AgEdS Student Handbook
And Reference Guide

Course Packet for all sections of:
AgEdS 110A. Orientation
AgEdS 110B. Orientation

Department of
Agricultural Education and Studies

IOWA STATE UNIVERSITY
College of Agriculture and Life Sciences

Updated July 2014
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INTRODUCTION

It is a pleasure to welcome you to Iowa State University. You have made two excellent choices: 1) deciding to attend Iowa State University; and 2) deciding to major in Agricultural Studies or Agriculture and Life Sciences Education. Iowa State University is recognized the world over and both the Agriculture and Life Sciences Education and Agricultural Studies curricula have been determined to be “central to Iowa State's mission.”

The purpose of this handbook is to familiarize you with the Agricultural Education and Studies Department and your major. It is an invaluable resource and reference to be utilized over the next four years as you earn your degree. In addition, the handbook will be a guide to help you plan your program of study, explain procedures and requirements for a B.S. degree in your major, and provide a means for keeping an up-to-date record of your personal program.

The faculty and staff in the Agricultural Education and Studies Department are eager to help you make the most of your college education. We are committed to your development, both personally and academically. A college education involves much more than simply taking classes. We are dedicated to do all we can to make your college experience a meaningful and truly educational one for you. We take pride in the positive reputation we have developed across campus as a department that has outstanding academic advising.

The Department of Agricultural Education and Studies (AgEdS) is made up of approximately 19 faculty and staff members. A faculty and staff directory can be found on page 4. AgEdS has three functions: 1) undergraduate education; 2) graduate education; and 3) research and extension. Most faculty have a combination of responsibilities in each of these areas. The administrative hub for the department is located in 201 Curtiss. The other offices associated with the department include 206 and 217 Curtiss.

Most of the space on the second floor of Curtiss Hall is associated with the Agricultural Education and Studies Department. A room of special note to students is the Computer Lab in 206F Curtiss. The computer lab is open during regular office hours (8:00 a.m. to 5:00 p.m.). For more information, the computer and printer use policies are posted in the lab.

The purpose of the Agricultural Education and Studies Department is to help students develop the knowledge and skills required of them to enter a variety of professional agricultural careers. Chief among these agricultural careers for students majoring in Agriculture and Life Sciences Education is that of teaching agricultural science and technology in the high schools of Iowa and other states. About 50 percent of the graduates each year enter the profession of teaching at the secondary school level. Other Agricultural Education graduates enter positions in communications, extension, sales and service in agribusiness, farming, international service or governmental service.

Students choosing the communication option of the agriculture and life sciences education degree also find careers in a variety of areas. Some students are employed in advertising and marketing agencies. Others choose to move into careers related to newspapers, magazines, and journals that focus on the agricultural sectors. Some students will also obtain careers within the agricultural industry that focus on
communication, public relations, and human resources. Many times these careers are found in local, state, and national producer organizations.

Because of the diversity of the major, career areas for students with a degree in Agricultural Studies vary considerably. They include production agriculture, management, agribusiness and government. About 30 percent of the graduates each year enter production agriculture and another 60 percent enter agribusiness careers. Other graduates continue their education by attending veterinary medicine or graduate school. Graduates have also entered positions in research, soil conservation, agricultural credit, and various other areas.

If you are like many College of Agriculture and Life Sciences students, you may be unsure of what you would like to do after you graduate. You should not be overly concerned about feeling this way. If you have an interest in agriculture, pursuing a degree in either Agriculture and Life Sciences Education or Agricultural Studies will provide many career opportunities for you.
AGRICULTURAL EDUCATION AND STUDIES
FACULTY AND STAFF

The faculty and staff in Agricultural Education and Studies come from a variety of agricultural backgrounds and have had a wide array of experiences. These backgrounds and experiences will provide you with unique opportunities that will assist you in your career preparation. The responsibilities of the faculty vary, but most are involved with teaching, advising, conducting research, serving on department, college and university committees, and providing services to state, public, and private agencies and companies.

