESHMAN OR SOPHOMORE CLASSIFICATION;  
PERMISSION OF LAS DEAN  
7384005 1 ARRANGED  
MEETS: MAY 20-AUG 9

SPL PROJ CATT CENTR LAS 290G 1- 3 CREDITS  
Prereq: FRESHMAN OR SOPHOMORE CLASSIFICATION,  
PERMISSION OF THE DIRECTOR OF THE CATT CENTER  
Note: PERMISSION OF DIRECTOR OF THE CATT CENTER  
REQUIRED TO ADD. PROCESS APPROVED ADD SLIP IN  
10 ENROLLMENT SERVICES CENTER.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INTERNSHIP/CO-OP LAS 298 R CREDIT  
Prereq: PERMISSION OF LAS CAREER SERVICES,  
SOPHOMORE CLASSIFICATION  
Note: Instructor permission required.  
Satisfactory-Fail Only.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

THE HOLOCAUST LAS 385 3 CREDITS  
Note: Meets international perspectives reqmt  
4837005 1 TR 6:00-9:00PM  
MEETS: MAY 20-JULY 12

STDY ABROAD HUMANIT LAS 395B 1- 4 CREDITS  
Note: Instructor permission required.  
4289805 DE ARRANGED LOONEY M  
MEETS: MAY 10-31  
Note: SEC DE TAUGHT IN BERLIN, GERMANY. BERLIN'S  
HISTORY AND CULTURE. STUDY ABROAD SUMMER 2013  
OFFERED FOR 3 CREDITS.  
Study Abroad Administrative Fee Applies  
4289025 RG ARRANGED  
MEETS: MAY 28-JULY 18  
Note: SECTION RG IS REGENTS STUDY ABROAD IN PERU.  
OFFERED FOR 3 CREDITS.

## LIBERAL ARTS &amp; SCIENCES

(CONTINUED)

- STDY ABROAD HUMANIT LAS 395B 1- 4 CREDITS  
Tuition Category: Regents Summer Study Abroad  
4289800 SP ARRANGED BREMER J  
MEETS: JUNE 3-28  
Note: SEC SP TAUGHT IN MADRID, SPAIN; LONDON, ENLAND.  
TOPIC: FROM COLUMBUS TO THE COLD WAR: THE UNITED STATES & THE ATLANTIC WORLD (1500-2000) STUDY ABROAD SUMMER 2013  
Study Abroad Administrative Fee Applies
- INTERNSHIP/CO-OP LAS 398 R CREDIT  
Prereq: PERMISSION OF LAS CAREER SERVICES,  
JUNIOR CLASSIFICATION  
Note: Instructor permission required.  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- INDEPENDENT STUDY LAS 490A VAR. CREDITS  
Prereq: PERMISSION OF THE DEAN OF THE LAS COLLEGE  
Note: PERMISSION OF THE DEAN OF LAS REQUIRED TO ADD.  
PROCESS APPROVED ADD SLIP IN 10 ENROLLMENT SERVICES CENTER. NO MORE THAN 9 CREDITS OF LAS 490 MAY BE APPLIED TOWARD GRADUATION.  
College permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- IND STDY ENTREPRNSH LAS 490E VAR. CREDITS  
Prereq: PERMISSION OF THE DEAN OF THE LAS COLLEGE  
Note: PERMISSION OF THE DEAN OF LAS REQUIRED TO ADD.  
PROCESS APPROVED ADD SLIP IN 10 ENROLLMENT SERVICES CENTER. NO MORE THAN 9 CREDITS OF LAS 490 MAY BE APPLIED TOWARD GRADUATION.  
College permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- IND STUDY CATT CNTR LAS 490G VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: COURSE ONLY OFFERED FOR 1-3 CREDITS SUMMER 2013.  
NO MORE THAN 9 CREDITS OF LAS 490 MAY BE APPLIED TOWARD GRADUATION.  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- SERVICE LEARNING LAS 491A 1- 4 CREDITS  
Prereq: PERMISSION OF THE INSTRUCTOR  
Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- SRVC LRN INTL PERSP LAS 491C 1- 4 CREDITS  
Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013  
Meets international perspectives reqmt  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- INTERNSHIP/CO-OP LAS 498 R CREDIT  
Prereq: PERMISSION OF LAS CAREER SERVICES,  
SENIOR CLASSIFICATION  
Note: Instructor permission required.  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- INTERNSHIP LAS 499 1- 4 CREDITS  
Prereq: PERMISSION OF LAS CAREER SERVICES  
Note: PERMISSION OF LAS ASSOC DEAN ZORA ZIMMERMAN REQ'D  
College permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## LIBRARY

- INFORMATN LITERACY LIB 160 1 CREDIT  
Prereq: FOR STUDENTS WHOSE NATIVE LANGUAGE IS NOT ENGLISH: COMPLETION OF ENGL 101 REQUIREMENT.  
Satisfactory-Fail Only.  
4862005 1 MW 11:00-12:00  
ARRANGED  
MEETS: JUNE 17-JULY 12  
4862010 2 TR 1:20-2:20, ARRANGED  
MEETS: JUNE 17-JULY 12

## LINGUISTICS

- IND STU LINGUISTICS LING 490B VAR. CREDITS  
Prereq: 9 CR IN ENGL BEYOND ENGL 250 APPROPRIATE TO THE TOPIC, JR CLASSIFICATION, PERMISSION OF THE UNDERGRADUATE STUDIES COMMITTEE  
Note: Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- IND STDY LING ANTHR LING 490D 1- 5 CREDITS  
Prereq: 9 CREDITS IN ANTHROPOLOGY  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- LANGU ASSESS PRACTM LING 513 3 CREDITS  
Prereq: ENGL 519  
9060005 A ARRANGED  
MEETS: MAY 20-AUG 9

## LINGUISTICS

(CONTINUED)

- PRA TCH ENG 2ND LNG LING 588 3 CREDITS  
Prereq: 9 CREDITS TOWARD THE TESL CERTIFICATE;  
15 CREDITS TOWARD THE TESL/APPLIED LING MASTER'S DEGREE; OR COMPLETION OF ALL OTHER REQUIREMENTS FOR K-12 ESL TEACHER ENDORSEMENT.  
6550005 A ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Professional support, field trips &/or travel fee \$25.00
- SPL TOP TESL/LINGUI LING 590B VAR. CREDITS  
Prereq: PERMISSION OF THE GRADUATE STUDIES COMMITTEE ACCORDING TO GUIDELINES AVAILABLE IN THE DEPARTMENT OFFICE  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- PRACTCM TEC &LINGUI LING 688 3 CREDITS  
Prereq: ENGL 510, ENGL 626, OR EQUIVALENT; AT LEAST SECOND YR PH.D. STUDENT IN APPLIED LING & TECHNOLOGY  
6574005 A ARRANGED  
MEETS: MAY 20-AUG 9
- MANAGMT ORGANIZATNS MGMT 370 3 CREDITS  
Prereq: ECON 101 OR ECON 102 OR EQUIVALENT  
Note: COURSE NOT OPEN TO P BUS MAJORS  
5282005 A1 MTWRF 9:50-11:50  
MEETS: JUNE 17-JULY 12  
Note: SEC A1 RESTRICTED TO ACCT, AG B, AN S, AST, BUS S, BUS U, BUSEC, DY S, FIN, FS A, HORT, I TEC, LSCM, MGMT, MIS, MKT, OSCM, SCM UNDERGRAD MAJORS. CONCURRENT ENROLLMENT OR PRIOR CREDIT IN MKT 340 IS RECOMMENDED FOR THIS ENROLLMENT BLOCK. NEXT SEM ENROLLMENT BLOCK INCLUDES FIN 301 AND SCM 301.  
5282010 A2 MTWRF 9:50-11:50  
MEETS: JUNE 17-JULY 12  
Note: SECTN A2 FOR MAJORS OTHER THAN ACCT, AG B, AN S, AST, BUS S, BUS U, BUSAD, BUSEC, DY S, FIN, FS A, FS H, FSHNA, FSHNH, HORT, I BUS, I R, I TEC, LOMIS, LSCM, MGMT, MIS, MKT, OSCM, P BUS, SCIS, SCM
- INTERNATIONAL MGMT MGMT 414 3 CREDITS  
Note: GRADUATE STUDENTS GO TO 1200 GERDIN FOR PERMISSION TO ADD  
Available for nonmajor graduate credit  
5285005 A1 MTWRF 7:30-9:30  
MEETS: MAY 20-JUNE 14  
Note: SECTION A1 RESTRICTED TO I BUS, MGMT, AG B, I TEC UNDERGRAD MAJORS ONLY  
5285010 A2 MTWRF 7:30-9:30  
MEETS: MAY 20-JUNE 14  
Note: SECTION A2 RESTRICTED TO ACCT, BUS S, BUS U, BUSEC, FIN, LSCM, MIS, MKT, OSCM, SCM UNDERGRADS
- STRATEGIC MANAGEMNT MGMT 478 3 CREDITS  
Prereq: MGMT 370; ACCT 285; FIN 301; MKT 340; SCM 301; GRADUATING SENIOR  
Note: COURSE RESTRICTED TO SENIORS GRADUATING SUMMER 2013 IN THE COLLEGE OF BUSINESS  
5294005 A MTWRF 7:30-9:30  
MEETS: MAY 20-JUNE 14  
5294010 B MTWRF 7:30-9:30  
MEETS: JULY 15-AUG 9
- INDEPENDENT STUDY MGMT 490 1- 3 CREDITS  
Prereq: MGMT 370, SENIOR CLASSIFICATION,  
PERMISSION OF INSTRUCTOR  
Note: COURSE NOT OPEN TO GRADUATE STUDENTS  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- SPECIAL TOPICS MGMT 590 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: RESTRICTED TO BUSINESS COLLEGE GRADUATE STUDENTS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## MANAGEMENT

## MANAGEMENT INFORMATION SYSTEMS

- MGMT INFO SYSTEMS MIS 330 3 CREDITS  
Prereq: BUSAD 150 OR COM S 103  
4394005 A1 MTWRF 12:10-2:10  
MEETS: JUNE 17-JULY 12  
Note: SEC A1 RESTRICTED TO ACCT, AG B, AST, BUS S, BUS U, BUSEC, FIN, I TEC, LSCM, MGMT, MIS, MKT, OSCM, P BUS, SCM UNDERGRADS ONLY  
4394010 A2 MTWRF 12:10-2:10  
MEETS: JUNE 17-JULY 12  
Note: SECTION A2 RESTRICTED TO MAJORS OTHER THAN ACCT, AG B, AST, BUS S, BUS U, BUSAD, BUSEC, FIN, I R, I TEC, LOMIS, LSCM, MGMT, MIS, MKT, OSCM, P BUS, SCM, SCIS

## MANAGEMENT INFORMATION SYSTEMS (CONTINUED)

INDEPENDENT STUDY MIS 490 1- 3 CREDITS  
Prereq: MIS 330, SENIOR CLASSIFICATION,  
PERMISSION OF INSTRUCTOR  
Note: Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS MIS 590 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT MIS 599 3 CREDITS  
Prereq: GRADUATE CLASSIFICATION, PERMISSION OF  
SUPERVISORY COMMITTEE CHAIR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH PRACTICUM I MIS 650 1 CREDIT  
Prereq: ENROLLMENT IN THE PH D PROGRAM  
7555005 A ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH PRACTICUM II MIS 651 1 CREDIT  
Prereq: ENROLLMENT IN THE PH D PROGRAM  
7582005 A ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH MIS 699 3- 6 CREDITS  
Prereq: GRADUATE CLASSIFICATION, PERMISSION OF  
MAJOR PROFESSOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**MARKETING**

PRIN OF MARKETING MKT 340 3 CREDITS  
Prereq: CREDIT OR ENROLLMENT IN ECON 101  
Note: COURSE NOT OPEN TO P BUS MAJORS  
5352005 A1 MTWRF 7:30-9:30  
MEETS: JUNE 17-JULY 12  
Note: SEC A1 RESTRICTED TO ACCT, AG B, AN S, AST, BUS S,  
BUS U, BUSEC, DY S, FIN, FS A, HORT, I TEC, LSCM,  
MGMT, MIS, MKT, OSCM, P S A, SCM UNDERGRAD MAJORS.  
CONCURRENT ENROLLMENT OR PRIOR CREDIT IN MGMT 370 IS  
RECOMMENDED FOR THIS ENROLLMENT BLOCK. NEXT SEMESTER  
ENROLLMENT BLOCK INCLUDES FIN 301 AND SCM 301.  
5352010 A2 MTWRF 7:30-9:30  
MEETS: JUNE 17-JULY 12  
Note: SEC A2 FOR MAJORS OTHER THAN ACCT, AG B, AN S,  
AST, BUS S, BUS U, BUSAD, BUSEC, DY S, FIN, FS A,  
HORT, I BUS, I TEC, LOMIS, LSCM, MGMT, MIS, MKT,  
OSCM, P BUS, P S A, SCIS, SCM

STRATEGC MRKTING MGT MKT 443 3 CREDITS  
Prereq: MKT 444, MKT 447  
Note: COURSE RESTRICTED TO MKT SENIORS GRADUATING  
SUMMER 2013  
5358005 A MTWRF 12:10-2:10  
MEETS: MAY 20-JUNE 14

INDEPENDENT STUDY MKT 490 1- 3 CREDITS  
Prereq: MKT 340, SENIOR CLASSIFICATION;  
PERMISSION OF INSTRUCTOR  
Note: COURSE NOT OPEN TO GRADUATE STUDENTS  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS MKT 590 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: RESTRICTED TO BUSINESS COLLEGE GRADUATE STUDENTS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH PRACTICUM I MKT 650 1 CREDIT  
Prereq: ENROLLMENT IN THE PH D PROGRAM  
7655005 A ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH PRACTICUM II MKT 651 1 CREDIT  
Prereq: ENROLLMENT IN THE PH D PROGRAM  
7669005 A ARRANGED  
MEETS: MAY 20-AUG 9

**MATERIALS ENGINEERING**

PRIN MATRLS SCI&ENG MAT E 273 3 CREDITS  
Prereq: SOPHOMORE CLASSIFICATION; CHEM 167 OR  
CHEM 177; MATH 165  
Note: CREDIT FOR ONLY ONE OF THE FOLLOWING COURSES  
MAY BE APPLIED TOWARD GRADUATION: 215, 272, 273, 392  
3814005 MTWRF 8:40-9:40 CONSTANT A  
MEETS: MAY 20-JULY 12

COOPERATIVE EDUC MAT E 298 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING  
CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## MATERIALS ENGINEERING (CONTINUED)

COMPUT MTHDS MATRLS MAT E 316 3 CREDITS  
Prereq: MAT E 215  
Note: Available for nonmajor graduate credit  
6576800 IT ARRANGED GENALO L  
MEETS: MAY 16-JUNE 7  
Note: SEC IT TAUGHT IN TURIN, ITALY. TITLE:  
ENGINEERING STATISTICS & SUSTAINABILITY IN ITALY.  
STUDY ABROAD SUMMER 2013  
Study Abroad Administrative Fee Applies

PRIN MATRLS SCI&ENG MAT E 392 3 CREDITS  
Note: CREDIT FOR ONLY ONE OF THE FOLLOWING MAY BE  
APPLIED TOWARD GRADUATION: MAT E 215, MAT E 272,  
MAT E 392  
Meets international perspectives reqmt  
Satisfactory-Fail Only.  
8485800 GB ARRANGED CHUMBLEY S  
MEETS: JUNE 1-13  
Note: SEC GB TAUGHT IN BUNEL UNIVERSITY,  
UXBRIDGE, UNITED KINGDOM. MSE SUMMER PROGRAM  
IN LONDON. STUDY ABROAD SUMMER 2013.  
Study Abroad Administrative Fee Applies

SUMMER INTERNSHIP MAT E 396 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING  
CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC MAT E 398 R CREDIT  
Prereq: MAT E 298, PERMISSN OF DEPRMTNT AND  
ENGINEERING CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

MICROELEC FABRICATN MAT E 432 4 CREDITS  
Prereq: PHYS 222, MATH 267. RECOMMENDED: E E 332  
OR MAT E 334.  
Note: Available for nonmajor graduate credit  
6677005 1 ARRANGED  
MEETS: JUNE 17-AUG 9

INDEPENDENT STUDY MAT E 490 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC MAT E 498 R CREDIT  
Prereq: MAT E 398, PERMISSN OF DEPRMTNT AND  
ENGINEERING CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**MATERIALS SCIENCE & ENGINEERING**

TECHNLGY FOR TEACHR M S E 570 2 CREDITS  
Prereq: C I 201 OR C I 202  
8315005 MTWRF 8:30-11:30  
MTWRF 12:30-3:30  
MEETS: JULY 8-12

SPECIAL TOPICS M S E 590 VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOPICS MATRL SC M S E 690 VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ENGINEERG INTERNSHP M S E 697 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT, GRAD CLASSIFCTN  
Satisfactory-Fail Only.  
4307005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH M S E 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**MATHEMATICS**

INTRO PROB&MATRIC MATH 104 3 CREDITS  
Prereq: SATISFACTORY PERFORMANCE ON PLACEMENT  
EXAM, 2 YRS OF HS ALGEBRA, 1 YR OF HS GEOMETRY  
Note: CREDIT FOR EITHER MATH 104 OR MATH 150, BUT  
NOT BOTH, MAY BE APPLIED TOWARD GRADUATION. CREDITS  
EARNED IN MATH 104 CANNOT BE APPLIED TOWARD  
GRADUATION BY MATH MAJORS.  
5128005 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12

INTRO TO MATH IDEAS MATH 105 3 CREDITS  
Prereq: SATISFACTORY PERFORMANCE ON PLACEMENT  
EXAM, 2 YRS OF HS ALGEBRA, 1 YEAR OF HS GEOMETRY  
Note: CREDITS EARNED IN MATH 105 CANNOT BE APPLIED  
TOWARD GRADUATION BY MATH MAJORS  
5129005 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12

## MATHEMATICS

(CONTINUED)

- COLLEGE ALGEBRA MATH 140 3 CREDITS  
Prereq: SATISFACTORY PERFORMANCE ON PLACEMENT EXAM, 2 YRS OF HS ALGEBRA, 1 YR OF HS GEOMETRY  
Note: CREDITS EARNED IN MATH 140 CANNOT BE APPLIED TOWARD GRADUATION BY MATH MAJORS. STUDENTS IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES MAY NOT APPLY MATH 140 TOWARD GRADUATION IN GROUP III OF THE GENERAL ED REQUIREMENTS.
- 5132005 A MTWRF 9:50-10:50  
MEETS: JUNE 17-AUG 9
- 5132010 B MTWRF 11:00-12:00  
MEETS: MAY 20-JULY 12
- 5132020 C MTWRF 2:30-4:40  
MEETS: JULY 9-AUG 2
- 5132015 W ARRANGED  
MEETS: MAY 20-JULY 12  
Note: Course delivery is WWW
- TRIGONOMETRY MATH 141 2 CREDITS  
Prereq: SATISFACTORY PERFORMANCE ON PLACEMENT EXAM, 2 YEARS OF HIGH SCHOOL ALGEBRA; 1 YEAR OF HIGH SCHOOL GEOMETRY, OR ENROLLMENT IN MATH 140  
Note: CREDIT FOR EITHER MATH 141 OR MATH 142, BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION. CREDITS EARNED IN MATH 141 CANNOT BE APPLIED TOWARD GRADUATION BY MATH MAJORS. STUDENTS IN THE LAS COLLEGE MAY NOT APPLY MATH 141 TOWARD GRADUATION IN GROUP III OF THE GENERAL ED REQUIREMENTS.
- 5133005 A MTWRF 8:40-9:40  
MEETS: MAY 20-JUNE 28
- 5133015 B MTWRF 8:40-9:40  
MEETS: JUNE 17-JULY 26
- 5133020 C MTWRF 2:30-4:40  
MEETS: JULY 9-26
- 5133030 W ARRANGED  
MEETS: MAY 20-JULY 12  
Note: Course delivery is WWW
- TRIG&ANALY GEOMETRY MATH 142 3 CREDITS  
Prereq: SATISFACTORY PERFORMANCE ON PLACEMENT EXAM, 2 YEARS OF HIGH SCHOOL ALGEBRA, 1 YEAR OF HIGH SCHOOL GEOMETRY, OR ENROLLMENT IN MATH 140  
Note: CREDIT FOR EITHER MATH 141 OR MATH 142, BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION. CREDITS EARNED IN MATH 142 CANNOT BE APPLIED TOWARD GRADUATION BY MATH MAJORS. STUDENTS IN THE LAS COLLEGE MAY NOT APPLY MATH 142 TOWARD GRADUATION IN GROUP III OF THE GENERAL ED REQUIREMENTS.
- 5134005 A MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12
- 5134015 B MTWRF 8:40-9:40  
MEETS: JUNE 17-AUG 9
- 5134020 C MTWRF 2:30-4:40  
MEETS: JULY 9-AUG 2
- 5134030 W ARRANGED  
MEETS: MAY 20-JULY 12  
Note: Course delivery is WWW
- DISC MATH BUS&SOC S MATH 150 3 CREDITS  
Prereq: SATISFACTORY PERFORMANCE ON PLACEMENT EXAM, 2 YRS OF HS ALGEBRA, 1 YR OF HS GEOMETRY  
Note: CREDIT FOR EITHER MATH 104 OR MATH 150, BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION. CREDITS EARNED IN MATH 150 CANNOT BE APPLIED TOWARD GRADUATION BY MATH MAJORS.
- 5135005 A MTWRF 9:50-10:50  
MEETS: JUNE 17-AUG 9
- 5135010 B MTWRF 11:00-12:00  
MEETS: MAY 20-JULY 12
- BUS & SOC SCI CALC MATH 151 3 CREDITS  
Prereq: SATISFACTORY PERFORMANCE ON PLACEMENT EXAM, 2 YRS OF HS ALGEBRA, 1 YR OF HS GEOMETRY  
Note: ONLY ONE OF THE FOLLOWING COURSES/SEQUENCES OF COURSES MAY BE APPLIED TOWARD GRADUATION: MATH 151, MATH 160, MATH 165-166, MATH 181-182. CREDITS EARNED IN MATH 151 CANNOT BE APPLIED TOWARD GRADUATION BY MATH MAJORS. 6 CREDITS OF MATH 151, 181, 165 (OR 166) MAY BE APPLIED TOWARD GRADUATION IF NO OTHER CALCULUS HAS BEEN TAKEN.
- 5136005 A MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12
- 5136010 B MTWRF 11:00-12:00  
MEETS: MAY 20-JULY 12
- CALCULUS I MATH 165 4 CREDITS  
Prereq: SATISFACTORY PERFORMANCE ON PLACEMENT EXAM, 2 YEARS OF HIGH SCHOOL ALGEBRA, 1 YEAR OF GEOMETRY, 1 SEMESTER OF TRIGONOMETRY OR ENROLLMENT IN MATH 141 OR MATH 142  
Note: ONLY ONE OF THE FOLLOWING COURSES/SEQUENCES OF COURSES MAY BE APPLIED TOWARD GRADUATION: MATH 151, MATH 160, MATH 165-166, MATH 181-182
- 5138005 A MTWRF 8:40-10:00  
MEETS: MAY 20-JULY 12
- 5138010 B MTWRF 8:40-10:00  
MEETS: JUNE 17-AUG 9

## MATHEMATICS

(CONTINUED)

- CALCULUS II MATH 166 4 CREDITS  
Prereq: GRADE OF C- OR BETTER IN MATH 165 OR HIGH MATH PLACEMENT SCORES  
Note: ONLY ONE OF THE FOLLOWING COURSES/SEQUENCES OF COURSES MAY BE APPLIED TOWARD GRADUATION: MATH 151, MATH 160, MATH 165-166, MATH 181-182. 6 CREDITS OF MATH 151, MATH 181, MATH 165 (OR 166) MAY BE APPLIED TOWARD GRADUATION IF NO OTHER CALCULUS HAS BEEN TAKEN
- 5139005 A MTWRF 11:00-12:20  
MEETS: MAY 20-JULY 12
- 5139015 B MTWRF 11:00-12:20  
MEETS: JUNE 17-AUG 9
- 5139020 C MTWRF 11:00-12:20  
MEETS: MAY 20-JULY 12
- CALCULUS III MATH 265 4 CREDITS  
Prereq: GRADE OF C- OR BETTER IN MATH 166 OR MATH 166H
- 5151005 A MTWRF 9:50-11:10  
MEETS: MAY 20-JULY 12
- 5151015 B MTWRF 9:50-11:10  
MEETS: JUNE 17-AUG 9
- 5151025 C MTWRF 9:50-11:10  
MEETS: MAY 20-JULY 12
- ELEM DIFF EQUATNS MATH 266 3 CREDITS  
Prereq: GRADE OF C- OR BETTER IN MATH 166 OR MATH 166H  
Note: CREDIT FOR EITHER MATH 267 OR THE MATH 266,268 PAIR OF COURSES, BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION
- 5152005 A MTWRF 12:10-1:30  
MEETS: MAY 20-JUNE 28
- 5152010 B MTWRF 12:10-1:30  
MEETS: MAY 20-JUNE 28
- 5152015 C MTWRF 12:10-1:30  
MEETS: JUNE 17-JULY 26
- DIFF EQ & TRANSFMS MATH 267 4 CREDITS  
Prereq: GRADE OF C- OR BETTER IN MATH 166 OR MATH 166H  
Note: CREDIT FOR EITHER MATH 267 OR THE MATH 266,268 PAIR OF COURSES, BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION
- 5153005 A MTWRF 12:10-1:30  
MEETS: MAY 20-JULY 12
- 5153010 B MTWRF 12:10-1:30  
MEETS: MAY 20-JULY 12
- 5153015 C MTWRF 12:10-1:30  
MEETS: JUNE 17-AUG 9
- INDEPENDENT STUDY MATH 290 1- 3 CREDITS  
Note: Department permission required.
- 5156005 ARRANGED  
MEETS: MAY 20-AUG 9
- INDEP STUDY HONORS MATH 290H 1- 3 CREDITS  
Prereq: MEMBERSHIP IN UNIV HONORS PROGRAM  
Note: Department permission required.
- 5157005 ARRANGED  
MEETS: MAY 20-AUG 9
- MATRCES&LINEAR ALGB MATH 307 3 CREDITS  
Prereq: 2 SEMESTERS OF CALCULUS  
Note: CREDIT FOR EITHER MATH 307 OR MATH 317, BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION Available for nonmajor graduate credit
- 5161005 A MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12
- INTR PART DIFF EQUA MATH 385 3 CREDITS  
Prereq: MATH 265 AND ONE OF MATH 266, MATH 267  
Note: Available for nonmajor graduate credit
- 5170005 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12
- ANALYSIS I MATH 414 3 CREDITS  
Prereq: MATH 201; MATH 265; AND MATH 307 OR MATH 317  
Note: Available for nonmajor graduate credit
- 5171005 MTWRF 11:00-12:00  
MEETS: MAY 20-JULY 12
- INDEPENDENT STUDY MATH 490 1- 3 CREDITS  
Prereq: MATH 301 OR MATH 317; 6 CREDITS IN MATH  
Note: NO MORE THAN 9 CREDITS OF MATH 490 MAY BE APPLIED TOWARD GRADUATION
- 5182005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Department permission required.
- INDEP STUDY HONORS MATH 490H 1- 3 CREDITS  
Prereq: MATH 301 OR MATH 317; 6 CREDITS IN MATH, MEMBERSHIP IN UNIV HONORS PROGRAM  
Note: NO MORE THAN 9 CREDITS OF MATH 490 MAY BE APPLIED TOWARD GRADUATION Department permission required.
- 5183005 ARRANGED  
MEETS: MAY 20-AUG 9

## MATHEMATICS

(CONTINUED)

INTRO REAL ANALYSIS MATH 501 3 CREDITS  
Prereq: MATH 265 AND (MATH 307 OR MATH 317)  
7394005 MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12

ED SMNR GEOM&DISCRT MATH 540B 1 CREDIT  
Prereq: ENROLLMENT IN THE MASTER OF SCHOOL  
MATHEMATICS PROGRAM OR PROFESSIONAL STUDIES IN EDUC  
6499010 2 W 11:10-1:20  
MEETS: JUNE 17-AUG 2

ED SEM TCH ANLY&ALG MATH 540C 1 CREDIT  
Prereq: ENROLLMENT IN THE MASTER OF SCHOOL  
MATHEMATICS PROGRAM OR PROFESSIONAL STUDIES IN EDUC  
6506005 W 11:10-1:20  
MEETS: JUNE 17-AUG 2

INTERMED CALCULUS MATH 545 4 CREDITS  
Prereq: 3 SEMESTERS OF CALCULUS & ENROLLMENT  
IN THE MASTER OF SCHOOL MATHEMATICS PROGRAM  
5212005 MTWRF 7:30-9:20  
MEETS: JUNE 17-AUG 2

ALGRTH &CPTR IMLEM MATH 546 3 CREDITS  
Prereq: 3 SEMESTERS IN CALCULUS OR CONCURRENT  
ENROLLMENT MATH 545 AND ENROLLMENT IN THE MASTER OF  
SCHOOL MATH PROGRAM  
5213005 MTWRF 9:40-11:00  
MEETS: JUNE 17-AUG 2

INDEPENDENT STUDY MATH 590 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT MATH 599 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SEMINAR MATH 610 VAR. CREDITS  
5231005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH MATH 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**MECHANICAL ENGINEERING**

ENG GRPHC&INTR DSGN M E 170 3 CREDITS  
Prereq: CREDIT OR ENROLLMENT IN MATH 142,  
SATISFACTORY SCORES ON MATHEMATICS PLACEMENT  
ASSESSMENTS  
8346005 1 MTWRF 12:10-2:00  
MEETS: JULY 1-AUG 9

ENGR THERMODYNAM I M E 231 3 CREDITS  
Prereq: MATH 265, CHEM 167, PHYS 222  
Note: CREDIT FOR EITHER M E 231 OR M E 330, BUT NOT  
BOTH, MAY APPLY TOWARD GRADUATION. COURSE RESTRICTED  
TO ENGINEERING COLLEGE MAJORS ONLY.  
4877005 A MTWRF 12:10-1:30  
MEETS: MAY 20-JUNE 28

COOPERATIVE EDUCATN M E 298 R CREDIT  
Prereq: PERMISSION OF DEPT CHAIR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

MANUFACTURING ENGR M E 324 4 CREDITS  
Prereq: M E 270, E M 324, MAT E 273  
Note: COURSE RESTRICTED TO M E, A E MAJORS ONLY  
Available for nonmajor graduate credit  
6277005 A MTWRF 7:30-8:50  
TR 1:20-3:45  
MEETS: JULY 1-AUG 9

6277010 B MTWRF 7:30-8:50  
TR 9:50-12:15  
MEETS: JULY 1-AUG 9

MACHINE DESIGN M E 325 3 CREDITS  
Prereq: M E 170, E M 324  
Note: COURSE RESTRICTED TO A E, M E MAJORS ONLY  
Available for nonmajor graduate credit  
6287005 A MTWRF 7:30-8:50  
MEETS: MAY 20-JUNE 28

ENGR THERMODYNMS II M E 332 3 CREDITS  
Prereq: M E 231  
Note: COURSE RESTRICTED TO M E MAJORS ONLY  
Available for nonmajor graduate credit  
4878005 1 MTWRF 12:10-1:30  
MEETS: JULY 1-AUG 9

FLUID FLOW M E 335 4 CREDITS  
Prereq: CREDIT OR ENROLLMENT IN M E 332, E M 345,  
MATH 266 OR MATH 267  
Note: Available for nonmajor graduate credit  
5703005 1 MTWRF 11:00-12:20  
TR 2:30-4:55  
MEETS: MAY 20-JUNE 28

5703010 2 MTWRF 11:00-12:20  
MW 2:30-4:55  
MEETS: MAY 20-JUNE 28

## MECHANICAL ENGINEERING

(CONTINUED)

ENGRNRG MEASUREMNTS M E 370 3 CREDITS  
Prereq: E E 442, STAT 305  
Note: COURSE RESTRICTED TO M E MAJORS ONLY  
Available for nonmajor graduate credit  
4881005 1 MTWRF 1:20-2:20  
WF 7:30-10:30  
MEETS: MAY 20-JUNE 28

4881010 2 MTWRF 1:20-2:20  
WF 2:30-5:30  
MEETS: MAY 20-JUNE 28

SUMMER INTERNSHIP M E 396 R CREDIT  
Prereq: PERMISSION OF DEPARTMENT AND ENGINEERING  
CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC M E 398 R CREDIT  
Prereq: M E 298, PERMISSN OF DEPRMTNT AND  
ENGINEERING CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SYST DYNAM &CONTROL M E 421 4 CREDITS  
Prereq: E M 345, MATH 267, E E 442, E E 448  
Note: Available for nonmajor graduate credit  
6310005 1 MTWRF 12:10-1:30  
MW 2:30-4:55  
MEETS: MAY 20-JUNE 28

6310010 2 MTWRF 12:10-1:30  
TR 2:30-4:55  
MEETS: MAY 20-JUNE 28

6310015 3 MTWRF 12:10-1:30  
TR 5:00-7:25PM  
MEETS: MAY 20-JUNE 28

HEAT TRANSFER M E 436 4 CREDITS  
Prereq: M E 335  
Note: Available for nonmajor graduate credit  
5711005 1 MTWRF 9:50-11:10  
MW 2:30-4:55  
MEETS: JULY 1-AUG 9

5711010 2 MTWRF 9:50-11:10  
TR 1:20-3:45  
MEETS: JULY 1-AUG 9

5711015 3 MTWRF 9:50-11:10  
ARRANGED  
MEETS: JULY 1-AUG 9

INDEP STUDY HONORS M E 490H 1- 6 CREDITS  
Prereq: SR CLASSIFCATN, MEMBERSHIP IN HONORS PROG  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY THERMODYN M E 490J 1- 6 CREDITS  
Prereq: SENIOR CLASSIFICATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STU NUCL ENGR M E 490M 1- 6 CREDITS  
Prereq: SENIOR CLASSIFICATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STU MATRLS PROC M E 490Q 1- 6 CREDITS  
Prereq: SENIOR CLASSIFICATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUC M E 498 R CREDIT  
Prereq: M E 298, PERMISSN OF DEPRMTNT AND  
ENGINEERING CAREER SERVICES  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP LIT INVESTIG M E 590Q 1- 8 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT M E 599 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP FLUID MECH M E 690B VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP HEAT TRANSF M E 690C VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TP ADV MACH DSN M E 690G VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP AUTO CONTRL M E 690I VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP MATLS BEHAV M E 690K VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOP MFG PROCESS M E 690L VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV TOPIC TRIBOLOGY M E 690M VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## MECHANICAL ENGINEERING (CONTINUED)

ADV TOP SENSTV MTHD M E 690N VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADV TOP ENGR COMPUT M E 690Q VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADV TOP ENGR MEASUR M E 690P VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADV TOP LIT INVESTG M E 690Q VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ENGINEERG INTERNSHP M E 697 R CREDIT  
Prereq: PERMISSION OF DIRECTOR OF GRADUATE  
EDUCATION, GRAD CLASSIFICATION  
Satisfactory-Fail Only.  
8151005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH M E 699 VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

**METEOROLOGY**

COOPERATIVE EDUCATN MTEOR 298 R CREDIT  
Prereq: PERMISSION OF THE DEPT COOPERATIVE  
EDUCATION COORDINATOR; SOPHOMORE CLASSIFICATION  
4813005 ARRANGED  
MEETS: MAY 20-AUG 9