As an undergraduate, you will have the opportunity to work with most of the faculty and staff. One faculty or staff member has been asked to serve as your academic adviser throughout your college experience. Faculty and staff members consider advising to be very important. They enjoy helping you. You can be sure that your adviser will do all he/she can to assist you in reaching your educational and career goals. We are pleased you have chosen ISU and the Department of Agricultural Education and Studies. The faculty and staff in the Department of Agricultural Education and Studies hope you have an enjoyable experience while here and we will do whatever is possible to assist you in accomplishing your goals. The Agricultural Education and Studies faculty and staff want to establish a relationship with you that will last a lifetime.
<table>
<thead>
<tr>
<th>Faculty</th>
<th>Title</th>
<th>Office</th>
<th>Phone</th>
<th>E-Mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Ryan Anderson</td>
<td>Assistant Professor</td>
<td>206 Curtiss</td>
<td>294-4139</td>
<td><a href="mailto:randrsn@iastate.edu">randrsn@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. David Acker</td>
<td>Associate Dean for Academic &amp; Global Programs</td>
<td>134 Curtiss</td>
<td>294-6614</td>
<td><a href="mailto:dacker@iastate.edu">dacker@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. Sorrel Brown</td>
<td>Lecturer</td>
<td>217 Curtiss</td>
<td>294-8802</td>
<td><a href="mailto:sorrel@iastate.edu">sorrel@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. Theressa Cooper</td>
<td>Assistant Dean for Diversity</td>
<td>139 Curtiss</td>
<td>294-8574</td>
<td><a href="mailto:tncooper@iastate.edu">tncooper@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. Awoke Dollisso</td>
<td>Senior Lecturer</td>
<td>201 Curtiss</td>
<td>294-0898</td>
<td><a href="mailto:dollisso@iastate.edu">dollisso@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. Nancy Grudens-Schuck</td>
<td>Associate Professor</td>
<td>217 Curtiss</td>
<td>294-0894</td>
<td><a href="mailto:ngs@iastate.edu">ngs@iastate.edu</a></td>
</tr>
<tr>
<td>Ms. Virginia Hansen</td>
<td>Lecturer</td>
<td>206 Curtiss</td>
<td>TBA</td>
<td>TBA</td>
</tr>
<tr>
<td>Dr. Robert Martin</td>
<td>Professor</td>
<td>201 Curtiss</td>
<td>294-0896</td>
<td><a href="mailto:drmartin@iastate.edu">drmartin@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. Roger McEowen</td>
<td>Associate Professor</td>
<td>Center for Ag Law &amp; Taxation</td>
<td>294-4076</td>
<td><a href="mailto:mceowen@iastate.edu">mceowen@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. Greg Miller</td>
<td>Professor</td>
<td>217 Curtiss</td>
<td>294-2583</td>
<td><a href="mailto:gsmiller@iastate.edu">gsmiller@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. W. Wade Miller</td>
<td>Professor &amp; Interim Head</td>
<td>201 Curtiss</td>
<td>294-0895</td>
<td><a href="mailto:wwmiller@iastate.edu">wwmiller@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. Tom Paulsen</td>
<td>Assistant Professor</td>
<td>217 Curtiss</td>
<td>294-0047</td>
<td><a href="mailto:tpaulsen@iastate.edu">tpaulsen@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. Tom Polito</td>
<td>Assistant Professor</td>
<td>020 Curtiss</td>
<td>294-2766</td>
<td><a href="mailto:tpolito@iastate.edu">tpolito@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. Mike Retallick</td>
<td>Associate Professor</td>
<td>206 Curtiss</td>
<td>294-4810</td>
<td><a href="mailto:msr@iastate.edu">msr@iastate.edu</a></td>
</tr>
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<table>
<thead>
<tr>
<th>Staff</th>
<th>Title</th>
<th>Office</th>
<th>Phone</th>
<th>E-Mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ben Chamberlain</td>
<td>Academic Adviser</td>
<td>206 Curtiss</td>
<td>294-4655</td>
<td><a href="mailto:bchamber@iastate.edu">bchamber@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. Beth Foreman</td>
<td>Program Coordinator</td>
<td>020 Curtiss</td>
<td>294-4548</td>
<td><a href="mailto:bforeman@iastate.edu">bforeman@iastate.edu</a></td>
</tr>
<tr>
<td>Sara Lundvall</td>
<td>Administrative Spec.</td>
<td>201 Curtiss</td>
<td>294-1106</td>
<td><a href="mailto:lundvall@iastate.edu">lundvall@iastate.edu</a></td>
</tr>
<tr>
<td>Wendy Ortmann</td>
<td>Secretary</td>
<td>004 Curtiss</td>
<td>294-0045</td>
<td><a href="mailto:wortmann@iastate.edu">wortmann@iastate.edu</a></td>
</tr>
<tr>
<td>Dr. Gaylan Scofield</td>
<td>Tech. Coordinator</td>
<td>004 Curtiss</td>
<td>294-0045</td>
<td><a href="mailto:ggs@iastate.edu">ggs@iastate.edu</a></td>
</tr>
<tr>
<td>Greg Vogel</td>
<td>Ag 450 Farm Mgr.</td>
<td>450 Farm</td>
<td>292-0742</td>
<td><a href="mailto:gvogel@iastate.edu">gvogel@iastate.edu</a></td>
</tr>
</tbody>
</table>
IOWA STATE UNIVERSITY CALENDAR 2014-2015

All academic calendars can be found at http://www.iastate.edu/~registrar/calendar/.

Fall Semester 2014

Classwork begins
University holiday, offices closed
Thanksgiving break, classes recessed
University holidays, offices closed
Classes resume
Final Exams
Undergraduate Commencement
University holidays, offices closed
University holiday, offices closed

Monday, August 25
Monday, September 1
November 24 through November 28
November 27 and 28
Monday, December 1
December 15 through 19
Saturday, December 20
December 25 and 26
January 1

Spring Semester 2015

Classwork begins
University holiday, offices closed
Spring break, classes recessed
Final Exams
Undergraduate Commencement

Monday, January 12
Monday, January 19
March 16 through March 20
May 4 through May 8
Saturday, May 9

Summer Session 2015

Classwork begins Session I
University holiday, offices closed
Classwork begins Session II
University holiday, offices closed
Session I ends
Session II ends

Monday, May 18
Monday, May 25
Monday, June 15
Friday, July 3
Friday, July 10
Friday, August 7
Vision for Academic Advising
Academic advising in the Department of Agricultural Education and Studies is an integral component of the teaching and learning process which enhances the student’s connection to the university and college via a balanced use of resources, personal interaction, and commitment to student success using a holistic learner-centered approach.

Mission of Academic Advising
To help students achieve their potential.

Values Related to Academic Advising
In the Department of Agricultural Education and Studies, we believe…
  … Teaching and advising are central to the mission of AgEdS.
  … The department is a community made up of all students, faculty, and staff.
  … The department, in addition to the adviser, is responsible for achieving academic advising outcomes.
  … Academic advising is a collaborative activity based upon a shared responsibility among the student, adviser, department, and resource centers including academic affairs, student affairs, and support services.

The role of the adviser and the academic advising relationship is to assist students in:
  ➢ Developing suitable educational plans
  ➢ Clarifying career and life goals
  ➢ Evaluating students’ progress toward their degrees
  ➢ Developing decision-making skills
  ➢ Becoming independent learners

To fulfill their role, advisers are expected to:
  • Be available with reasonable office hours
  • Respond to student questions, concerns or problems in a timely manner
  • Listen
  • Process course substitutions and other advising related paperwork in a timely manner
  • Help troubleshoot problems for their advisees or refer them to the appropriate people who can
  • Be knowledgeable in the following areas
    o Degree and program requirements
    o Campus student support services
    o Indicators of student potential and success
    o University deadlines
    o Career options and expectations
  • Be available to serve as a mentor to advisees
As part of the adviser/advisee relationship, students are expected to:

- Communicate with their advisers
- Be respectful of their advisers’ time
- Ultimately make their own decisions after consulting with their advisers
- Follow through on advisers’ recommendations
- Take personal responsibility for their education, experiences and personal development
- Develop a graduation plan
- Realize that some questions and problems do not elicit immediate responses or solutions.
- Be aware of the registration advising period, registration dates, and add/drop deadlines
- Know their degree and program requirements
- Be open to recommendations concerning schoolwork, study habits and academic progress
- Listen
- Know how to correctly make appointments with their advisers
- Follow through with appointments
- Be prepared for their meetings with their advisers and ask questions
THE ROLE OF ACADEMIC ADVISING

The role of your academic adviser is to assist you in any way possible. This includes being available for consultation and assisting you in decisions regarding curriculum requirements and selection of courses. Your adviser serves as an informed source on course selection, registration, and course change procedures. He/she should also be able to direct you to appropriate sources of assistance if the matter is of a personal nature. **Remember, however, you are ultimately responsible** for all decisions made and for the appropriateness of your class schedule. The adviser is to be used as a resource and consultant.

Your adviser cares about you and your academic progress. Keep in regular contact with your adviser; help him/her to get to know you. The better your adviser knows you, your background and goals, the better he/she will be able to help you in reaching your goals.

You are welcome to see your adviser anytime during his/her office hours, but to ensure that he/she doesn't already have a prior commitment, you are encouraged to schedule an appointment with him/her through the office secretary. Scheduling an appointment with your adviser is especially important during the advising period prior to registration since all students will be meeting with their advisers within a short period of time. If for some reason you are unable to see your adviser and you have a question or problem, do not hesitate to ask to see another adviser.

Ryan Anderson, the Director of Undergraduate Programs, assigns advisers. If you would like to change advisers, contact Dr. Anderson.

Your Academic Adviser:

Name _______________________

Office _______________________

To schedule an appointment, you may call the departmental office where your adviser is located:

AgEdS Undergraduate Office - 206 Curtiss - 294-5872
PLANNING YOUR PROGRAM OF STUDY

Your college experience can be one of the most exciting and cherished times of your life. It is a time to:

- Prepare for your future
- Develop lasting friendships
- Learn through both formal and informal means
- Live in and become part of a university community
- Grow as an individual
- Broaden your perspective

To realize and take advantage of these opportunities, you will need to plan your college experiences carefully. You need to analyze your interests, build upon your strengths, and recognize and improve upon your weaknesses. The first step in planning your program is to analyze where you are – in other words, take a personal inventory. *A Personal Inventory and Plan form is available in the appendix.* What past experiences have you gained that will help you achieve your career and personal goals? For example, have you:

- Had farm and/or agribusiness experience?
- Taken agriculture education courses?
- Participated in 4-H and/or FFA?
- Served as an officer in a school and/or community organization?

These are just a few examples of experiences that would be valuable to you as you prepare for a career in agriculture. There are others that would be equally beneficial. The experiences you have had represent the "assets" in your personal inventory. If you have not had these or similar experiences, then start identifying ways in which you can gain comparable experiences at Iowa State. You might seek part-time employment on one of the university farms or perhaps work full-time in an ag-related position during the summer.

Finally, determine where you want to go or where you are headed and how you can make the most out of your college experience. Share your Personal Inventory and Plan with your adviser. Seek his/her assistance in identifying ways and means of improving your program to help you continue to build upon your strengths, improve upon your weaknesses, identify your interests, and focus your career goals.