METEOROL INTERNSHIP MTEOR 321 1- 2 CREDITS  
Prereq: MTEOR 311; JR OR SR STANDING; PERMISSION  
OF COOP PROGRM COORD; ACCEPTANCE BY SPONSORING AGENCY  
Satisfactory-Fail Only.  
5381005 ARRANGED  
MEETS: MAY 20-AUG 9

COOPERATIVE EDUCATN MTEOR 398 R CREDIT  
Prereq: PERMISSION OF THE DEPT COOPERATIVE  
EDUCATION COORDINATOR; JUNIOR CLASSIFICATION  
4823005 ARRANGED  
MEETS: MAY 20-AUG 9

IND STUDY SYNOPTIC MTEOR 490A 1- 3 CREDITS  
Prereq: 6 CREDITS IN MTEOR, INSTRUCTR PERMISSION  
Note: NO MORE THAN 9 CREDITS IN MTEOR 490 MAY BE  
APPLIED TOWARD GRADUATION  
8424005 ARRANGED  
MEETS: MAY 20-AUG 9

INDEP STUDY DYNAMIC MTEOR 490B 1- 3 CREDITS  
Prereq: 6 CREDITS IN MTEOR, INSTRUCTR PERMISSION  
Note: NO MORE THAN 9 CREDITS IN MTEOR 490 MAY BE  
APPLIED TOWARD GRADUATION  
8425005 ARRANGED  
MEETS: MAY 20-AUG 9

IND STUDY PHYSICAL MTEOR 490C 1- 3 CREDITS  
Prereq: 6 CREDITS IN MTEOR, INSTRUCTR PERMISSION  
Note: NO MORE THAN 9 CREDITS IN MTEOR 490 MAY BE  
APPLIED TOWARD GRADUATION  
8426005 ARRANGED  
MEETS: MAY 20-AUG 9

IND STU INSTRUMENTN MTEOR 490D 1- 3 CREDITS  
Prereq: 6 CREDITS IN MTEOR, INSTRUCTR PERMISSION  
Note: NO MORE THAN 9 CREDITS IN MTEOR 490 MAY BE  
APPLIED TOWARD GRADUATION  
1010005 ARRANGED  
MEETS: MAY 20-AUG 9

IND STUDY HYDROLOGY MTEOR 490E 1- 3 CREDITS  
Prereq: 6 CREDITS IN MTEOR, INSTRUCTR PERMISSION  
Note: NO MORE THAN 9 CREDITS IN MTEOR 490 MAY BE  
APPLIED TOWARD GRADUATION  
8668005 ARRANGED  
MEETS: MAY 20-AUG 9

IND STU CLIMATE/WTR MTEOR 490F 1- 3 CREDITS  
Prereq: 6 CREDITS IN MTEOR, INSTRUCTR PERMISSION  
Note: NO MORE THAN 9 CREDITS IN MTEOR 490 MAY BE  
APPLIED TOWARD GRADUATION  
3583005 ARRANGED  
MEETS: MAY 20-AUG 9

COOPERATIVE EDUCATN MTEOR 498 R CREDIT  
Prereq: PERMISSION OF THE DEPT COOPERATIVE  
EDUCATION COORDINATOR; SENIOR CLASSIFICATION  
4824005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP BOUND-LAYER MTEOR 590A 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
8427005 ARRANGED  
MEETS: MAY 20-AUG 9

## METEOROLOGY (CONTINUED)

SPL TOPICS TROPICAL MTEOR 590B 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
8429005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOPCS MESOSCALE MTEOR 590C 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
8430005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP GLOBAL SYST MTEOR 590D 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
8431005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOPC CLIM MODEL MTEOR 590E 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Satisfactory-Fail Only.  
8432005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP NUMERI PRED MTEOR 590F 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
8433005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP SATEL OBSRV MTEOR 590G 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
8434005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP STAT METHDS MTEOR 590H 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
8435005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP FIELD OBSRV MTEOR 590I 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
8437005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP LOW FREQ MD MTEOR 590J 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
1230005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOPC CLOUD PHYS MTEOR 590K 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
3901005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP ATMOS RADIA MTEOR 590L 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
3904005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOPCS HYDROLOGY MTEOR 590M 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
8669005 ARRANGED  
MEETS: MAY 20-AUG 9

SP TOP GEOPH FLU DY MTEOR 590N 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
9186120 TC ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH MTEOR 699 VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

**MICROBIOLOGY**

BIOL MICROORGANISMS MICRO 302 3 CREDITS  
Prereq: BIOL 211, CREDIT OR ENROLLMT IN BIOL 212;  
ONE SEMESTER OF CHEMISTRY  
1426005 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12

MICROBIOLOGY LAB MICRO 302L 1 CREDIT  
Prereq: CREDIT OR ENROLLMENT IN MICRO 302  
Note: CREDIT FOR EITHER MICRO 201L OR MICRO 302L,  
BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION  
3024005 1 MTWR 11:00-1:00  
MEETS: MAY 20-JULY 12  
Note: Materials fee \$145.00

INDEPENDENT STUDY MICRO 490 1- 5 CREDITS  
Prereq: A MINIMUM OF 6 CR HOURS OF 300-LEVEL OR  
ABOVE COURSEWORK IN MICRO, PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 6 CREDITS OF MICRO 490 MAY BE  
USED TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR  
GRADUATION  
Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS



## MICROBIOLOGY

(CONTINUED)

HONORS INDEP STUDY MICRO 490H 1- 5 CREDITS  
Prereq: A MINIMUM OF 6 CR OF 300-LEVEL OR ABOVE  
COURSEWORK IN MICRO, INSTR PERMISSION, MEMBERSHIP IN  
UNIV HONORS PROGRAM  
Note: NO MORE THAN 6 CREDITS OF MICRO 490 MAY BE  
USED TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR  
GRADUATION. RESTRICTED TO HONORS PROGRAM STUDENTS  
ONLY.  
\*\*\*\*\* Instructor permission required 1st week.  
SEE DEPT FOR REFERENCE NUMBERS

INTERNSHIP MICRO 495 1- 2 CREDITS  
Prereq: AT LEAST 6 CREDITS OF 300-LEVEL OR ABOVE  
COURSEWORK IN MICRO, APPROVAL OF ACADEMIC ADVISOR  
Satisfactory-Fail Only.  
9679005 ARRANGED  
MEETS: MAY 20-AUG 9

SPECIAL TOPICS MICRO 590 1- 5 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CURR TOPIC MICROBIO MICRO 690A 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

GRAD RESEARCH ROTAT MICRO 697 VAR. CREDITS  
7161005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH MICRO 699 VAR. CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**MILITARY SCIENCE**

IND STDY: BASIC MILI M S 290 1- 3 CREDITS  
Prereq: PERMISSION OF THE M S DEPT CHAIR  
8153005 ARRANGED PINGEL B  
MEETS: MAY 20-AUG 9

IND STDY: ADV MIL ST M S 490 1 CREDIT  
Prereq: M S 301, M S 302, M S 401, M S 402,  
PERMISSION OF THE MILITARY SCIENCE DEPARTMENT CHAIR  
9598005 ARRANGED SMITH R  
MEETS: MAY 20-AUG 9

**MOLECULAR CELLULAR DEV BIOLOGY**

GRAD RESRCH ROTATN MCDB 697 1- 6 CREDITS  
Satisfactory-Fail Only.  
7278005 ARRANGED  
MEETS: MAY 20-JULY 12

RESEARCH MCDB 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**MUSIC**

INTRO MUSIC LISTENI MUSIC 102 3 CREDITS  
Note: Meets international perspectives reqmt  
5406005 A ARRANGED  
MEETS: MAY 28-JULY 5  
Note: Course delivery is WWW

5406010 B ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Course delivery is WWW

APPLIED MUSIC VOICE MUSIC 118A 1- 2 CREDITS  
Prereq: AUDITION, PERMISSION OF INSTRUCTOR  
Note: Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC PIANO MUSIC 118B 1- 2 CREDITS  
Prereq: AUDITION, PERMISSION OF INSTRUCTOR  
Note: Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPLD MUSIC STRINGS MUSIC 118D 1- 2 CREDITS  
Prereq: AUDITION, PERMISSION OF INSTRUCTOR  
Note: Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPL MUSIC WOODWIND MUSIC 118F 1- 2 CREDITS  
Prereq: AUDITION, PERMISSION OF INSTRUCTOR  
Note: Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC VOICE MUSIC 119A 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## MUSIC

(CONTINUED)

APPLIED MUSIC PIANO MUSIC 119B 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPLD MUSIC STRINGS MUSIC 119D 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPL MUSIC CARILLON MUSIC 119E 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPL MUSIC WOODWIND MUSIC 119F 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC BRASS MUSIC 119G 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC VOICE MUSIC 219A 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC PIANO MUSIC 219B 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPLD MUSIC STRINGS MUSIC 219D 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPL MUSIC CARILLON MUSIC 219E 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPL MUSIC WOODWIND MUSIC 219F 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC BRASS MUSIC 219G 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

APPLD MUSIC PERCUSS MUSIC 219I 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL PROB EDUCATION MUSIC 290A VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR; 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL PROB THEORY MUSIC 290B VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR; 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP PROB COMPOSITION MUSIC 290C VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR; 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL PROB LITERATURE MUSIC 290E VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR; 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL PROB APPL MUSIC MUSIC 290F VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR; 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## MUSIC

(CONTINUED)

SPECIAL PROB HONORS MUSIC 290H VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR; 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR; MEMBERSHIP IN  
UNIVERSITY HONORS PROGRAM  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC PIANO MUSIC 318B 1- 2 CREDITS  
Prereq: AUDITION, PERMISSION OF INSTRUCTOR  
Note: Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPLD MUSIC STRINGS MUSIC 318D 1- 2 CREDITS  
Prereq: AUDITION, PERMISSION OF INSTRUCTOR  
Note: Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPL MUSIC WOODWIND MUSIC 318F 1- 2 CREDITS  
Prereq: AUDITION, PERMISSION OF INSTRUCTOR  
Note: Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC VOICE MUSIC 319A 1- 3 CREDITS  
Prereq: AUDITION, INSTRUCTOR PERMISN, MUSIC MAJOR  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC PIANO MUSIC 319B 1- 3 CREDITS  
Prereq: AUDITION, INSTRUCTOR PERMISN, MUSIC MAJOR  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPLD MUSIC STRINGS MUSIC 319D 1- 3 CREDITS  
Prereq: AUDITION, INSTRUCTOR PERMISN, MUSIC MAJOR  
Note: Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPL MUSIC CARILLON MUSIC 319E 1- 3 CREDITS  
Prereq: AUDITION, INSTRUCTOR PERMISN, MUSIC MAJOR  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPL MUSIC WOODWIND MUSIC 319F 1- 3 CREDITS  
Prereq: AUDITION, INSTRUCTOR PERMISN, MUSIC MAJOR  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC BRASS MUSIC 319G 1- 3 CREDITS  
Prereq: AUDITION, INSTRUCTOR PERMISN, MUSIC MAJOR  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPLD MUSIC PERCUSS MUSIC 319I 1- 3 CREDITS  
Prereq: AUDITION, INSTRUCTOR PERMISN, MUSIC MAJOR  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADV ENSEMBLE PIANO MUSIC 321B 1 CREDIT  
Prereq: ADVANCED PROFICIENCY AND PERFORMING  
ABILITY, PERMISSION OF INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADV ENSEMBL STRINGS MUSIC 321D 1 CREDIT  
Prereq: ADVANCED PROFICIENCY AND PERFORMING  
ABILITY, PERMISSION OF INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADV ENSEMB WOODWINDS MUSIC 321F 1 CREDIT  
Prereq: ADVANCED PROFICIENCY AND PERFORMING  
ABILITY, PERMISSION OF INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADV ENSEMBLE MIXED MUSIC 321J 1 CREDIT  
Prereq: ADVANCED PROFICIENCY AND PERFORMING  
ABILITY, PERMISSION OF INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

LIT & PEDAGOGY VOICE MUSIC 415A 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

LIT & PEDAGOGY PIANO MUSIC 415B 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: COURSE ONLY OFFERED FOR 1-3 CREDITS SUMMER 2013  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

LIT & PEDAG STRINGS MUSIC 415D 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## MUSIC

(CONTINUED)

LIT & PEDAG WOODWIND MUSIC 415F 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

LIT & PEDAG JAZZ PERF MUSIC 415J 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC VOICE MUSIC 419A 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC PIANO MUSIC 419B 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPLD MUSIC STRINGS MUSIC 419D 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPL MUSIC CARILLON MUSIC 419E 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPL MUSIC WOODWIND MUSIC 419F 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

APPLIED MUSIC BRASS MUSIC 419G 1- 3 CREDITS  
Prereq: AUDITION, INSTR PERMSN, MUSIC MAJORS ONLY  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Applied Music fee \$150.00-\$190.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEP STDY MUSIC ED MUSIC 490A VAR. CREDITS  
Prereq: INSTRUCTOR PERMISSION, 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY THEORY MUSIC 490B VAR. CREDITS  
Prereq: INSTRUCTOR PERMISSION, 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STU COMPOSITION MUSIC 490C VAR. CREDITS  
Prereq: INSTRUCTOR PERMISSION, 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HISTORY MUSIC 490D VAR. CREDITS  
Prereq: INSTRUCTOR PERMISSION, 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STDY LITERATURE MUSIC 490E VAR. CREDITS  
Prereq: INSTRUCTOR PERMISSION, 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STDY APPL MUSIC MUSIC 490F VAR. CREDITS  
Prereq: INSTRUCTOR PERMISSION, 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS MUSIC 490H VAR. CREDITS  
Prereq: INSTRUCTOR PERMISSION, 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR, MEMBERSHIP IN  
UNIVERSITY HONORS PROGRAM  
Note: COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY  
Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STDY ELECTRNC M MUSIC 490I VAR. CREDITS  
Prereq: INSTRUCTOR PERMISSION, 12 CREDITS IN  
MUSIC, APPROVAL OF DEPARTMENT CHAIR  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS EDUC MUSIC 590A VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, APPROVAL OF  
DEPARTMENT HEAD  
Note: Instructor permission required 1st week.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## MUSIC

(CONTINUED)

SPECL TOPICS THEORY MUSIC 590B VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, APPROVAL OF DEPARTMENT HEAD  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOPCS COMPOSIT MUSIC 590C VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, APPROVAL OF DEPARTMENT HEAD  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS LIT MUSIC 590E VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, APPROVAL OF DEPARTMENT HEAD  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC APPL MUSIC MUSIC 590F VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, APPROVAL OF DEPARTMENT HEAD  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP ELECTRNC MU MUSIC 590I VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, APPROVAL OF DEPARTMENT HEAD  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**NATURAL RESOURCE ECOLOGY AND MGMT**

INTERNSHIP NREM 303 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR, SOPH STANDING  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

UNDERGRAD INTERNSHP NREM 303I 1- 5 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR AND SOPHOMORE STANDING  
Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
4355005 ARRANGED  
Note: Tuition Category: Iowa Lakeside Lab

IND STDY ANIMAL ECO NREM 490A 1- 4 CREDITS  
Prereq: JR OR SR CLASSIFICATN, INSTRUCTOR PERMISN  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STDY FORESTRY NREM 490B 1- 4 CREDITS  
Prereq: JR OR SR CLASSIFICATN, INSTRUCTOR PERMISN  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS NREM 490H 1- 4 CREDITS  
Prereq: JR OR SR CLASSIFICATN, INSTRUCTOR PERMISN  
MEMBERSHIP IN UNIVERSITY HONORS PROGRAM  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

UG INDEP STDY IA LL NREM 490I 1- 4 CREDITS  
Prereq: JR OR SR CLASSIFICATION AND PERMISSION OF INSTRUCTOR  
Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
8987005 1 ARRANGED  
MEETS: MAY 20-JUNE 14  
8987010 2 ARRANGED  
MEETS: JUNE 17-JULY 12  
Note: Tuition Category: Iowa Lakeside Lab

AQUATIC ECOLOGY NREM 508I 4 CREDITS  
Prereq: COURSES IN ECOLOGY, CHEMISTRY, & PHYSICS  
Note: Permission of Lakeside Lab Office required  
<http://www.continuetolearn.uiowa.edu/lakesidelab>  
3861005 MTWRF 8:00-5:00  
MEETS: MAY 20-JUNE 14  
Note: Tuition Category: Iowa Lakeside Lab

INTRO DNA TECHNIQS NREM 542A 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
3744005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JUNE 17-JULY 2

INTR PROTEIN TECHNQ NREM 542B 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
3806005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JULY 15-30

SPL TOPCS ANIML ECO NREM 590A 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## NATURAL RESOURCE ECOLOGY AND MGMT (CONTINUED)

SPL TOPICS FORESTRY NREM 590B 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT NREM 599 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

TEACHING PRACTICUM NREM 698 1 CREDIT  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH NREM 699 1-12 CREDITS  
Note: COURSE ONLY OFFERED FOR 1-9 CREDITS SUMMER 2013  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**NEUROSCIENCE**

RESEARCH NEURO 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**NUCLEAR ENGINEERING**

NUCLR RAD THRY&ENGR NUC E 401 3 CREDITS  
Prereq: PHYS 222, MATH 266 OR MATH 267  
Note: Available for nonmajor graduate credit  
7741005 MTWRF 8:40-10:00  
MEETS: MAY 20-JUNE 28

INDEPENDENT STUDY NUC E 490 1- 3 CREDITS  
Prereq: JUNIOR CLASSIFICATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**NUTRITIONAL SCIENCES**

INTRO DNA TECHNIQS NUTRS 542A 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
8628005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JUNE 17-JULY 2

INTR PROTEIN TECHNQ NUTRS 542B 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
8644005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JULY 15-30

RESRCH NUTRITNL SCI NUTRS 699 VAR. CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**ORGANIZATION FOR TROPICAL STUDIES**