This is one of the major purposes of your adviser. Utilize him/her! The better your adviser knows you and your educational and career goals, the better he/she will be able to suggest appropriate course options to you. To help your adviser understand your goals, *complete the "Agricultural Education and Studies Student Survey" form found in the appendix with your adviser.* This form will be kept by your adviser in your student file.

Look at the required courses and determine how they will fit into your program. Select courses that will be used as restricted or free electives carefully. Read course descriptions in the "Iowa State University Catalog" and discuss the courses with others before building them into your program.
Once you have identified the courses you would like to take, your adviser will provide valuable assistance to you in planning your course work from next semester through your graduation semester. *Complete the "Course Planning Sheet" found in the appendix with your adviser.*

**COLLEGE --- MORE THAN JUST CLASSES**

Some students simply "blow in and blow out" of college without taking advantage of the many opportunities that are available to them. There are a multitude of organizations and activities on campus in which you can become involved. The following are some of the opportunities that await you: residence hall activities, intramurals, campus organizations and committees, cultural events, athletic activities, concerts, and field trips. Through your association with others in these activities, you will grow and broaden your perspective.

You are especially encouraged to become involved in your curriculum's club. The Agriculture and Life Science Education curriculum's club is the Ag Education Club, and the Agricultural Studies curriculum's club is called the Farm Operation Club. Many students majoring in the communication option join the Agricultural Communicators of Tomorrow (ACT) Club. Another option for those students studying in the communications option of Ag Ed is participation in NAMA (National Agri-Marketing Association). Skills developed through that organization will go a long way in obtaining a communications-related career. These clubs meet once a month and have an active agenda of guest speakers, field trips, and social activities. Stop in and see the faculty advisers about becoming a club member. Ask your adviser to identify other students in these clubs.

There are plenty of opportunities to have an active part in any club by serving on a committee or serving as a club officer. When you become involved in a club, you further sharpen your leadership skills as well as have the opportunity to get to know others who are interested in agriculture. Don't let leadership opportunities pass you by. Employers and scholarship selection committees want to know the activities in which you've been involved. Your active involvement can bring many rewards, both while in college and in your future.

To most employers, a college education is much more than just the course work. As a result, they will look for much more than just the classes you have taken. For this reason, please choose to get involved. Besides the departmental clubs already mentioned, there are other clubs and organizations within the College of Agriculture and Life Sciences as well as many others throughout the University. Also, please consider an international experience as it can provide an entirely different perspective on your experiences and attitudes toward American agriculture. For more information, contact the College of Agriculture and Life Sciences Study Abroad office located in 111 Curtiss Hall.

Farm Op Club Adviser:  Mr. Ben Chamberlain  
Ag Ed Club Adviser:  Dr. Ryan Anderson  
ACT Club Adviser:  Dr. Robert Martin, Dr. Awoke Dollisso and Ms. Virginia Hansen
MINORS

With the free electives available in your major, it is relatively easy to obtain a minor in a specific area. You may elect to meet the requirements of any undergraduate minor offered in the University. All minors require at least 15 credits including at least 6 credits taken at Iowa State University in courses numbered 300 or above. The minor must include at least 9 credits that are not used to meet any of the other requirements in your major.

The curricula that offer minors in the College of Agriculture and Life Sciences are as follows:

- Agricultural Biochemistry
- Agricultural Education & Studies
- Agricultural Systems Technology
- Agronomy
- Animal Ecology
- Animal Science
- Biology
- Emerging Global Diseases*
- Entomology
- Entrepreneurial Studies*
- Environmental Science

- Environmental Studies
- Food Safety*
- Food Science
- Forestry
- Genetics
- Horticulture
- Industrial Technology
- International Agriculture
- Microbiology
- Nutrition

* The College of Agriculture and Life Sciences participates in these interdepartmental minors.

If you are interested in a minor, you should talk with your academic adviser and the department in which the minor is housed to obtain details of the requirements for a minor. The department of the minor is responsible for the minor.

To formally add a minor and have it noted on your ISU transcript, you must complete a "Request for Minor" form. This form must be: 1) signed by your academic adviser and the department offering the minor; and 2) completed one semester prior to graduation. The catalog for the minor may not be an earlier catalog than the catalog for your major.
SELECTED MINORS

Ag Education & Studies
Agricultural Business
Ag Systems Technology
Agronomy
Animal Science
Entomology
Entrepreneurial Studies
General Business
Horticulture
International Agriculture

There are several minors within the College of Agriculture and Life Sciences for students in the department. The following are the detailed requirements. For other minors, please refer to the ISU catalog or departmental web page, or contact an adviser or faculty member within the department of the minor.

Ag Education & Studies*

Minimum of 15 credits
Minimum of 2 courses at 400 level
Following courses can be taken for a minor:

AgEdS 211 (1 cr.) Early Field Based Experience
AgEdS 310 (2 cr.) Foundations of Agricultural Education Programs
AgEdS 311 (3 cr.) Presentation and Sales Strategies for Agricultural Audiences
AgEdS 315 (3 cr.) Personal and Professional Leadership in Agriculture
AgEdS 402 (3 cr.) Methods of Teaching in Agricultural Sciences/Agribusiness
AgEdS 412 (2-6 cr.) Internship in Agricultural Education and Studies
OR
AgEdS 418 (2-8 cr.) Supervised Extension Experience
AgEdS 414 (2 cr.) Developing Agricultural Education Programs in Non-Formal Settings
AgEdS 450 (3 cr.) Farm Management and Operation
AgEdS 490 (1-3 cr.) Independent Study in Agricultural Education and Studies
AgEdS 496 (1-3 cr.) Agricultural Travel Course
AgEdS 499 Undergraduate Research

* A minor in Agricultural Education and Studies is available to students whose primary major is outside the Department of Agricultural Education and Studies.
Agricultural Business Minor:

A minor in Agricultural Business requires 15 credits. The specific course requirements for the minor are as follows:

- Econ 101. Principles of Microeconomics. (3 credits)
- Econ 230. Farm Business Management. (3 credits)
- Econ 235. Introduction to Agricultural Markets. (3 credits)
- Econ 301. Intermediate Microeconomics. (3 credits)
- Three credits from the following selected list:
  - Econ 332. Cooperatives.
  - Econ 333. Advanced Farm Business Management.
  - Econ 334. Entrepreneurship in Agriculture.
  - Econ 336. Agricultural Selling.
  - Econ 337. Agricultural Marketing.
  - Econ 353. Money, Banking, and Financial Institutions.
  - Econ 364. Rural Appraisal
  - Econ 376. Rural, Urban and Regional Economics.
  - Econ 380. Environmental and Resource Economics.
  - Econ 416. Industrial Organization.
  - Econ 431. Managerial Economics.
  - Econ 437. Commodity Marketing and Risk Management.
  - Econ 460. Agricultural, Food, and Trade Policy.
  - Econ 466. Agricultural Finance.
  - Econ 480. Intermediate Environmental and Resource Economics.

Following Iowa State University guidelines for undergraduate minors, the following are also required:

- At least 6 of the credits for the minor must be taken at Iowa State University in courses numbered 300 or above.
- At least 9 of the credits for the minor are not used to meet any other department, college, or university requirement.
- None of the courses for the minor can be taken on a pass-not pass basis.

Prerequisites for students interested in an Ag Business Minor:

Students interested in an Ag Business minor must also take Acct 284 (“Financial Accounting”) as a prerequisite for the required course Econ 230 (“Farm Business Management”), and Math 160 (“Survey of Calculus”) or 165 (“Calculus I”) as a prerequisite for the required course Econ 301 (“Intermediate Microeconomics”).

Agricultural Systems Technology Minor

The Department of Agricultural and Biosystems Engineering offers a minor in agricultural systems technology which may be earned by completing a minimum of 15 credits of technology systems management courses, which includes:

- TSM 115, Solving Technology Problems
- TSM 210, Fundamentals of Technology,
- 9 credits from departmentally approved list.
Agronomy Minor:

The Agronomy Department offers a minor in Agronomy that may be earned by credit in these Agronomy courses: AGRON 114, 154, 212, 354, and 6 credits from approved Agronomy courses, 3 of which must be numbered 300 or higher. Nine credits must be from Iowa State University Agronomy courses. Courses approved for minor credit are listed below.

<table>
<thead>
<tr>
<th>COURSES REQUIRED FOR A MINOR</th>
<th>Credit</th>
<th>Term</th>
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</thead>
<tbody>
<tr>
<td>AGRON 114: Principles of Agronomy</td>
<td>3(2-3 to 4)</td>
<td>F, S</td>
</tr>
<tr>
<td>AGRON 154: Fundamentals of Soil Science*</td>
<td>3(2-2 to 4)</td>
<td>F, S</td>
</tr>
<tr>
<td>AGRON 212: Grain and Forage Crops</td>
<td>4(3-1)</td>
<td>F, S</td>
</tr>
<tr>
<td>AGRON 354: Soils and Plant Growth</td>
<td>3(3-0)</td>
<td>F, S</td>
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<tr>
<th>APPROVED ELECTIVE COURSES FOR MINOR CREDIT (6 credits minimum)</th>
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<tbody>
<tr>
<td><strong>Crop Science</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGRON 316: Crop Structure-Function Relationships</td>
<td>3(3-0)</td>
<td>F, S</td>
</tr>
<tr>
<td>AGRON 317: Principles of Weed Science</td>
<td>3(2-2)</td>
<td>F, S</td>
</tr>
<tr>
<td>AGRON 334: Forage Crop Management</td>
<td>3(3-0)</td>
<td>F, S</td>
</tr>
<tr>
<td>AGRON 338: Seed Science and Technology</td>
<td>3(2-2)</td>
<td>S</td>
</tr>
<tr>
<td>AGRON 351: Turfgrass Establishment and Management</td>
<td>3(3-0)</td>
<td>F</td>
</tr>
<tr>
<td>AGRON 421: Introduction to Plant Breeding</td>
<td>3(3-0)</td>
<td>F, S</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Soil Science</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRON 260: Soils and Environmental Quality</td>
<td>3(2-3)</td>
<td>F, S</td>
</tr>
<tr>
<td>AGRON 354L: Soils and Plant Growth Laboratory</td>
<td>2(0-3)</td>
<td>F, S</td>
</tr>
<tr>
<td>AGRON 356: Soil, Fertilizer, and Water Management</td>
<td>4(3-2)</td>
<td>F</td>
</tr>
<tr>
<td>AGRON 360: Environmental Soil Science Issues</td>
<td>3(2-2)</td>
<td>S</td>
</tr>
<tr>
<td>AGRON 402: Watershed Hydrology</td>
<td>4(3-3)</td>
<td>F, Alt. SS (05)</td>
</tr>
<tr>
<td>AGRON 452: GIS for Geoscientists</td>
<td>4(2-4)</td>
<td>F</td>
</tr>
<tr>
<td>AGRON 459: Environmental Soil and Water Chemistry</td>
<td>3(2-3)</td>
<td>S</td>
</tr>
<tr>
<td>AGRON 485: Soil Microbial Ecology</td>
<td>3(2-3)</td>
<td>F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Agricultural Meteorology</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRON 206: Introduction to Meteorology</td>
<td>3(3-0)</td>
<td>F, S</td>
</tr>
<tr>
<td>AGRON 404: Global Change</td>
<td>3(3-0)</td>
<td>S</td>
</tr>
<tr>
<td>AGRON 406: Climate of the Continents</td>
<td>3(3-0)</td>
<td>F</td>
</tr>
<tr>
<td>AGRON 407: Mesoscale Meteorology</td>
<td>3(3-0)</td>
<td>S</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>General Agronomy Courses</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRON 342: World Food Issues: Past and Present</td>
<td>3(3-0)</td>
<td>F, S, SS</td>
</tr>
<tr>
<td>AGRON 392: Systems Analysis in Crop and Soil Management</td>
<td>3(2-3)</td>
<td>F, S</td>
</tr>
<tr>
<td>AGRON 446: World Agronomic Systems</td>
<td>3(3-0)</td>
<td>Alt. F (05)</td>
</tr>
<tr>
<td>AGRON 450: Issues in Sustainable Agriculture</td>
<td>3(3-0)</td>
<td>F</td>
</tr>
<tr>
<td>AGRON 497: Agroecology Field Course</td>
<td>3</td>
<td>SS</td>
</tr>
</tbody>
</table>