ECO TROPICAL BIOLGY OTS 510 8 CREDITS  
7535005 ARRANGED

TOPICS TROPICL BIOL OTS 515 1- 8 CREDITS  
7544005 ARRANGED

**PERFORMING ARTS**

PERFORM ARTS INTERN PERF 310 R CREDIT  
Satisfactory-Fail Only.  
3677005 ARRANGED  
MEETS: MAY 20-AUG 9

PERFRM ARTS SEMINAR PERF 401 2 CREDITS  
Note: Available for nonmajor graduate credit  
3706005 ARRANGED  
MEETS: MAY 20-JULY 12

**PHILOSOPHY**

INTRO TO PHILOSOPHY PHIL 201 3 CREDITS  
5824005 A MTWRF 9:50-11:50  
MEETS: MAY 20-JUNE 14

MORAL THEOR&PRCTICE PHIL 230 3 CREDITS  
5827005 A MTWRF 9:50-11:50  
MEETS: MAY 20-JUNE 14

PHILOSOPHY OF LAW PHIL 332 3 CREDITS  
Prereq: PHIL 201 OR PHIL 230  
Note: Available for nonmajor graduate credit  
Instructor permission required 1st week.  
5836005 A MTWRF 8:40-10:40  
MEETS: MAY 20-JUNE 14

## PHILOSOPHY

(CONTINUED)

INDEPENDENT STUDY PHIL 490 1- 4 CREDITS  
Prereq: 6 CREDITS IN PHIL, PERMISSION OF INSTRUCTOR; APPROVAL OF CHAIR  
Note: NO MORE THAN 9 CREDITS OF PHIL 490 MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS PHIL 490H 1- 4 CREDITS  
Prereq: 6 CREDITS IN PHIL, PERMISSION OF INSTR, APPROVAL OF CHAIR, MEMBERSHIP IN UNIV HONORS PROGRAM  
Note: NO MORE THAN 9 CREDITS OF PHIL 490 MAY BE APPLIED TOWARD GRADUATION. COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

GRADUATNG SR SURVEY PHIL 492 R CREDIT  
Note: COURSE RESTRICTED TO PHIL SENIORS GRADUATING '13 Satisfactory-Fail Only.  
3891005 ARRANGED  
MEETS: MAY 20-AUG 9

SPCL TOPC HISTORY P PHIL 590A 2- 4 CREDITS  
Prereq: INSTRUCTOR PERMISSION, 9 CR IN PHIL  
5850005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP EPIS&METAPH PHIL 590B 2- 4 CREDITS  
Prereq: INSTRUCTOR PERMISSION, 9 CR IN PHIL  
5851005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP VALUE THRY PHIL 590C 2- 4 CREDITS  
Prereq: INSTRUCTOR PERMISSION, 9 CR IN PHIL  
Note: Instructor permission required.  
5852005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP LOGIC&P SCI PHIL 590D 2- 4 CREDITS  
Prereq: INSTRUCTOR PERMISSION, 9 CR IN PHIL  
5853005 ARRANGED  
MEETS: MAY 20-AUG 9

## PHYSICS

(CONTINUED)

INTR CLASSCL PHYS I PHYS 221 5 CREDITS  
5861015 3 MTWRF 9:50-10:50  
MWF 7:30-8:30  
R 12:10-2:10  
MEETS: JUNE 17-AUG 9  
Note: Materials and professional support fee \$90.00

INTR CLASS PHYS II PHYS 222 5 CREDITS  
Prereq: PHYS 221, MATH 166  
Note: IF A STUDENT ENROLLED IN 222 FOR SPRING 2013 REGISTERS FOR 222 FOR SUMMER 2013 BEFORE SPRING 2013 ENDS, THE SUMMER TERM ENROLLMENT WILL BE DROPPED FROM THE STUDENT'S SCHEDULE. COURSE OFFERED FOR 5 CREDITS SUMMER 2013.  
5863005 1 MTWRF 11:00-12:00  
WF 8:40-9:40  
TR 12:10-2:20  
MEETS: JUNE 17-AUG 9  
Note: Materials and professional support fee \$90.00

5863010 2 MTWRF 11:00-12:00  
WF 9:50-10:50  
TR 8:40-10:50  
MEETS: JUNE 17-AUG 9  
Note: Materials and professional support fee \$90.00

INDEPENDENT STUDY PHYS 290 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTMED LAB FOR TCHR PHYS 311T 3 CREDITS  
Prereq: PHYS 112 OR PHYS 222  
Note: COURSE MEETS AT AMES HIGH SCHOOL. MUST PROVIDE OWN TRANSPORTATION TO CLASS. INTENDED PRIMARILY FOR TEACHERS.  
5873005 MTWRF 9:00-5:00  
MEETS: JUNE 17-JULY 5

SEM SEC SCHOOL PHYS PHYS 399 1- 2 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
5886005 1 ARRANGED  
MEETS: JUNE 17-AUG 9

UNDERGRAD RESEARCH PHYS 450 1- 6 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

UNDERGRAD RESEARCH PHYS 450L 1- 6 CREDITS  
Prereq: PHYS 311, PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY PHYS 490 1- 4 CREDITS  
Prereq: 6 CREDITS IN PHYS, PERMISSON OF INSTRUCTOR  
Note: NO MORE THAN 9 CREDITS OF PHYS 490 MAY BE APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN PHYS 498 R CREDIT  
Prereq: PERMISSION OF THE DEPARTMENT COOPERATIVE EDUCATION COORDINATOR; SENIOR CLASSIFICATION  
4746005 ARRANGED  
MEETS: MAY 20-AUG 9

CREATIVE COMPONENT PHYS 599 VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH PHYS 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## PHYSICS

GENERAL PHYSICS PHYS 111 4- 5 CREDITS  
Prereq: 1 AND 1/2 YRS OF HS ALGEBRA, 1 YR OF GEOMETRY, 1 SEMESTER OF TRIGONOMETRY  
Note: IF A STUDENT ENROLLED IN 111 FOR SPRING 2013 REGISTERS FOR 111 FOR SUMMER 2013 BEFORE SPRING 2013 ENDS, THE SUMMER TERM ENROLLMENT WILL BE DROPPED FROM THE STUDENT'S SCHEDULE. OFFERED FOR 5 CREDITS SUMMER 2013.  
5857005 1 MTWR 12:10-1:10  
TWRF 9:50-10:50  
MW 7:30-9:40  
MEETS: JUNE 17-AUG 9  
Note: Materials and professional support fee \$90.00

5857010 2 MTWR 12:10-1:10  
TWRF 11:00-12:00  
MW 1:20-3:30  
MEETS: JUNE 17-AUG 9  
Note: Materials and professional support fee \$90.00

5857015 3 MTWR 12:10-1:10  
TWRF 11:00-12:00  
MW 3:40-5:50  
MEETS: JUNE 17-AUG 9  
Note: Materials and professional support fee \$90.00

GENERAL PHYSICS PHYS 112 4- 5 CREDITS  
Prereq: PHYS 111  
Note: IF A STUDENT ENROLLED IN 112 FOR SPRING 2013 REGISTERS FOR 112 FOR SUMMER 2013 BEFORE SPRING 2013 ENDS, THE SUMMER TERM ENROLLMENT WILL BE DROPPED FROM THE STUDENT'S SCHEDULE. OFFERED FOR 5 CREDITS SUMMER 2013.  
5858005 1 MTWRF 1:20-2:20  
TR 9:50-10:50  
MW 9:50-12:00  
MEETS: JUNE 17-AUG 9  
Note: Materials and professional support fee \$90.00

5858010 2 MTWRF 1:20-2:20  
TR 9:50-10:50  
MW 2:30-4:40  
MEETS: JUNE 17-AUG 9  
Note: Materials and professional support fee \$90.00

INTR CLASSCL PHYS I PHYS 221 5 CREDITS  
Prereq: CREDIT OR ENROLLMENT IN MATH 166  
Note: IF A STUDENT ENROLLED IN 221 FOR SPRING 2013 REGISTERS FOR 221 FOR SUMMER 2013 BEFORE SPRING 2013 ENDS, THE SUMMER TERM ENROLLMENT WILL BE DROPPED FROM THE STUDENT'S SCHEDULE. COURSE OFFERED FOR 5 CREDITS SUMMER 2013.  
5861005 1 MTWRF 9:50-10:50  
MWF 8:40-9:40  
R 7:30-9:40  
MEETS: JUNE 17-AUG 9  
Note: Materials and professional support fee \$90.00

5861010 2 MTWRF 9:50-10:50  
MWF 8:40-9:40  
R 2:30-4:40  
MEETS: JUNE 17-AUG 9  
Note: Materials and professional support fee \$90.00

## PLANT BIOLOGY

RESEARCH PLBIO 699 VAR. CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## PLANT PATHOLOGY

INDEP STDY PLT PATH PL P 490A 1- 3 CREDITS  
Prereq: JR OR SR CLASSIFICATION, 7 CREDITS IN BIOLOGICAL SCIENCES, PERMISSION OF INSTRUCTOR  
Note: NO MORE THAN 6 CREDITS OF PL P 490 MAY BE APPLIED TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

HONORS INDEP STUDY PL P 490H 1- 3 CREDITS  
Prereq: JR OR SR CLASSIFICATION, 7 CR IN BIOL SCI, INSTR PERMISSION, MEMBERSHIP IN HONORS PROGRAM  
Note: NO MORE THAN 6 CREDITS OF PL P 490 MAY BE APPLIED TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR GRADUATION. COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY.  
3155005 ARRANGED  
MEETS: MAY 20-AUG 9

## PLANT PATHOLOGY (CONTINUED)

PLANT NEMATOLOGY PL P 574 3 CREDITS  
Prereq: PL P 408 OR PL P 416  
5951005 ARRANGED  
MEETS: MAY 20-JULY 12

SPECIAL TOPICS PL P 590 1- 3 CREDITS  
Prereq: 10 CR IN BIOL SCIENCES, INSTR PERMISSION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

THESIS&DIS RESEARCH PL P 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**POLITICAL SCIENCE**

STATE & LOCAL GOVT POL S 310 3 CREDITS  
Prereq: 3 CR IN POL S  
5968005 MTWRF 1:20-3:20  
MEETS: JUNE 17-JULY 12

SPL TOP INTL RELATN POL S 315 2 CREDITS  
Prereq: SOPHOMORE CLASSIFICATION  
Note: USE OF POL S 312,313,314,315 IN POL S MAJOR  
AND MINOR DEGREE REQUIREMENTS IS LIMITED. SEE  
UNDERGRAD STUDIES SECTION OF CATALOG FOR DETAILS.  
Meets international perspectives reqmt  
8813005 A MTWRF 9:50-11:50  
MEETS: MAY 20-JUNE 3  
Note: SECTION A TOPIC: WAR & FILM - EARLY YEARS  
8813010 B MTWRF 9:50-11:50  
MEETS: JUNE 4-17  
Note: SECTION B TOPIC: WAR & FILM - LATE YEARS

ENVIRN POLIT&POLICI POL S 383 3 CREDITS  
Prereq: SOPHOMORE CLASSIFICATION  
6010010 A MTWRF 8:40-10:00  
MEETS: MAY 20-JUNE 28

ADV WRITING POL SCI POL S 395 R CREDIT  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INT'L STUDY & TRAVEL POL S 397X VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Meets international perspectives reqmt  
9220805 BE ARRANGED SHAW K  
MEETS: JUNE 2-21  
Note: SEC BE TAUGHT IN BRUSSELS, BELGIUM. TOPIC:  
EUROPE AT A CROSSROADS. STUDY ABROAD SUMMER  
2013L. OFFERED FOR 3 CREDITS.  
Study Abroad Administrative Fee Applies  
9220800 CA ARRANGED MCCORMICK J  
MEETS: MAY 21-JUNE 7  
Note: SEC CA TAUGHT IN CANADA. CANADIAN POLITICS &  
FOREIGN POLICY. STUDY ABROAD SUMMER 2013. OFFERED FOR  
3 CREDIT.  
Study Abroad Administrative Fee Applies

IND STUDY AMER GOVT POL S 490A VAR. CREDITS  
Prereq: 6 CREDITS IN POLITICAL SCIENCE  
Note: NO MORE THAN 9 CREDITS OF POL S 490 MAY BE  
APPLIED TOWARD GRADUATION. USE OF POL S 490 IN POL S  
MAJOR AND MINOR DEGREE REQUIREMENTS IS LIMITED. SEE  
UNDERGRADUATE STUDY SECTION OF CATALOG FOR DETAILS.  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY THRY&METHD POL S 490B VAR. CREDITS  
Prereq: 6 CREDITS IN POLITICAL SCIENCE  
Note: NO MORE THAN 9 CREDITS OF POL S 490 MAY BE  
APPLIED TOWARD GRADUATION. USE OF POL S 490 IN POL S  
MAJOR AND MINOR DEGREE REQUIREMENTS IS LIMITED. SEE  
UNDERGRADUATE STUDY SECTION OF CATALOG FOR DETAILS.  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY COMPAR POL POL S 490C VAR. CREDITS  
Prereq: 6 CREDITS IN POLITICAL SCIENCE  
Note: NO MORE THAN 9 CREDITS OF POL S 490 MAY BE  
APPLIED TOWARD GRADUATION. USE OF POL S 490 IN POL S  
MAJOR AND MINOR DEGREE REQUIREMENTS IS LIMITED. SEE  
UNDERGRADUATE STUDY SECTION OF CATALOG FOR DETAILS.  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY INT'L RELA POL S 490D VAR. CREDITS  
Prereq: 6 CREDITS IN POLITICAL SCIENCE  
Note: NO MORE THAN 9 CREDITS OF POL S 490 MAY BE  
APPLIED TOWARD GRADUATION. USE OF POL S 490 IN POL S  
MAJOR AND MINOR DEGREE REQUIREMENTS IS LIMITED. SEE  
UNDERGRADUATE STUDY SECTION OF CATALOG FOR DETAILS.  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY EXT CREDIT POL S 490E 1- 2 CREDITS  
Prereq: 6 CREDITS IN POLITICAL SCIENCE  
Note: NO MORE THAN 9 CREDITS OF POL S 490 MAY BE  
APPLIED TOWARD GRADUATION. USE OF POL S 490 IN POL S  
MAJOR AND MINOR DEGREE REQUIREMENTS IS LIMITED. SEE  
UNDERGRADUATE STUDY SECTION OF CATALOG FOR DETAILS.  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## POLITICAL SCIENCE (CONTINUED)

IND STUDY CATT CNTR POL S 490G VAR. CREDITS  
Prereq: 6 CREDITS IN POLITICAL SCIENCE  
Note: NO MORE THAN 9 CREDITS OF POL S 490 MAY BE  
APPLIED TOWARD GRADUATION. USE OF POL S 490 IN POL S  
MAJOR AND MINOR DEGREE REQUIREMENTS IS LIMITED. SEE  
UNDERGRADUATE STUDY SECTION OF CATALOG FOR DETAILS.  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS POL S 490H VAR. CREDITS  
Prereq: 6 CR IN POL S, MEMBERSHIP IN HONORS PROG  
Note: NO MORE THAN 9 CREDITS OF POL S 490 MAY BE  
APPLIED TOWARD GRADUATION. USE OF POL S 490 IN POL S  
MAJOR AND MINOR DEGREE REQUIREMENTS IS LIMITED. SEE  
UNDERGRADUATE STUDY SECTION OF CATALOG FOR DETAILS.  
COURSE RESTRICTED TO HONORS PROGRAM STUDENTS ONLY.  
Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SENIOR THESIS POL S 491 3 CREDITS  
Prereq: 21 CREDITS OF POL S, SENIOR STATUS AND  
PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

TEACHING INTERNSHIP POL S 496 3 CREDITS  
Prereq: 12 CREDITS IN POL S, INSTRUCTOR PERMISSN  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH INTERNSHIP POL S 497 3 CREDITS  
Prereq: 12 CREDITS IN POL S, INSTRUCTOR PERMISSN  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

POL SCI INTERNSHIP POL S 499 VAR. CREDITS  
Prereq: 6 CREDITS IN POL S; JUNIOR OR SENIOR  
CLASSIFICATION; PERMISSION OF INTERNSHIP COORDINATOR  
Note: USE OF POL S 499 IN POL S MAJOR AND MINOR DEGREE  
REQUIREMENTS IS LIMITED. SEE UNDERGRADUATE STUDY  
SECTION OF CATALOG FOR DETAILS.  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP US P INSTIT POL S 590A 2- 5 CREDITS  
Prereq: 15 CR IN POL S, WRITTEN INSTRUCTR PERMISSN  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC PUBLIC LAW POL S 590B 2- 5 CREDITS  
Prereq: 15 CR IN POL S, WRITTEN INSTRUCTR PERMISSN  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SP TOP POLIT THEORY POL S 590C 2- 5 CREDITS  
Prereq: 15 CR IN POL S, WRITTEN INSTRUCTR PERMISSN  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP COMPAR GOVT POL S 590D 2- 5 CREDITS  
Prereq: 15 CR IN POL S, WRITTEN INSTRUCTR PERMISSN  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP INT'L RELAT POL S 590E 2- 5 CREDITS  
Prereq: 15 CR IN POL S, WRITTEN INSTRUCTR PERMISSN  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP POLICY PROC POL S 590F 2- 5 CREDITS  
Prereq: 15 CR IN POL S, WRITTEN INSTRUCTR PERMISSN  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP PUB POL&ADM POL S 590G 2- 5 CREDITS  
Prereq: 15 CR IN POL S, WRITTEN INSTRUCTR PERMISSN  
Note: PERMISSION OF INSTRUCTOR REQUIRED TO ADD FIRST  
WEEK. PROCESS APPROVED ADD SLIP IN 10 ENRL SC.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP INTERNSHIP POL S 590I 2- 5 CREDITS  
Prereq: 15 CR IN POL S, WRITTEN INSTRUCTR PERMISSN  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERNSHIP POL S 598 3- 6 CREDITS  
Prereq: 15 CREDITS IN POL S, INSTRUCTR PERMISSION  
4540005 ARRANGED  
MEETS: MAY 20-AUG 9

CREATIVE COMPONENT POL S 599 VAR. CREDITS  
Note: Instructor permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SEM PUB ADMIN&POLCY POL S 610G 3 CREDITS  
Prereq: 15 CREDITS IN POLITICAL SCIENCE  
Note: Instructor permission required 1st week.  
6059005 1 ARRANGED  
MEETS: DATES TO BE ANN.