Students minoring in Agronomy can take the following courses: AGRON 331, 370, 490, 491, and 496; but only one (1) credit from these courses can be used in the minor program.
Animal Science Minor:

AnS 101 (2 credits) and 114 (2 credits)
AnS 214 (3 credits) and 214L (1 credit)
At least one course (3 credits) from: AnS 216, 223, 224, 225, 226, 229, 235 or 270
At least two courses (6 credits) from: AnS 319, 331, 352 and 360
At least 9 of the credits required for an AnS minor must be completed at Iowa State. Students should meet with an Animal Science adviser, then complete and file a request for minor form.

International Agriculture Minor:

A minor in international agriculture is available to interested students regardless of their major. Students selecting the minor should have at least minimal familiarity with agriculture and agricultural systems.

Nine (9) credits of the 15-credit total for the minor cannot be used for meeting requirements for a major.
Choose 15 credits from the following categories:

Required Coursework: Agron 342 – World Food Issues (3 credits)
International Agriculture Experience: A Study Abroad experience in international agriculture, a Foreign Language, or any combination of these options (3 – 6 credits)
Optional Coursework: Any selection of courses from an approved list.* (3 – 6 credits)

*Lists available on department, college, or university websites.

For more information about a secondary major or minor in international agriculture, see descriptions in the designated departments or the supervisory committee.

For more information about courses required for either a secondary major or a minor in international agriculture, see descriptions in the designated departments.

Entomology

The department offers a minor in Insect Science that may be earned by completing ENT 370 Insect Biology and 12 credits in courses selected from an approved list supplied by the department. Entomology administers the Emerging Global Diseases minor (see www.ent.iastate.edu/dept/undergrad/egd). Core courses address the biology of emerging disease agents (e.g., protozoa, fungi, microbes, and viruses), the clinical manifestations and epidemiology of emerging diseases, and the impact of those diseases on human interactions and socioeconomics. One course must be taken from each of three core areas:

Micro 310, Medical Microbiology
Biol 353/Micro 353, Introductory Parasitology
Soc 411, Social Change in Developing Countries
Soc 345 Population and Society
FS HN 342, World Food Issues: Past and Present
Ent 374, Insects and Our Health
Ent 574, Medical Entomology
The remainder of the credits (for a total of 15) may be selected from any of the above-listed courses not selected, and from other appropriate courses as approved by Emerging Global Diseases program advisers.

**Entrepreneurial Studies Minor:**
Purpose: The purpose of this undergraduate minor is to educate students at Iowa State University about entrepreneurship - the starting of new business ventures. As a minor, it serves to complement the student's major area of study, whether it’s electrical engineering, horticulture, textiles and clothing, or veterinary medicine, by offering a means of putting theory and science into practice. The goal of Entrepreneurial Studies is to provide the knowledge and skills needed to start and grow new ventures. In addition to feasibility analysis and business planning, the minor deals with the topics of innovation, technology transfer, industry analysis, and competitive strategy. Although the minor introduces some fundamental concepts from accounting, finance, marketing, and management, it does not attempt to substitute for any business courses in these areas. Visit [www.bus.iastate.edu/undergrad/entrepreneurialstudies/requirements.asp](http://www.bus.iastate.edu/undergrad/entrepreneurialstudies/requirements.asp) for more information.