## POLITICAL SCIENCE

(CONTINUED)

RESEARCH POL S 699 VAR. CREDITS  
 Note: Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**PSYCHOLOGY**

INTRO TO PSYCHOLOGY PSYCH 101 3 CREDITS  
 6069005 A MTWRF 8:40-9:40  
 MEETS: MAY 20-JULY 12  
 6069010 B MTWRF 8:40-9:40  
 MEETS: JUNE 17-AUG 9

ACAD LEARNG SKILLS PSYCH 131 1 CREDIT  
 Satisfactory-Fail Only.  
 6071005 A TR 3:00-4:00, ARRANGED  
 MEETS: JUNE 17-AUG 9  
 Note: SECTION A FOR APEX PROGRAM STUDENTS ONLY  
 Section info: <http://www.dso.iastate.edu/asc/psych131/>

INTRO RESRCH EXPRNC PSYCH 291 1- 4 CREDITS  
 Prereq: PSYCH 101, SOPHOMORE CLASSIFICATION,  
 INSTRUCTOR PERMISSION  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RES DSGN & METHODODOL PSYCH 301 3 CREDITS  
 Prereq: STAT 101; 1 COURSE IN PSYCHOLOGY  
 Note: COURSE RESTRICTED TO PSYCH MAJORS. MINORS ARE  
 ELIGIBLE TO ADD THIS COURSE, BUT MUST GET AN ADD  
 SLIP SIGNED IN W022 LAGOMARCINO HALL.  
 6076005 A MTWRF 12:10-2:10 COOPER E  
 MEETS: MAY 20-JUNE 14

RESRCH METHODS PSYC PSYCH 302 3 CREDITS  
 Prereq: PSYCH 301  
 Note: COURSE RESTRICTED TO PSYCH MAJORS ONLY  
 1173005 A MTWRF 12:10-1:30  
 MEETS: JUNE 17-AUG 9

BRAIN & BEHAVIOR PSYCH 310 3 CREDITS  
 Prereq: PSYCH 101  
 1515005 MTWRF 9:50-10:50  
 MEETS: MAY 20-JULY 12

SENSATION & PERCEPTN PSYCH 312 3 CREDITS  
 Prereq: PSYCH 101  
 6079005 MTWRF 9:50-10:50  
 MEETS: JUNE 17-AUG 9

MOTIVATION PSYCH 314 3 CREDITS  
 Prereq: PSYCH 101  
 6081005 MTWRF 12:10-1:10  
 MEETS: MAY 20-JULY 12

DRUGS & BEHAVIOR PSYCH 315 3 CREDITS  
 Prereq: PSYCH 101  
 6082005 MTWRF 11:00-12:00  
 MEETS: MAY 20-JULY 12

PSYCHOLOGY OF WOMEN PSYCH 346 3 CREDITS  
 Prereq: 2 COURSES IN PSYCHOLOGY INCLUDING PSYCH  
 101  
 Note: Meets U.S. diversity reqmt  
 6085005 MTWRF 12:10-1:10  
 MEETS: MAY 20-JULY 12

PSYCH MEASUREMENT I PSYCH 440 3 CREDITS  
 Prereq: PSYCH 301 AND 9 CREDITS IN PSYCHOLOGY,  
 STAT 101  
 Note: COURSE RESTRICTED TO PSYCH MAJORS ONLY  
 Available for nonmajor graduate credit  
 6099005 A MTWRF 8:40-10:00  
 MEETS: MAY 20-JULY 12

ABNORMAL PSYCHOLOGY PSYCH 460 3 CREDITS  
 Prereq: 3 COURSES IN PSYCHOLOGY INCLUDING PSYCH  
 101  
 Note: Available for nonmajor graduate credit  
 6102005 MTWRF 11:00-12:00  
 MEETS: JUNE 17-AUG 9

INDEPENDENT STUDY PSYCH 490 1- 3 CREDITS  
 Prereq: JR CLASSIF, 6 CR IN PSYCH, INSTR PERMISSN  
 Note: NO MORE THAN 9 CREDITS OF PSYCH 490 MAY BE  
 APPLIED TOWARD A DEGREE IN PSYCHOLOGY. COURSE  
 RESTRICTED TO JUNIORS AND SENIORS ONLY.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS PSYCH 490H 1- 3 CREDITS  
 Prereq: JR CLASSIFCATN, 6 CR IN PSYCH, INSTRUCTOR  
 PERMISSION, MEMBERSHIP IN UNIV HONORS PROGRAM  
 Note: NO MORE THAN 9 CREDITS OF PSYCH 490 MAY BE  
 APPLIED TOWARD A DEGREE IN PSYCHOLOGY. COURSE  
 RESTRICTED TO HONORS PROGRAM JUNIORS AND SENIORS ONLY  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## PSYCHOLOGY

(CONTINUED)

RESEARCH PRACTICUM PSYCH 491 VAR. CREDITS  
 Prereq: JR CLASSIFICATION, INSTR PERMISSION,  
 CREDIT OR ENROLLMENT IN PSYCH 301  
 Note: NO MORE THAN 9 CREDITS OF PSYCH 491 MAY BE  
 APPLIED TOWARD A DEGREE IN PSYCHOLOGY. RESTRICTED  
 TO JUNIORS AND SENIORS ONLY.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FIELDWORK PRACTICUM PSYCH 492 VAR. CREDITS  
 Prereq: JR CLASSIFICATION, 12 CR IN PSYCH,  
 PERMISSION OF INSTRUCTOR  
 Note: NO MORE THAN 9 CREDITS OF PSYCH 492 MAY BE  
 APPLIED TOWARD A DEGREE IN PSYCHOLOGY. RESTRICTED  
 TO JUNIORS AND SENIORS ONLY.  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOP COUNSELING PSYCH 590A VAR. CREDITS  
 Prereq: 12 CREDITS IN PSYCH, PERMISSION OF INSTR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPIC COGNITIVE PSYCH 590Q VAR. CREDITS  
 Prereq: 12 CREDITS IN PSYCH, PERMISSION OF INSTR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECL TOPICS SOCIAL PSYCH 590R VAR. CREDITS  
 Prereq: 12 CREDITS IN PSYCH, PERMISSION OF INSTR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERNSHIP IN PSYCH PSYCH 597 R CREDIT  
 Prereq: M.S. DEGREE CANDIDACY; PERMISSION OF  
 INSTRUCTOR  
 7659005 ARRANGED  
 MEETS: MAY 20-AUG 9

CREATIVE COMPONENT PSYCH 599 VAR. CREDITS  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

EXT PRCTCM ADV CNSL PSYCH 691D VAR. CREDITS  
 Prereq: 691A, 691B, PERMISSION OF INSTRUCTOR  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PRACTICUM TEACHING PSYCH 691T VAR. CREDITS  
 Prereq: PSYCH 633, PERMISSION OF INSTRUCTOR  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTERN COUNSELING PSYCH 697 R CREDIT  
 Prereq: PH.D. CANDIDACY IN THE COUNSELING PSYCH  
 PROG, APPROVED DISSERTATION PROPOSAL, INSTR PERMISSN  
 6182005 ARRANGED  
 MEETS: MAY 20-AUG 9

RESEARCH PSYCH 699 VAR. CREDITS  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**RELIGIOUS STUDIES**

INTRO WRLD RELIGION RELIG 205 3 CREDITS  
 Note: Meets international perspectives reqmt  
 6109005 A MTWRF 12:10-2:10  
 MEETS: MAY 20-JUNE 14

RELIGION IN AMERICA RELIG 210 3 CREDITS  
 Note: Meets U.S. diversity reqmt  
 6188005 A MTWRF 11:00-1:00  
 MEETS: MAY 20-JUNE 14  
 6188010 B MTWRF 9:50-11:50  
 MEETS: JUNE 17-JULY 12

INDEPENDENT STUDY RELIG 490 1- 3 CREDITS  
 Prereq: 6 CR IN RELIGIOUS STUDIES; PERMISSION  
 OF INSTRUCTOR; APPROVAL OF DEPT CHAIR  
 Note: NO MORE THAN 9 CREDITS OF RELIG 490 MAY BE  
 APPLIED TOWARD GRADUATION  
 Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS RELIG 490H 1- 3 CREDITS  
 Prereq: 6 CR IN RELIG, PERMISSION OF INSTRUCTOR,  
 APPROVAL OF PROFESSOR IN CHARGE OF PROGRAM,  
 MEMBERSHIP IN UNIVERSITY HONORS PROGRAM  
 Note: NO MORE THAN 9 CREDITS OF RELIG 490 MAY BE  
 APPLIED TOWARD GRADUATION. RESTRICTED TO HONORS  
 PROGRAM STUDENTS ONLY.  
 Instructor permission required 1st week.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PEACE&JUSTICE INTERN RELIG 499 1- 6 CREDITS  
 Prereq: 3 CREDITS IN RELIGIOUS STUDIES,  
 PERMISSION OF FACULTY INTERNSHIP COORDINATOR  
 Satisfactory-Fail Only.  
 7740005 ARRANGED  
 MEETS: MAY 20-AUG 9  
 Note: Department permission required.

## RELIGIOUS STUDIES

(CONTINUED)

SPL TOP RELIG STUDI RELIG 590 1- 3 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR, 9 CR IN RELIG  
 3617005 1 ARRANGED  
 MEETS: MAY 20-AUG 9

**RESEARCH & EVALUATION**

INTRO QLTV RES MTHD RESEV 580 3 CREDITS  
 4059005 R 4:00-8:00PM  
 F 12:00-6:00PM  
 MEETS: MAY 23-JULY 19  
 Note: MEETINGS ON MAY 23,24 JUNE 6,7,20,21 JULY 18,19

SPECIAL TOPICS RESEV 590 1- 3 CREDITS  
 Prereq: GRADUATE STANDING  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUPRVSD FIELD EXPR RESEV 591 2- 4 CREDITS  
 Prereq: RESEV 553 OR RESEV 680  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

PROGRAM ASSESS&EVAL RESEV 597 3 CREDITS  
 Prereq: RESEV 550  
 Note: COURSE RESTRICTED TO GRADUATE STUDENTS IN THE  
 HUMAN SCIENCES COLLEGE. OTHER STUDENTS MUST CONTACT  
 THE DEPARTMENT AT 294-1241.  
 6218005 TWR 7:30-12:30  
 MEETS: MAY 21-JUNE 6

ADV SPECIAL TOPICS RESEV 690 1- 3 CREDITS  
 Prereq: GRADUATE STANDING  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH RESEV 699 VAR. CREDITS  
 Prereq: GRADUATE STANDING  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**RUSSIAN**

INDEPENDENT STUDY RUS 490 1- 6 CREDITS  
 Prereq: 6 CR IN RUSSIAN; PERMISSION OF DEPT CHAIR  
 Note: NO MORE THAN 9 CREDITS IN RUS 490 MAY BE  
 APPLIED TOWARD GRADUATION  
 Permission of department chair required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RUSSIAN INTERNSHIP RUS 499 1- 3 CREDITS  
 Prereq: 9 CREDITS OF RUSSIAN AT THE 300 LEVEL;  
 PERMISSION OF ADVISER AND WORLD LANGUAGES AND  
 CULTURES INTERNSHIP COORDINATOR  
 Note: NO MORE THAN 3 CREDITS IN RUS 499 MAY BE  
 APPLIED TOWARD GRADUATION IN THE MAJOR  
 Department permission required.  
 Satisfactory-Fail Only.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**SOCIOLOGY**

INTRO TO SOCIOLOGY SOC 134 3 CREDITS  
 Note: CREDIT FOR EITHER SOC 130 OR SOC 134, BUT NOT  
 BOTH, MAY BE APPLIED TOWARD GRADUATION  
 6346005 A MTWRF 9:50-11:50  
 MEETS: JUNE 17-JULY 12

SOC PSYCH: SOC PERSP SOC 305 3 CREDITS  
 Prereq: SOC 130 OR SOC 134  
 6355005 A MTWRF 8:40-10:40  
 MEETS: JUNE 17-JULY 12

SEX&GENDER IN SOCIE SOC 327 3 CREDITS  
 Prereq: SOC 130 OR SOC 134  
 Note: Meets U.S. diversity reqmt  
 6356005 A MTWRF 9:50-11:50  
 MEETS: MAY 20-JUNE 14  
 6356010 B MTWRF 9:50-11:50  
 MEETS: JUNE 17-JULY 12

CRIM & JUV JUST PRAC SOC 460 3-12 CREDITS  
 Prereq: JR/SR CLASSIFICATN; PERMISSN OF THE CJ ST  
 COORDINATOR; MAJOR OR MINOR IN SOC, OR CJ ST MINOR  
 Note: NO MORE THAN 12 CREDITS OF FIELD EXPERIENCE  
 (SOC 454 & 460) MAY BE APPLIED TOWARD GRADUATION.  
 NO CREDITS IN SOC 460 MAY BE USED TO SATISFY MINIMUM  
 SOCIOLOGY REQUIREMENTS FOR SOCIOLOGY MAJORS.  
 Satisfactory-Fail Only.  
 6370005 A ARRANGED  
 MEETS: MAY 20-AUG 9

INDEP STUDY GEN SOC SOC 490A 1- 3 CREDITS  
 Prereq: 6 CR IN SOC AND PERMISSION OF INSTRUCTOR  
 Note: STUDENTS IN THE COLLEGE OF AGRICULTURE MAY  
 APPLY NO MORE THAN 6 CREDITS OF SOC 490 TOWARD  
 THE TOTAL OF 128 CREDITS REQUIRED FOR GRADUATION.  
 STUDENTS IN THE LAS COLLEGE MAY APPLY NO MORE THAN  
 9 CREDITS OF SOC 490 TOWARD GRADUATION.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## SOCIOLOGY

(CONTINUED)

IND STUDY RURAL SOC SOC 490B 1- 3 CREDITS  
 Prereq: 6 CR IN SOC AND INSTRUCTOR PERMISSION  
 Note: STUDENTS IN THE COLLEGE OF AGRICULTURE MAY  
 APPLY NO MORE THAN 6 CREDITS OF SOC 490 TOWARD  
 THE TOTAL OF 128 CREDITS REQUIRED FOR GRADUATION.  
 STUDENTS IN THE LAS COLLEGE MAY APPLY NO MORE THAN  
 9 CREDITS OF SOC 490 TOWARD GRADUATION.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS SOC 490H 1- 3 CREDITS  
 Prereq: 6 CR IN SOC AND PERMISSION OF INSTRUCTOR,  
 MEMBERSHIP IN UNIV HONORS PROGRAM  
 Note: STUDENTS IN THE COLLEGE OF AGRICULTURE MAY  
 APPLY NO MORE THAN 6 CREDITS OF SOC 490 TOWARD  
 THE TOTAL OF 128 CREDITS REQUIRED FOR GRADUATION.  
 STUDENTS IN THE LAS COLLEGE MAY APPLY NO MORE THAN  
 9 CREDITS OF SOC 490 TOWARD GRADUATION.  
 RESTRICTED TO UNIV HONORS PROGRAM STUDENTS ONLY.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOPICS GEN SOC SOC 590A 1- 3 CREDITS  
 Prereq: 6 CR IN SOC; SR OR GRADUATE CLASSIFICATN  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPCS RURAL SOC SOC 590B 1- 3 CREDITS  
 Prereq: 6 CR IN SOC; SR OR GRADUATE CLASSIFICATN  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

MASTERS RES GEN SOC SOC 599A 1- 6 CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

MASTERS RSRCH RURAL SOC 599B 1- 6 CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH GENERL SOC SOC 699A 1- 8 CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH RURAL SOC SOC 699B 1- 8 CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**SOFTWARE ENGINEERING**

COOPERATIVE EDUCATN S E 298 R CREDIT  
 Prereq: PERMISSION OF DEPT AND CAREER SERVICES  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SUMMER INTERNSHIP S E 396 R CREDIT  
 Prereq: PERMISSION OF DEPT AND CAREER SERVICES  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN S E 398 R CREDIT  
 Prereq: S E 298, PERMISSION OF DEPT & CAREER  
 SERVICES  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY S E 490 VAR. CREDITS  
 Prereq: SENIOR CLASSIFICATION IN SOFTWARE ENGR  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COOPERATIVE EDUCATN S E 498 R CREDIT  
 Prereq: S E 398, PERMISSION OF DEPT & CAREER  
 SERVICES  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**SPANISH**

ELEMENTRY SPANISH I SPAN 101 4 CREDITS  
 6473005 1 MTWRF 8:40-11:40  
 MEETS: MAY 20-JUNE 14

Note: Materials and equipment use fee \$25.00  
 6473010 2 MTWRF 12:10-3:10  
 MEETS: MAY 20-JUNE 14  
 Note: Materials and equipment use fee \$25.00

ELEM SPANISH II SPAN 102 4 CREDITS  
 Prereq: SPAN 101, SPAN 97 OR PLACEMENT BY  
 DEPARTMENTAL EXAM

Note: Meets international perspectives reqmt  
 6474005 1 MTWRF 8:40-11:40  
 MEETS: JUNE 17-JULY 12  
 Note: Materials and equipment use fee \$25.00  
 6474010 2 MTWRF 12:10-3:10  
 MEETS: JUNE 17-JULY 12  
 Note: Materials and equipment use fee \$25.00

STUDY ABROAD SPAN 395 1-10 CREDITS  
 Prereq: 2 YRS UNIV-LEVEL SPANISH OR EQUIVALENT  
 Note: Meets international perspectives reqmt  
 Department permission required.

6489025 RG ARRANGED  
 MEETS: MAY 28-JULY 18  
 Note: SECTION RG IS REGENTS STUDY ABROAD IN PERU.  
 OFFERED FOR 3 CREDITS.

Tuition Category: Regents Summer Study Abroad  
 6489030 R2 ARRANGED  
 MEETS: MAY 28-JULY 18  
 Note: SECTION R2 IS REGENTS STUDY ABROAD IN PERU.  
 OFFERED FOR 3 CREDITS.  
 Tuition Category: Regents Summer Study Abroad

## SPANISH

(CONTINUED)

- INDEPENDENT STUDY SPAN 490 1- 6 CREDITS  
Prereq: 6 CR IN SPANISH; PERMISSION OF DEPT CHAIR  
Note: NO MORE THAN 6 CREDITS IN SPAN 490 MAY BE APPLIED TOWARD GRADUATION  
Permission of department chair required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- SPANISH INTERNSHIP SPAN 499 1- 3 CREDITS  
Prereq: 9 CREDITS OF SPAN AT 300 LEVEL; PERMISSN OF ADVISER AND WORLD LANGUAGES AND CULTURES INTERNSHIP COORDINATOR  
Note: COURSE ONLY OFFERED FOR 3 CREDITS SUMMER 2013. NO MORE THAN 3 CREDITS IN SPAN 499 MAY BE APPLIED TOWARD GRADUATION IN THE MAJOR.  
Department permission required.  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- SPL TOP SPANISH LIT SPAN 590A 1- 4 CREDITS  
Prereq: PERMSN OF INSTRUCTOR; 6 CR 400-LEVEL SPAN  
Note: COURSE ONLY OFFERED FOR 2 CREDITS SUMMER 2013  
2572005 DB ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Instructor permission required.
- SPL TOP LANG PEDAGY SPAN 590C 1- 4 CREDITS  
Prereq: PERMSN OF INSTRUCTOR; 6 CR 400-LEVEL SPAN  
3905800 SP ARRANGED GASTA C  
MEETS: JUNE 14-28  
Note: SEC SP TAUGHT IN CACERES, SPAIN. SUMMER SEMINAR IN SPAIN FOR SPANISH TEACHERS. STUDY ABROAD SUMMER 2013 OFFERED FOR 2 CREDITS  
Study Abroad Administrative Fee Applies

**SPECIAL EDUCATION**

- INDEPENDENT STUDY SP ED 490 1- 5 CREDITS  
Prereq: 12 CR IN EL ED, PERMISSION OF DEPT CHAIR  
Note: Department permission required 1st week.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- TCH EXCPT SC GEN ED SP ED 501 3 CREDITS  
Prereq: BACCALAUREATE DEGREE  
2607005 1 F 5:30-8:30PM  
S 8:00-4:00  
MEETS: MAY 17-JUNE 15  
Note: NO MEETINGS MAY 24,25
- TCH STRUGL ADOL RDR SP ED 553 3 CREDITS  
Prereq: TEACHING LICENSE  
7663005 1 MTWR 9:00-11:30  
MEETS: JUNE 3-28
- SPECIAL TOPICS SP ED 590 1- 5 CREDITS  
Prereq: 15 CRS IN EDUC; PERMISSION OF DEPT CHAIR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- FLD EXP BHV/DS,5-21 SP ED 591K 1- 6 CREDITS  
Prereq: 15 GRAD CREDITS IN SPECIAL AREA;  
ADMISSION TO GRAD PROGRAM IN SPECIAL EDUCATION  
Note: COURSE RESTRICTED TO C I MAJORS ONLY  
Professional support, field trips &/or travel fee \$33.00  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- CREATIVE COMPONENT SP ED 599 1- 5 CREDITS  
Prereq: 15 CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS
- RESEARCH SP ED 699 VAR. CREDITS  
Prereq: 15 CREDITS IN EDUCATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**SPEECH COMMUNICATION**

- POPULR CULTUR ANALY SP CM 205 3 CREDITS  
Prereq: CREDIT IN OR EXEMPTION FROM ENGL 150  
3001005 A MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12
- FUND PUBLIC SPEAKNG SP CM 212 3 CREDITS  
8643010 1 MTWRF 7:30-9:40  
MTWRF 9:50-12:00  
MEETS: MAY 20-JUNE 14  
Note: ON MAY 20 ATTEND ONLY THE 9:50 A.M. LECTURE. LECTURE AND DISCUSSION MEET ON AN ALTERNATING SCHEDULE TO BE ANNOUNCED IN FIRST LECTURE. CLASS MEETS 2 HOURS AND 10 MINUTES EACH DAY.  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643015 2 MTWRF 9:50-12:00  
MTWRF 9:50-12:00  
MEETS: MAY 20-JUNE 14  
Note: ON MAY 20 ATTEND ONLY THE LECTURE. LECTURE IS THE SECOND MEETING TIME AND LOCATION LISTED ON SCHEDULE. LECTURE AND DISCUSSION MEET ON ALTERNATING SCHEDULE ANNOUNCED IN FIRST DAY OF LECTURE.  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643020 3 MTWRF 9:50-12:00  
MTWRF 9:50-12:00  
MEETS: MAY 20-JUNE 14  
Note: ON MAY 20 ATTEND ONLY THE LECTURE. LECTURE IS THE SECOND MEETING TIME AND LOCATION LISTED ON

## SPEECH COMMUNICATION

(CONTINUED)

- FUND PUBLIC SPEAKNG SP CM 212 3 CREDITS  
SCHEDULE. LECTURE AND DISCUSSION MEET ON ALTERNATING SCHEDULE ANNOUNCED IN FIRST DAY OF LECTURE.  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643025 4 MTWRF 9:50-12:00  
MTWRF 9:50-12:00  
MEETS: MAY 20-JUNE 14  
Note: ON MAY 20 ATTEND ONLY THE LECTURE. LECTURE IS THE SECOND MEETING TIME AND LOCATION LISTED ON SCHEDULE. LECTURE AND DISCUSSION MEET ON ALTERNATING SCHEDULE ANNOUNCED IN FIRST DAY OF LECTURE.  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643030 5 MTWRF 12:10-2:20  
MTWRF 9:50-12:00  
MEETS: MAY 20-JUNE 14  
Note: ON MAY 20 ATTEND ONLY THE 9:50 A.M. LECTURE. LECTURE AND DISCUSSION MEET ON AN ALTERNATING SCHEDULE TO BE ANNOUNCED IN FIRST LECTURE. CLASS MEETS 2 HOURS, 10 MINUTES EACH DAY.  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643035 6 MTWRF 12:10-2:20  
MTWRF 9:50-12:00  
MEETS: MAY 20-JUNE 14  
Note: ON MAY 20 ATTEND ONLY THE 9:50 A.M. LECTURE. LECTURE AND DISCUSSION MEET ON AN ALTERNATING SCHEDULE TO BE ANNOUNCED IN FIRST LECTURE. CLASS MEETS 2 HOURS, 10 MINUTES EACH DAY.  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643040 7 MTWRF 9:50-12:00  
MTWRF 9:50-12:00  
MEETS: MAY 20-JUNE 14  
Note: ON MAY 20 ATTEND ONLY THE LECTURE. LECTURE IS THE SECOND MEETING TIME AND LOCATION LISTED ON SCHEDULE. LECTURE AND DISCUSSION MEET ON ALTERNATING SCHEDULE ANNOUNCED IN FIRST DAY OF LECTURE. SECTION 7 IS A CROSS-CULTURAL SECTION. U.S. STUDENTS ONLY. MEETS JOINTLY WITH SEC 8.  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643045 8 MTWRF 9:50-12:00  
MTWRF 9:50-12:00  
MEETS: MAY 20-JUNE 14  
Note: ON MAY 20 ATTEND ONLY THE LECTURE. LECTURE IS THE SECOND MEETING TIME AND LOCATION LISTED ON SCHEDULE. LECTURE AND DISCUSSION MEET ON ALTERNATING SCHEDULE ANNOUNCED IN FIRST DAY OF LECTURE. SECTION 8 IS A CROSS-CULTURAL SECTION. INTERNATIONAL STUDENTS ONLY. MEETS WITH SEC 7.  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643065 9 MTWRF 7:30-9:40  
MTWRF 9:50-12:00  
MEETS: MAY 20-JUNE 14  
Note: ON MAY 20 ATTEND ONLY THE 9:50 A.M. LECTURE. LECTURE AND DISCUSSION MEET ON AN ALTERNATING SCHEDULE TO BE ANNOUNCED IN FIRST LECTURE. CLASS MEETS 2 HOURS, 10 MINUTES EACH DAY. SECTION 9 IS A CROSS-CULTURAL SECTION. U.S. STUDENTS ONLY. MEETS JOINTLY WITH SEC 10.  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643070 10 MTWRF 7:30-9:40  
MTWRF 9:50-12:00  
MEETS: MAY 20-JUNE 14  
Note: ON MAY 20 ATTEND ONLY THE 9:50 A.M. LECTURE. LECTURE AND DISCUSSION MEET ON AN ALTERNATING SCHEDULE TO BE ANNOUNCED IN FIRST LECTURE. CLASS MEETS 2 HOURS, 10 MINUTES EACH DAY. SECTION 10 IS A CROSS-CULTURAL SECTION. INTERNATIONAL STUDENTS ONLY. MEETS WITH SEC 9.  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643075 11 MWF 7:30-9:10  
MEETS: JUNE 17-AUG 9  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643080 12 MWF 9:50-11:30  
MEETS: JUNE 17-AUG 9  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643085 13 MWF 9:50-11:30  
MEETS: JUNE 17-AUG 9  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- 8643090 14 MTWRF 12:10-2:20  
MEETS: JUNE 17-JULY 12  
Section info: <http://www.public.iastate.edu/~aslagell/spcm212/index.html>
- SPECIAL PROJECTS SP CM 290 1- 2 CREDITS  
Prereq: 3 CR IN SP CM; PERMISSN OF DEPT CHAIR  
Note: NO CREDITS IN SP CM 290 MAY BE APPLIED TOWARD THE MINIMUM REQUIRED CREDITS FOR THE MAJOR. NO CREDITS IN SP CM 290 MAY BE APPLIED TOWARD THE MINOR.  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS



## SPEECH COMMUNICATION (CONTINUED)

CLSRM&amp;WORKSHOP COMM SP CM 313 3 CREDITS

Prereq: SP CM 212  
6430005 MTWRF 12:10-2:20  
MEETS: JUNE 17-JULY 12

GENDER &amp; COMMUNICTN SP CM 323 3 CREDITS

Note: Meets U.S. diversity reqmt  
Available for nonmajor graduate credit  
2640005 A MTWRF 12:10-2:20  
MEETS: MAY 20-JUNE 14  
2640010 B MTWRF 9:50-12:00  
MEETS: JUNE 17-JULY 12

INDEPENDENT STUDY SP CM 490 1- 3 CREDITS

Prereq: 18 CREDITS IN SP CM, JUNIOR CLASSIFICATN,  
PERMISSION OF DEPT. CHAIR  
Note: PERMISSION OF AMY SLAGELL REQUIRED TO ADD.  
PROCESS APPROVED ADD SLIP IN 10 ENRL SC. NO CREDITS  
IN SP CM 490 MAY BE APPLIED TOWARD THE MINOR.  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

COMMUNIC INTERNSHIP SP CM 499 1- 3 CREDITS

Prereq: 18 CR IN SP CM COURSES, OTHER COURSES  
ADVISED DEEMS APPROPRIATE; 2ND SEMESTER JR OR SR  
STANDING; CUM GPA OF AT LEAST 2.5 OVERALL & 3.0  
IN SP CM; PERMISSION OF THE INTERNSHIP COMMITTEE  
Note: NO CREDITS IN SP CM 499 MAY BE APPLIED TOWARD THE  
MINIMUM REQUIRED CREDITS FOR THE MAJOR. NO CREDITS  
IN SP CM 499 MAY BE APPLIED TOWARD THE MINOR.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS SP CM 590 1- 4 CREDITS

Prereq: PERMISSION OF DEPARTMENT CHAIR  
Note: NO CREDITS IN SP CM 590 MAY BE APPLIED TOWARD THE  
MINIMUM REQUIRED CREDITS FOR THE MAJOR. NO CREDITS  
IN SP CM 590 MAY BE APPLIED TOWARD THE MINOR.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## STATISTICS

PRIN OF STATISTICS STAT 101 4 CREDITS

Prereq: ONE AND A HALF YRS OF H S ALGEBRA  
Note: CREDIT FOR ONLY ONE OF THE FOLLOWING MAY BE  
APPLIED TOWARD GRADUATION: STAT 101, STAT 104,  
STAT 105, STAT 226.6502005 A MTWRF 8:40-9:40  
MR 9:50-11:50  
MEETS: MAY 20-JULY 12  
6502010 B MTWRF 8:40-9:40  
TF 9:50-11:50  
MEETS: MAY 20-JULY 12

INTRO TO STATISTICS STAT 104 3 CREDITS

Prereq: 1 & 1/2 YRS OF H S ALGEBRA  
Note: CREDIT FOR ONLY ONE OF THE FOLLOWING MAY BE  
APPLIED TOWARD GRADUATION: STAT 101, STAT 104,  
STAT 105, STAT 226.  
Instructor permission required 1st week.6503005 A MWF 8:40-9:40  
TF 1:20-3:20  
MEETS: MAY 20-JULY 12

INTRO STAT FOR ENGR STAT 105 3 CREDITS

Prereq: MATH 165 (OR MATH 165H)  
Note: CREDIT FOR EITHER STAT 105 OR STAT 305, BUT NOT  
BOTH, MAY BE APPLIED TOWARD GRADUATION. CREDIT FOR  
ONLY ONE OF THE FOLLOWING MAY BE APPLIED TOWARD  
GRADUATION: STAT 101, STAT 104, STAT 105, STAT 226.  
RESTRICTED TO A B E, A E, AE EM, AER E, C C E, C E,  
CCE E, CH E, CON E, CPR E, E CPE, E E, ENGR, ENGRS,  
I E, IMSE, M E, M S E, MAT E, MTEOR, SYS E MAJORS.6504005 MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12

INTR BUSINES STAT I STAT 226 3 CREDITS

Prereq: MATH 150 OR MATH 165  
Note: COURSE RESTRICTED TO ACCT, BUS S, BUSAD, BUS U,  
BUSEC, ECON, FIN, I BUS, LSCM, MGMT, MIS, MKT, OSCM,  
P BUS, SCM, AG B MAJORS ONLY. CREDIT FOR ONLY ONE OF  
THE FOLLOWING MAY BE APPLIED TOWARD GRADUATION:  
STAT 226, STAT 101, STAT 104, STAT 105.3975005 A MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12  
3975010 B MTWRF 8:40-9:40  
MEETS: MAY 20-JULY 12

ENGINEERING STAT STAT 305 3 CREDITS

Prereq: MATH 165 (OR MATH 165H)  
Note: CREDIT FOR EITHER STAT 105 OR STAT 305, BUT NOT  
BOTH, MAY BE APPLIED TOWARD GRADUATION6509005 A MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12  
Note: Instructor permission required 1st week.  
6509010 B ARRANGED  
MEETS: MAY 20-JULY 12  
Note: Course delivery is WWW

## STATISTICS (CONTINUED)

INTR BUSINS STAT II STAT 326 3 CREDITS

Prereq: STAT 226  
6510005 A MWR 8:40-9:40  
TF 8:40-10:40  
MEETS: MAY 20-JULY 12

PROBAB&amp;STAT COM SCI STAT 330 3 CREDITS

Prereq: MATH 166  
Note: Available for nonmajor graduate credit  
7372005 A MTWRF 9:50-10:50  
MEETS: MAY 20-JULY 12

STAT METH FOR RSRCH STAT 401 4 CREDITS

Prereq: STAT 101 OR STAT 104 OR STAT 105 OR STAT  
226  
Note: CREDIT FOR ONLY ONE OF THE FOLLOWING COURSES MAY  
BE APPLIED TOWARD GRADUATION BY DIETETICS STUDENTS:  
DIET 554, STAT 401, STAT 495, STAT 542  
Available for nonmajor graduate credit.  
Instructor permission required 1st week.6514005 A ARRANGED  
MEETS: MAY 20-JULY 12Note: Course delivery is WWW  
6514010 B MTWRF 8:40-9:40  
MR 9:50-11:50  
MEETS: MAY 20-JULY 12Note: SEC B FOR BIOLOGICAL AND PHYSICAL SCIENCES  
6514015 C MTWRF 8:40-9:40  
MR 9:50-11:50  
MEETS: MAY 20-JULY 12

STAT THEORY FOR RES STAT 447 4 CREDITS

Prereq: MATH 151 AND INST PERMISSION, OR MATH 265  
Note: CREDIT FOR EITHER STAT/MATH 341 OR STAT 447,  
BUT NOT BOTH, MAY BE APPLIED TOWARD GRADUATION  
Available for nonmajor graduate credit  
6523005 MTRF 8:40-10:20  
W 8:40-10:20  
MEETS: MAY 20-JULY 12  
Note: WEDNESDAY MEETINGS ONLY ON DATES WHEN EXAMS  
AND TUTORIALS ARE TO BE GIVEN

INDEPENDENT STUDY STAT 490 VAR. CREDITS

Prereq: 10 CREDITS IN STATISTICS  
Note: NO MORE THAN 9 CREDITS IN STAT 490 MAY BE  
APPLIED TOWARD GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECL TOPICS THEORY STAT 590A VAR. CREDITS

6554005 ARRANGED  
MEETS: MAY 20-AUG 9

SPCL TOPICS METHODS STAT 590B VAR. CREDITS

6555005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP DESGN EXPER STAT 590C VAR. CREDITS

6556005 ARRANGED  
MEETS: MAY 20-AUG 9

SPL TOP SAMP SURVEY STAT 590D VAR. CREDITS

6557005 ARRANGED  
MEETS: MAY 20-AUG 9

COOPERATIVE EDUCATN STAT 598 R CREDIT

Prereq: PERMISSION OF THE DEPARTMENT CHAIR  
4153005 ARRANGED  
MEETS: MAY 20-AUG 9  
Note: Permission of department chair required.