**Adviser:**
Agriculture: Stacey Noe, 30 Curtiss, 294-4945 (snoe@iastate.edu)

College signature must be obtained from Dan Johnson, Interim Associate Dean of Undergraduate Programs, College of Business, 2200 Gerdin Business Bldg.

**Minor Requirements** (15 credit hours): The minor must include at least 9 credits that are not used to meet any other departmental, college, or university requirement. At least six of the credits must be taken at Iowa State University in courses numbered 300 or above. Non-business majors who are not eligible for admission to the College of Business may take only 9 credits of courses numbered 300 or above in the College of Business.

**Required Courses** (6 credit hours):

Mgmt 310 Entrepreneurship and Innovation (3 credits)
Prerequisite: Sophomore Classification
Review of the entrepreneurial process with emphasis on starting a new business. How to analyze opportunities, develop an innovative product, organize, finance, market, launch, and manage a new venture. Deals with the role of the entrepreneur and the importance of the business plan. Speakers and field project.

Mgmt 313 Feasibility Analysis and Business Planning (3 credits)
Prerequisite: Mgmt 310.
Developing an idea for a new business venture, conducting a feasibility study, researching the potential market, analyzing the competition, and writing a formal business plan. Basic business functions are discussed in terms of their application to writing a business plan for an entrepreneurial venture.

Electives (6 credits): Take additional credit hours from the approved list (next page) recommended by Entrepreneurial Studies Supervisory Committee. Check the latest ISU catalog for course descriptions and prerequisites.
ENTREPRENEURIAL STUDIES CHOICE LIST

In consultation with your adviser, please select 6 credits from the following list.

<table>
<thead>
<tr>
<th>Business Planning</th>
<th>Engineering &amp; Technology</th>
<th>Social Entrepreneurship</th>
<th>Training &amp; Communications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advrt 301: Managerial Accounting</td>
<td>IE/TSM 409: Interdisciplinary Systems Effectiveness</td>
<td>H S 310: Community &amp; Public Health</td>
<td></td>
</tr>
<tr>
<td>AgEdS 311: Presentation &amp; Sales Strategies</td>
<td>H S 430: Community Health Program Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AgEdS 315: Personal &amp; Professional Leadership</td>
<td>Pol S 547: Political Leadership &amp; Elites</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Econ 230: Farm Bus. Mgmt</td>
<td>Con E 220: Construction Mgmt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Econ 334: Entrepreneurship in Agri.</td>
<td>Con E 221: Contractor Org. &amp; Mgmt. of Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Econ 336: Agricultural Selling</td>
<td>VDPAM 436: Beef Records Analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ExSp 541: Sport Mkt. &amp; Promo.</td>
<td>VDPAM 471: Principles of Beef Prod.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fin 371: Real Estate Principles</td>
<td>VDPAM 475: Principles of Food Prod.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1.) Internship credit awarded by your college may be included in the minor, provided entrepreneurial business is a focus of the experience.

2.) Some study abroad programs with an Entrepreneurship focus (maximum of 3 credits) may be used as choice course with supervisory committee approval.

3.) For permission to include other courses in the minor, contact the Entrepreneurial Studies minor adviser in your college. The adviser will forward your request to the Supervisory Committee for approval.

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GENERAL BUSINESS MINOR

For more information, visit:

According to the College of Business, in the 2011-2012 catalog, “The College of Business offers a structured minor in general business to students outside the College. The minor requires a minimum of 15 credits and must include at least 6 credits in courses numbered 300 or above taken at Iowa State University. A “C” average or better is required in courses used to satisfy the minor requirements. All prerequisites for minor courses must be met prior to taking the course. All minor courses must be taken for a grade. Students with declared majors have priority over students with declared minors in courses with space constraints.”

Required Courses (6 credits):
Acct 284: Financial Accounting
Acct 285: Managerial Accounting Prereq: Acct 284 OR Acct 215: Legal Environment of Business OR
BusAd 250: Introduction to Business Prereq: BusAd 101, BusAd 150 or ComS 103

Elective Courses (9 credits):
Fin 301: Principles of Finance Prereq: Acct 284, Econ 101, any statistics
Mgmt 370: Management of Organizations Prereq: Econ 101 or Econ 102
Mkt 340: Principles of Marketing Prereq: Econ 101 (maybe concurrent)
SCM 301: Supply Chain Management Prereq: Econ 101 and any statistics OR
MIS 330: Management Information Systems Prereq: Com S 103 or approved substitute

*The College of Business does NOT allow non-business students to take more than three of 300+ level courses. GBUS minor students needing more courses to meet the “9 credit stand alone” rule will need to apply to the Business College for an exception, or should consider taking one additional course of ACCT 285, ACCT 215, or BUSAD 250

Horticulture Minor

The Department of Horticulture offers work for a minor in horticulture that is earned by taking HORT 221 Principles of Horticulture plus 12 additional credits with a maximum of 3 credits at the 200-level and a minimum of 9 credits at the 300-level or above. Visit our departmental website at www.hort.iastate.edu.