CREATIVE COMPONENT STAT 599 VAR. CREDITS

Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ADV SPL TOPC THEORY STAT 690A VAR. CREDITS

Prereq: PERMISSION OF INSTRUCTOR  
6851005 1 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH STAT 699 VAR. CREDITS

\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## SUPPLY CHAIN MANAGEMENT

SUPPLY CHAIN MGMT SCM 301 3 CREDITS

Prereq: ECON 101, STAT 226  
1629005 A1 MTWRF 2:30-4:30  
MEETS: MAY 20-JUNE 14Note: SECTION A1 RESTRICTED TO ACCT, AG B, AST,  
BUS S, BUS U, BUSEC, FIN, I TEC, LSCM, MGMT, MIS,  
MKT, OSCM, SCM UNDERGRAD MAJORS ONLY  
1629010 A2 MTWRF 2:30-4:30  
MEETS: MAY 20-JUNE 14Note: SECTION A2 RESTRICTED TO MAJORS OTHER THAN  
ACCT, AG B, AST, BUS S, BUS U, BUSEC, BUSAD, FIN,  
I R, I TEC, INFAS, LOMIS, LSCM, MGMT, MIS, MKT, OSCM,  
P BUS, SCIS, SCM

## SUPPLY CHAIN MANAGEMENT (CONTINUED)

INDEPENDENT STUDY SCM 490 1- 3 CREDITS  
Prereq: SCM 301, SENIOR CLASSIFICATN, INSTRUCTOR PERMISSION  
Note: COURSE NOT OPEN TO P BUS MAJORS  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS SCM 590 1- 3 CREDITS  
Prereq: GRAD CLASSIFICATION, INSTRUCTOR PERMISSN  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSEARCH PRACTICUM I SCM 650 1 CREDIT  
Prereq: ENROLLMENT IN THE PH D PROGRAM  
8057005 A ARRANGED  
MEETS: MAY 20-AUG 9

RSEARCH PRACTICUM II SCM 651 1 CREDIT  
Prereq: ENROLLMENT IN THE PH D PROGRAM  
8058005 A ARRANGED  
MEETS: MAY 20-AUG 9

**SUSTAINABLE AGRICULTURE**

SPECIAL TOPICS SUSAG 590 1- 3 CREDITS  
Prereq: GRAD CLASSIFICATION, INSTRUCTOR PERMISSN  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT SUSAG 599 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH SUSAG 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**TECHNOLOGY & SOCIAL CHANGE**

INDEPENDENT STUDY T SC 490 VAR. CREDITS  
Prereq: T SC 341, PERMISSION OF INSTRUCTR & T SC COORDINATOR  
Note: Permission of coordinator required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP TCH&SOC CHG T SC 590 VAR. CREDITS  
Prereq: T SC 541, PERMISSN OF INSTRUCTOR & T SC COORDINATOR  
Note: Permission of coordinator required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**TECHNOLOGY SYSTEMS MANAGEMENT**

TECHNOLGY INTERNSHP TSM 397 R CREDIT  
Prereq: AT LEAST 45 CREDITS OF COURSEWORK, IN AST OR I TEC MAJOR, INTERNSHIP COORDINATOR APPROVAL  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

WORK EXPRNCE TCHNOL TSM 399 2 CREDITS  
Prereq: TSM 397 AND APPROVAL OF INSTRUCTOR  
Note: NO MORE THAN 4 CREDITS OF TSM 399 MAY BE APPLIED TOWARD THE TOTAL CREDITS REQUIRED FOR GRADUATION  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS TSM 490H 1- 4 CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIF, INSTRUCTOR PERMISSION, COMPLETION OF INDEPENDENT STUDY CONTRACT AND APPROVAL BY DEPARTMENT  
Note: NO MORE THAN 4 CREDITS OF TSM 490 MAY BE USED TOWARD THE TOTAL OF 128 CREDITS REQ'D FOR GRADUATION. RESTRICTED TO HONORS PROGRAM STUDENTS ONLY.  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY MANUFACTRG TSM 490I 1- 4 CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIF, INSTRUCTOR PERMISSION, COMPLETION OF INDEPENDENT STUDY CONTRACT AND APPROVAL BY DEPARTMENT  
Note: NO MORE THAN 4 CREDITS OF TSM 490 MAY BE USED TOWARD THE TOTAL OF 128 CREDITS REQ'D FOR GRADUATION  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY BIOSYS MGT TSM 490J 1- 4 CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIF, INSTRUCTOR PERMISSION, COMPLETION OF INDEPENDENT STUDY CONTRACT AND APPROVAL BY DEPARTMENT  
Note: PERMISSION OF DEPARTMENT REQUIRED TO ADD. PROCESS APPROVED ADD SLIP IN 10 ENROLLMENT SERVICES CENTER. NO MORE THAN 4 CREDITS OF TSM 490 MAY BE USED TOWARD THE TOTAL OF 128 CREDITS REQUIRED FOR GRADUATION.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

IND STDY MACHIN SYS TSM 490M 1- 4 CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIF, INSTRUCTOR PERMISSION, COMPLETION OF INDEPENDENT STUDY CONTRACT AND APPROVAL BY DEPARTMENT  
Note: NO MORE THAN 4 CREDITS OF TSM 490 MAY BE USED TOWARD THE TOTAL OF 128 CREDITS REQ'D FOR GRADUATION  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## TECHNOLOGY SYSTEMS MANAGEMENT (CONTINUED)

IND STU OCCUP SAFET TSM 4900 1- 4 CREDITS  
Prereq: JUNIOR OR SENIOR CLASSIF, INSTRUCTOR PERMISSION, COMPLETION OF INDEPENDENT STUDY CONTRACT AND APPROVAL BY DEPARTMENT  
Note: NO MORE THAN 4 CREDITS OF TSM 490 MAY BE USED TOWARD THE TOTAL OF 128 CREDITS REQ'D FOR GRADUATION  
Department permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

WKSHP OCCUPA SAFETY TSM 493D 1- 4 CREDITS  
Satisfactory-Fail Only.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

TECHNOL POST-TRAVEL TSM 496C 1- 4 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Meets international perspectives reqmt  
9386800 PL ARRANGED KOZIEL J  
MEETS: MAY 14-JUNE 4  
Note: SEC PL TAUGHT IN POLAND, CZECH REPUBLIC & GERMANY. TRAVEL COURSE TO POLAND, SUMMMER 2013.  
OFFERED FOR 3 CREDITS.  
Study Abroad Administrative Fee Applies

SPL TP AG&BIOSY MG TSM 590A 1- 4 CREDITS  
Prereq: GRAD CLASSIFICATION IN INDUSTRIAL AND AG TECHNOLOGY, INSTRUCTOR PERMISSION, COMPLETION OF AN INDEPENDENT STUDY CONTRACT APPROVED BY MAJOR PROF  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP MACHINE SYS TSM 590B 1- 4 CREDITS  
Prereq: GRAD CLASSIFICATION IN INDUSTRIAL AND AG TECHNOLOGY, INSTRUCTOR PERMISSION, COMPLETION OF AN INDEPENDENT STUDY CONTRACT APPROVED BY MAJOR PROF  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC MANUFACTRG TSM 590C 1- 4 CREDITS  
Prereq: GRAD CLASSIFICATION IN INDUSTRIAL AND AG TECHNOLOGY, INSTRUCTOR PERMISSION, COMPLETION OF AN INDEPENDENT STUDY CONTRACT APPROVED BY MAJOR PROF  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP OCCUP SAFET TSM 590D 1- 4 CREDITS  
Prereq: GRAD CLASSIFICATION IN INDUSTRIAL AND AG TECHNOLOGY, INSTRUCTOR PERMISSION, COMPLETION OF AN INDEPENDENT STUDY CONTRACT APPROVED BY MAJOR PROF  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

MASTER'S TECH COMM TSM 598 1 CREDIT  
Satisfactory-Fail Only.  
1911005 ARRANGED  
MEETS: MAY 20-AUG 9

CREATIVE COMPONENT TSM 599 1- 3 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CURRIC DEV TEC&ENGR TSM 657 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
4588005 ARRANGED  
MEETS: MAY 20-AUG 9

TECHNOLGY INTERNSHP TSM 697 R CREDIT  
Prereq: PERMISSION OF MAJOR PROFESSOR AND APPROVAL BY DEPARTMENT CHAIR, GRAD CLASSIFICATION  
Satisfactory-Fail Only.  
4646005 ARRANGED  
MEETS: MAY 20-AUG 9

DOCTORAL TECH COMM TSM 698 1 CREDIT  
Satisfactory-Fail Only.  
1926005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH TSM 699 1- 6 CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**TEXTILES & CLOTHING**

AESTHETC&BRAND IMAG T C 245 3 CREDITS  
Prereq: T C 131, T C 165; CREDIT OR ENROLLMENT IN T C 204  
6609005 A ARRANGED  
MEETS: MAY 20-JULY 12  
Note: Course delivery is WWW

HIST 20TH C FASHION T C 356 3 CREDITS  
Prereq: 3 CR HIST OR ART H. T C 204 RECOMMENDED.  
4473005 A ARRANGED  
MEETS: MAY 20-JUNE 14  
Note: Course delivery is WWW

CULTUR PERSPC DRESS T C 362 3 CREDITS  
Prereq: T C 165 OR 3 CREDITS IN ANTHR, PSYCH, OR SOC  
Note: Meets international perspectives reqmt  
6622005 A ARRANGED  
MEETS: JULY 15-AUG 9  
Note: Course delivery is WWW

## TEXTILES &amp; CLOTHING

(CONTINUED)

IND STU TXTL&AP DSN T C 490C VAR. CREDITS  
Prereq: 6 CR IN T C, PERMISSION OF INSTRUCTOR,  
ADVISER AND DEPARTMENT CHAIR  
Note: Instructor permission required.  
Materials fee \$30.00  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STDY AESTHETICS T C 490D VAR. CREDITS  
Prereq: 6 CR IN T C, PERMISSION OF INSTRUCTOR,  
ADVISER AND DEPARTMENT CHAIR  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Instructor permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STU SOC&PSY T C T C 490F VAR. CREDITS  
Prereq: 6 CR IN T C, PERMISSION OF INSTRUCTOR,  
ADVISER AND DEPARTMENT CHAIR  
Note: Instructor permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEP STUDY HONORS T C 490H VAR. CREDITS  
Prereq: 6 CR IN T C, PERMISSION OF INSTR, ADVISER  
AND DEPT CHAIR, MEMBERSHIP IN UNIV HONORS PROGRAM  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STDY MERCHANDSG T C 490I VAR. CREDITS  
Prereq: 6 CR IN T C, PERMISSION OF INSTRUCTOR,  
ADVISER AND DEPARTMENT CHAIR  
Note: Instructor permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STU CULTR ANALY T C 490K VAR. CREDITS  
Prereq: 6 CR IN T C, PERMISSION OF INSTRUCTOR,  
ADVISER AND DEPARTMENT CHAIR  
Note: Instructor permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

IND STDY TECH DESGN T C 490O VAR. CREDITS  
Prereq: 6 CR IN T C, PERMISSION OF INSTRUCTOR,  
ADVISER AND DEPARTMENT CHAIR  
Note: Instructor permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

UNDERGRAD RESEARCH T C 499 1- 3 CREDITS  
Prereq: SENIOR CLASSIFICATN, 15 CREDITS IN T C,  
PERMISSION OF INSTRUCTOR, ADVISER, & DEPT CHAIR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP TEXTILE SCI T C 590A VAR. CREDITS  
Prereq: PERMISSION OF DEPT CHAIR & INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP TXTL&AP DSN T C 590C VAR. CREDITS  
Prereq: PERMISSION OF DEPT CHAIR & INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP HIST COSTUM T C 590E VAR. CREDITS  
Prereq: PERMISSION OF DEPT CHAIR & INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP SOC-PSY ASP T C 590F VAR. CREDITS  
Prereq: PERMISSION OF DEPT CHAIR & INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP CONSMR BEHV T C 590G VAR. CREDITS  
Prereq: PERMISSION OF DEPT CHAIR & INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOP MERCHANDSNG T C 590I VAR. CREDITS  
Prereq: PERMISSION OF DEPT CHAIR & INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SP TOP CULTUR ANALY T C 590K VAR. CREDITS  
Prereq: PERMISSION OF DEPT CHAIR & INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPCL TOPICS MUSEUMS T C 590M VAR. CREDITS  
Prereq: PERMISSION OF DEPT CHAIR & INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPL TOPC TECH DESGN T C 590O VAR. CREDITS  
Prereq: PERMISSION OF DEPT CHAIR & INSTRUCTOR  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADVANCED TOPICS T C 690 VAR. CREDITS  
Prereq: ENROLLMENT IN DOCTORAL PROGRAM, PERMISSN  
OF INSTRUCTOR, AND APPROVAL OF D.O.G.E.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

RESEARCH T C 699 VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## THEATRE

INTR PERFORMNG ARTS THTRE 106 3 CREDITS  
6729005 MTWRF 8:40-9:40  
MEETS: JUNE 17-AUG 9

SPECIAL PROJECTS THTRE 290 1- 3 CREDITS  
Prereq: 3 CREDITS IN THEATRE; PERMISSION OF  
INSTRUCTOR; APPROVAL OF WRITTEN PROPOSAL  
Note: Instructor permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

ADV THTRE PRACTICUM THTRE 469 1- 3 CREDITS  
Prereq: 9 CR IN THEATRE COURSES, JR CLASSIFICATN  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY THTRE 490 1- 3 CREDITS  
Prereq: 9 CREDITS IN THEATRE, APPROVED WRITTEN  
PROPOSAL, JUNIOR CLASSIFICATION  
Note: NO MORE THAN 9 CREDITS OF THTRE 490 MAY BE  
APPLIED TOWARD GRADUATION  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

THEATRE INTERNSHIP THTRE 499 1- 8 CREDITS  
Prereq: 18 CR IN THEATRE, OTHER COURSES DEEMED  
APPROPRIATE BY FACULTY ADVISER; 2ND SEMESTER JUNIOR  
OR SENIOR STANDING; CUM GPA OF AT LEAST 2.50 OVERALL  
AND 3.00 IN THTRE COURSES  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS THTRE 590 1- 4 CREDITS  
Prereq: APPROVED WRITTEN PROPOSAL  
Note: Permission of department chair required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## TOXICOLOGY

TOXICOLOGY SEMINAR TOX 504 1 CREDIT  
7126005 Prereq: PERMISSION OF INSTRUCTOR  
1 ARRANGED  
MEETS: MAY 20-AUG 9

CLIN &DIAGNOS TOXIC TOX 546 1- 3 CREDITS  
1231005 Prereq: D.V.M. DEGREE OR VDPAM 526  
ARRANGED  
MEETS: MAY 20-AUG 9

SPECIAL TOPICS TOX 590 VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

RESEARCH TOX 699 VAR. CREDITS  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## TRANSPORTATION

CREATIVE COMPONENT TRANS 599 1- 3 CREDITS  
4160005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH TRANS 699 VAR. CREDITS  
6787005 ARRANGED  
MEETS: MAY 20-AUG 9

## UNIVERSITY STUDIES

INDEPENDENT STUDY U ST 490 VAR. CREDITS  
Prereq: PERMISSION OF THE ASSOCIATE PROVOST  
Note: PERMISSN OF ASSOC PROVOST FOR UNDERGRAD PROGRAMS  
REQUIRED. PROCESS APPROVED ADD SLIP IN 10 ENRL SC.  
Department permission required.  
\*\*\*\*\*  
SEE DEPT FOR REFERENCE NUMBERS

## VET DIAGNOSTIC &amp; PRODUCTION AN MED

PRECPTRSP V MED PRA VDPAM 420 1- 6 CREDITS  
9072005 Prereq: CLASSIFICATION AS A FOURTH YEAR STUDENT  
IN VETERINARY MEDICINE  
ARRANGED

APP MD CATTL MARKTG VDPAM 422A 2 CREDITS  
4577005 Prereq: VDPAM 310; ABILITY TO PROVIDE OWN  
TRANSPORTATION TO EACH SITE  
ARRANGED

APP BEEF MED FEEDLT VDPAM 422C 2 CREDITS  
4578005 Prereq: VDPAM 310; ABILITY TO PROVIDE OWN  
TRANSPORTATION TO EACH SITE  
ARRANGED

APP BF MED CONSULTI VDPAM 422D 2 CREDITS  
4591005 Prereq: VDPAM 310; ABILITY TO PROVIDE OWN  
TRANSPORTATION TO EACH SITE  
ARRANGED

## VET DIAGNOSTIC &amp; PRODUCTION AN MED (CONTINUED)

DAIRY HERD PROBL ID VDPAM 437 2 CREDITS  
Prereq: 4TH-YEAR CLASSIFICATION IN VET MED  
6425005 ARRANGED

MASTITIS PROB INVSTG VDPAM 438 2 CREDITS  
Prereq: 4TH-YEAR CLASSIFICATION IN VET MED  
6861005 ARRANGED

COW&CALF PROB:NUTRI VDPAM 439 2 CREDITS  
Prereq: 4TH-YEAR CLASSIFICATION IN VET MED  
6422005 ARRANGED

CLIN EMBRYO TRANSFR VDPAM 451 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
4334005 ARRANGED

FD AN&CAM FIELD SRV VDPAM 476 2 CREDITS  
Prereq: VDPAM 310; FOURTH YEAR CLASSIFICATION IN  
VETERINARY MEDICINE  
8725005 MTWRF 8:00-12:00  
MTWRF 1:00-5:00

FD ANM&CAM MED&SURG VDPAM 477 1- 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
Note: Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
6909005 MTWRF 8:00-12:00  
MTWRF 2:00-5:00

SWI PROD MED PRECEP VDPAM 479 1- 6 CREDITS  
Prereq: VDPAM 310  
Note: COURSE RESTRICTED TO VM 4 STUDENTS ONLY  
5454005 ARRANGED

SWINE PRODUCTN MED VDPAM 480 2 CREDITS  
Prereq: VDPAM 310 OR PERMISSION OF INSTRUCTOR  
5572005 ARRANGED

BEEF PRODUCTION MED VDPAM 483 2 CREDITS  
Prereq: VDPAM 310  
5562005 MTWRF 8:00-12:00  
MTWRF 1:00-5:00

DAIRY PRODUCTN MED VDPAM 484 2 CREDITS  
Prereq: VDPAM 310; FOURTH-YEAR CLASSIFICATION IN  
VETERINARY MEDICINE  
5609005 MTWRF 8:00-12:00  
MTWRF 2:00-5:00

APP DAIRY PRODU MED VDPAM 485 1- 6 CREDITS  
Prereq: VDPAM 484  
Note: MULTIPLE ENROLLMENTS ARE ALLOWED. RESTRICTED  
TO VM 4 STUDENTS ONLY.  
5431005 ARRANGED

INDEPENDENT STUDY VDPAM 490 1- 5 CREDITS  
Prereq: PERMISSION OF DEPARTMENT CHAIR  
Note: Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INT'L PRECEPTORSHIP VDPAM 496 1-12 CREDITS  
Prereq: SECOND-YEAR CLASSIFICATION IN VET MED  
Satisfactory-Fail Only.  
7848005 ARRANGED  
7848800 CR ARRANGED RAMIREZ A  
MEETS: JUNE 3-14  
Note: SEC CR TAUGHT IN COSTA RICA. WILDLIFE &  
PRODUCTION ANIMAL MEDICINE IN COSTA RICA.  
STUDY ABROAD SUMMER 2013. OFFERED FOR 3 CREDITS  
Study Abroad Administrative Fee Applies

INTRO DNA TECHNIQS VDPAM 542A 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
7389005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JUNE 17-JULY 2

INTR PROTEIN TECHNQ VDPAM 542B 1 CREDIT  
Prereq: GRADUATE CLASSIFICATION  
Satisfactory-Fail Only.  
7391005 1 MTRF 1:00-2:00  
MTRF 2:00-4:00  
MEETS: JULY 15-30

CLIN &DIAGNOS TOXIC VDPAM 546 1- 3 CREDITS  
Prereq: D.V.M. DEGREE OR VDPAM 526  
7676005 ARRANGED  
MEETS: MAY 20-AUG 9

ADV VET DIAGNOS LAB VDPAM 551 1- 3 CREDITS  
Prereq: VDPAM 455  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## VET DIAGNOSTIC &amp; PRODUCTION AN MED (CONTINUED)

SPECIAL TOPICS VDPAM 590 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INT'L PRECEPTORSHIP VDPAM 596 1-12 CREDITS  
Prereq: ADMISSION TO GRADUATE COLLEGE  
Satisfactory-Fail Only.  
7868005 ARRANGED  
MEETS: MAY 20-AUG 9

CREATIVE COMPONENT VDPAM 599 VAR. CREDITS  
Prereq: ENROLLMENT IN NONTHESIS MASTER'S DEGREE  
PROGRAM  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH VDPAM 699 VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## VETERINARY CLINICAL SCIENCES

ONCOLOGY V C S 409 1- 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN VET MED  
Note: COURSE ONLY OFFERED FOR 2 CREDITS SUMMER 2013  
9213005 MTWRF 8:00-5:00

PRECEPTOR COMPAN/EQ V C S 419 2- 6 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED,  
PERMISSION OF DEPARTMENT CURRICULUM COMMITTEE  
1664005 1 ARRANGED

BLANK PK ZOO ROTATN V C S 422 4 CREDITS  
Prereq: V C S 405, FOURTH-YEAR CLASSIFICATION IN  
V MED, PERMISSION OF INSTRUCTOR  
1166005 ARRANGED  
Note: Permission of instructor required. Process  
Approved add slip in 2270A Vet Med.

SM ANIML SHELTR MED V C S 437 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN VET MED  
7944005 MTWRF 8:00-5:00

CANINE REHABILITATN V C S 441 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN VET MED  
9232005 MTWRF 8:00-5:00

CLINICAL NEUROLOGY V C S 446 2 CREDITS  
Prereq: 4TH-YEAR CLASSIFICATION IN VET MED  
5112005 MTWRF 8:00-5:00

CLINICL DERMATOLOGY V C S 452 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN VETERINARY  
MEDICINE. MUST HAVE INSTRUCTOR PERMISSION TO REPEAT  
THIS COURSE.  
Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
1931005 MTWRF 8:00-5:00

SMALL ANIMAL MED I V C S 453 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
6889005 MTWRF 8:00-5:00

SMALL ANIMAL MED II V C S 454 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
6890005 MTWRF 8:00-5:00

SM AN SOFT TISS SUR V C S 455 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
6891005 MTWRF 8:00-5:00

SM AN ORTHOPEID SURG V C S 456 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
6892005 MTWRF 8:00-5:00

EQUINE MEDICINE V C S 457 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
6893005 MTWRF 8:00-5:00

EQUINE SURGERY V C S 458 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
6894005 MTWRF 8:00-5:00

SM AN OVERPOP OMAHA V C S 459A 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
4050005 MTWRF 8:00-5:00  
Note: Field trips & travel fee \$200.00

SM AN OVERPOP D.M. V C S 459B 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
4107010 MTWRF 8:00-5:00  
Note: Field trips & travel fee \$200.00

## VETERINARY CLINICAL SCIENCES (CONTINUED)

SM AN OVERPOPU K.C. V C S 459C 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
4313015 ARRANGED  
Note: Field trips & travel fee \$200.00

RADIOLOGY V C S 460 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
6896005 Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
MTWRFS 8:00-5:00

PRIMARY CARE V C S 463 2 CREDITS  
Prereq: FOURTH YEAR CLASSIFICATION IN VET MED  
2322005 Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
MTWRFS 8:00-5:00

EQUINE FIELD SERVIC V C S 464 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
4247005 Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
MTWRF 8:00-5:00

FARRIER V C S 465 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED,  
457, 458  
7756005 Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
MTWRF 8:00-5:00

VET ANESTHESIOLOGY V C S 466 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
6898005 Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
MTWRFS 8:00-5:00

INTENSIVE CARE V C S 468 4 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
6900005 Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
ARRANGED

OPHTHALMOLOGY V C S 469 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
6901005 Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
MTWRFS 8:00-5:00

RADIOLOGY V C S 470 VAR. CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED,  
460 RECOMMENDED  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CMPARTV ANIM REPROD V C S 471C 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
Note: Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

EQUINE REPRODUCTION V C S 471E VAR. CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN VET MED  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

FOOD ANIM REPRODCTN V C S 471F VAR. CREDITS  
Note: COURSE ONLY OFFERED FOR 2 CREDITS SUMMER 2013  
Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SML ANIM REPRODUCTN V C S 471S VAR. CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN VET MED  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SML ANIM SURG ORTHO V C S 473O 1 CREDIT  
Note: Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SML AN SURG SOF TIS V C S 473S 1 CREDIT  
Note: Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

VET CARDIOLGY ROTAT V C S 475 1- 2 CREDITS  
Prereq: FOURTH YEAR CLASSIFICATION IN V MED  
9128005 Note: Department permission required.  
MTWRFS 8:00-5:00

EQUINE ANESTHESLOGY V C S 476E 1- 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
Note: COURSE ONLY OFFERED FOR 2 CREDITS SUMMER 2013  
Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## VETERINARY CLINICAL SCIENCES (CONTINUED)

SM ANIML ANESTHESIO V C S 476S 1- 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
Note: COURSE ONLY OFFERED FOR 2 CREDITS SUMMER 2013  
Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INTENSIVE CARE V C S 478 VAR. CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
Note: COURSE ONLY OFFERED FOR 1-2 CREDITS SUMMER 2013  
Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INDEPENDENT STUDY V C S 490 VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

INT'L PRECEPTORSHIP V C S 496 1-12 CREDITS  
Prereq: SECOND-YEAR CLASSIFICATION IN VET MED  
6094005 ARRANGED  
6094800 AR ARRANGED DAVIDSON K  
MEETS: MAY 30-JUNE 9  
Note: SEC AR TAUGHT IN ARGENTINA. TOPIC: CATTLE  
PRODUCTION IN ARGINTINA. STUDY AROAD SUMMER 2013.  
OFFERED FOR 3 CREDITS.  
Study Abroad Administrative Fee Applies

SPL TOPICS MEDICINE V C S 590A 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPCL TOPICS SURGERY V C S 590B 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP THERIOGENOL V C S 590C 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOPIC RADIOLOGY V C S 590D 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP ANESTHESIOLOG V C S 590E 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP OPHTHALMLGY V C S 590F 1- 3 CREDITS  
Prereq: PERMISSION OF INSTRUCTOR  
Note: Instructor permission required.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT V C S 599 VAR. CREDITS  
Prereq: ENROLLMENT IN NONTHESIS MASTERS PROGRAM  
6920005 ARRANGED  
MEETS: MAY 20-AUG 9

RESEARCH MEDICINE V C S 699A VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RESEARCH SURGERY V C S 699B VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH THERIOGENOLGY V C S 699C VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSRCH ANESTHESIOLOGY V C S 699E VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

RSEARCH OPHTHALMLGY V C S 699F VAR. CREDITS  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**VETERINARY MICROBIOLOGY & PREV MED**

PUBLIC HEALTH LAB V MPM 486 2 CREDITS  
Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
6951005 MTWRF 8:00-12:00  
MTWRF 2:00-5:00

INDEPENDENT STUDY V MPM 490 VAR. CREDITS  
Prereq: PERMISSION OF INSTRUCTOR AND DEPT CHAIR  
Note: COURSE ONLY OFFERED FOR 1-5 CREDITS SUMMER 2013  
Permission of instructor required. Process  
approved add slip in 2270A Vet Med.  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

ZOO PRECEPTORSHIP V MPM 494 1- 8 CREDITS  
Prereq: FOURTH YEAR CLASSIFICATION IN V MED  
\*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## VETERINARY MICROBIOLOGY &amp; PREV MED (CONTINUED)

INT'L PRECEPTORSHIP V MPM 496 1-12 CREDITS  
 Prereq: SECOND-YEAR CLASSIFICATION IN VET MED  
 4332800 TH ARRANGED PLATT K  
 MEETS: MAY 19-JUNE 2  
 Note: SEC TH TAUGHT IN THAILAND. THAILAND  
 VETERINARY STUDY ABROAD. OFFERED FOR 3 CREDITS  
 SUMMER 2013  
 4332805 ZA ARRANGED THOEN C  
 MEETS: JUNE 6-AUG 2  
 Note: SEC ZA TAUGHT IN SOUTH AFRICA. WILDLIFE  
 IMMOBILIZATION & CONSERVATION IN SOUTH AFRICA.  
 STUDY ABROAD SUMMER 2013 OFFERED FOR 3 CREDITS.  
 Study Abroad Administrative Fee Applies

INTRO DNA TECHNIQS V MPM 542A 1 CREDIT  
 Prereq: GRADUATE CLASSIFICATION  
 Satisfactory-Fail Only.  
 4278005 1 MTRF 1:00-2:00  
 MTRF 2:00-4:00  
 MEETS: JUNE 17-JULY 2

INTR PROTEIN TECHNQ V MPM 542B 1 CREDIT  
 Prereq: GRADUATE CLASSIFICATION  
 Satisfactory-Fail Only.  
 4372005 1 MTRF 1:00-2:00  
 MTRF 2:00-4:00  
 MEETS: JULY 15-30

SPECIAL TOPICS V MPM 590 1- 5 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CREATIVE COMPONENT V MPM 599 VAR. CREDITS  
 Prereq: NONTHESIS M.S. OPTION ONLY  
 7307005 ARRANGED  
 MEETS: MAY 20-AUG 9

RESEARCH V MPM 699 VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**VETERINARY PATHOLOGY**

NECROPSY LAB PRACTM V PTH 456 1 CREDIT  
 Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
 Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
 7007005 MTWRF 1:10-5:00 WHITLEY E  
 S 10:00-11:50 WHITLEY E  
 Note: Materials and professional support fee \$150.00

CLIN PATH LAB PRACT V PTH 457 1 CREDIT  
 Prereq: FOURTH-YEAR CLASSIFICATION IN V MED  
 Note: COURSE RESTRICTED TO 4TH YEAR VET MED STUDENTS  
 7008005 MTWRF 8:00-11:50 FLAHERTY H

INDEPENDENT STUDY V PTH 490 VAR. CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR & DEPT CHAIR  
 Note: Permission of instructor required. Process  
 approved add slip in 2270A Vet Med.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

DIAGN PARASITOL LAB V PTH 548 1- 3 CREDITS  
 Prereq: 376 OR 576  
 9668005 ARRANGED JARVINEN J  
 MEETS: MAY 20-AUG 9

CLIN PATHOLOGY LAB V PTH 549 1 CREDIT  
 Prereq: 457, PERMISSION OF INSTRUCTOR  
 Satisfactory-Fail Only.  
 7037005 ARRANGED FLAHERTY H  
 MEETS: MAY 20-AUG 9  
 Note: Instructor permission required.

SURGICAL PATHOL LAB V PTH 550 1- 3 CREDITS  
 Prereq: 570 OR 571, PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required.  
 Satisfactory-Fail Only.  
 7479005 ARRANGED HAYNES J  
 MEETS: MAY 20-AUG 9

POSTMORT PATHOL LAB V PTH 551 1- 3 CREDITS  
 Prereq: 542, PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required.  
 Satisfactory-Fail Only.  
 7038005 MTWRF 1:10-5:00 FALES-WILLIAMS A  
 S 10:00-11:50 FALES-WILLIAMS A  
 MEETS: MAY 20-AUG 9

SPL TOPC VET PATHOL V PTH 590A 1- 4 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPL TOP VET PARASIT V PTH 590B 1- 4 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

## VETERINARY PATHOLOGY (CONTINUED)

SP TOP VET CLIN PTH V PTH 590D 1- 4 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SPECIAL TOPICS V PTH 590E 1- 4 CREDITS  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV CMP VET PATHOL V PTH 599A VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV CMP VET PARASI V PTH 599B VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CRTV CMP V CLIN PTH V PTH 599D VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

CURR TOPICS SEMINAR V PTH 605 1 CREDIT  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

DIAG INTERPR V PATH V PTH 606A R CREDIT  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required.  
 7029005 ARRANGED ACKERMANN M  
 MEETS: MAY 20-AUG 9

DIAG INTERP V PARAS V PTH 606B R CREDIT  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required.  
 7030005 ARRANGED JARVINEN J  
 MEETS: MAY 20-AUG 9

DIAG INTERP VET TOX V PTH 606C R CREDIT  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required.  
 5787005 ARRANGED  
 MEETS: MAY 20-AUG 9

DIAG INTERP CLINPTH V PTH 606D R CREDIT  
 Prereq: PERMISSION OF INSTRUCTOR  
 Note: Instructor permission required.  
 9694005 ARRANGED HOSTETTER S  
 MEETS: MAY 20-AUG 9

VET PATHOLOGY RSRCH V PTH 699A VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

VET PARASITOLGY RES V PTH 699B VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

VET CLIN PATH RSRCH V PTH 699D VAR. CREDITS  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

**WOMEN'S STUDIES**

GENDER & COMMUNICTN W S 323 3 CREDITS  
 Note: Meets U.S. diversity reqmt  
 Available for nonmajor graduate credit  
 3533005 A MTWRF 12:10-2:20  
 MEETS: MAY 20-JUNE 14  
 3533010 B MTWRF 9:50-12:00  
 MEETS: JUNE 17-JULY 12

SEX&GENDER IN SOCIE W S 327 3 CREDITS  
 Prereq: SOC 130 OR 134  
 Note: Meets U.S. diversity reqmt  
 7061005 A MTWRF 9:50-11:50  
 MEETS: MAY 20-JUNE 14  
 7061010 B MTWRF 9:50-11:50  
 MEETS: JUNE 17-JULY 12

PSYCHOLOGY OF WOMEN W S 346 3 CREDITS  
 Prereq: 2 COURSES IN PSYCHOLOGY INCLUDING PSYCH  
 101  
 Note: Meets U.S. diversity reqmt  
 7064005 MTWRF 12:10-1:10  
 MEETS: MAY 20-JULY 12

INDEPENDENT STUDY W S 490 1- 3 CREDITS  
 Prereq: ANY TWO COURSES IN W S  
 Note: NO MORE THAN 6 CREDITS OF W S 490 MAY BE  
 APPLIED TOWARD REQUIREMENTS FOR THE W S MAJOR  
 Department permission required.  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

SENIOR INTERNSHIP W S 491 3 CREDITS  
 Prereq: SENIOR CLASSIFICATION  
 4097005 ARRANGED  
 MEETS: MAY 20-AUG 9  
 Note: Department permission required.

SENIOR THESIS W S 499 3 CREDITS  
 Prereq: SENIOR CLASSIFICATION  
 \*\*\*\*\* SEE DEPT FOR REFERENCE NUMBERS

WOMEN'S STUDIES

(CONTINUED)

SPECIAL TOPICS            W S    590    VAR.    CREDITS  
Prereq: PERMISN OF WOMEN'S STUDIES PROG DIRECTOR  
Note: Department permission required 1st week.  
\*\*\*\*\*            SEE DEPT FOR REFERENCE NUMBERS