Meat Science Minor
AnS 270 (2 credits) and 270L (1 credits)

AnS 360 (3 credits)

AnS 460 (3 credits)

At least one course from: AnS 489 or 490C
At least two courses (3 credits) from: FS HN 311, 403, 405, 406, 410, 412, 419, 420, 471 or Micro 407
CERTIFICATE IN COMMUNITY LEADERSHIP AND PUBLIC SERVICE (CLPS)

More substantial than a minor, the certificate complements your bachelor’s degree—and many courses fulfill both requirements. Core courses cover theories and practice of leadership, communication and organizations. The certificate ends with a capstone course, which can include an internship or a study-abroad experience. Students who earn the certificate demonstrate substantial learning of leadership competencies through education, development and engagement activities.

COMPETENCIES

The Community Leadership Program focuses on developing students’ leadership skills in seven distinct areas:

Catalytic
Identifying, analyzing, and judging complex collective challenges and opportunities, and mobilizing others to remain focused on addressing them.

Contextual
Knowing the cultural, historical, institutional, intellectual and policy context in which one operates.

Interpersonal
Modulating one’s behavior in order to interact effectively in a variety of settings.

Theory
Understanding the fundamental leadership concepts, constructs and research findings.

Organizational
Planning, organizing, coordinating and executing collective action.

Personal
Being self-aware; that is, able to reflect on one’s thinking, feeling, and behavior and knowing one’s strengths and weaknesses, predilections, dominant tendencies and values.

Social Systems
Analyzing dynamic social and political systems.


For questions, please feel free to contact the Scholar in Residence for Leadership Education:
Clinton M. Stephens, Ph.D.
cmsteph@iastate.edu
515-294-8365
DOUBLE MAJOR/DOUBLE DEGREE

Some students are interested in using their free electives to obtain a major in a second curriculum. If you have a particular interest in a specific agricultural area, such as agronomy, you can either double major or seek a double degree. To double major or obtain a double degree, you must complete the requirements in both majors. You designate one major as your primary major, the other major as your secondary major. You are expected to be active in both departments.

A double major is a program for a single B.S. degree in which requirements for two majors have been met. Depending on your choice of a second major and how early you start planning, you may be able to complete a double major without any additional credits above the 128 required of your major.

On the other hand, with a double degree, you would receive two separate bachelor's degrees if the requirements for each major are met and the total number of semester credits is at least 30 more than the requirements of the major requiring the greater number of credits.

To declare a double major or double degree, see your academic adviser to complete the "REQUEST FOR DOUBLE MAJOR/CURRICULUM OR TWO DEGREES" form. As a part of processing the form, you will be assigned an adviser in your second major.

The College of Agriculture offers several secondary majors. Secondary majors must be taken in conjunction with a primary major such as Ag Education or Ag Studies.

Secondary majors offered in the College of Agriculture and Life Sciences include:

- Environmental Studies
- International Agriculture
- Pest Management
KEYS TO DEVELOPING "GOOD" SCHEDULES

AgEdS Course Registration
Once you are a student at Iowa State, each semester at about mid-semester, you will register for the courses you would like to take the following semester. Several keys to developing a good schedule have been listed below for your review.

Tips on Building Schedules
1. Balance your course load:
   ♦ Agricultural courses with non-agricultural courses
   ♦ Lab and lecture
   ♦ Contact hours per day
2. Utilize the "Schedule of Classes" correctly:
   ♦ Use accurate reference numbers
   ♦ Schedule both lab and lecture correctly
   ♦ Take advantage of the Class Schedule Planner: planner.iastate.edu
   ♦ “Schedule of Classes” accessed via the web at classes.iastate.edu
3. Schedule courses with limited sections first
4. Avoid scheduling two classes during the same period (time conflicts)
5. Have at least two courses identified as alternatives before you attempt to register

Tips on Registering for Classes
1. Know your registration start date and time.
   ♦ Available via AccessPlus: “Current Student Info”
2. Set up an appointment and meet with adviser 2-3 days before you are authorized to register.
3. Register as soon after your start date and time as possible. The "early bird" gets the class.
4. Have at least two courses identified as alternatives before you attempt to register.
5. Update your registration worksheet and time grid as your requests are scheduled.

Tools for Developing a Semester Schedule
To prepare and register for classes you will need the following materials:
   ♦ Registration Worksheet. Available from 206 Curtiss.
   ♦ A current "Iowa State University Catalog" (Available via the web at catalog.iastate.edu)
   ♦ A "Schedule of Classes Book" accessed via the web at http://www.iastate.edu/~catalog/schedule/
   ♦ Your most recent Degree Audit sheet (available through AccessPlus) and a curriculum requirement sheet (available from the AgEdS web site or the office secretary of your academic adviser.)
AgEdS ADVISING AND REGISTRATION PROCESS

1. Students will be notified by email about the registration period. Review AccessPlus to determine your own personal registration start date and time. It can be found at the link titled “Current Information.”

2. Students are asked to stop by the office of their adviser to:
   a. Pick up registration worksheet
   b. Set up an appointment with their adviser

3. Identify possible courses to take by consulting the "Iowa State University Bulletin General Catalog" and your major's curriculum requirement sheet.

4. Develop a tentative schedule using the time grid form and the registration worksheet.

5. Consult with your adviser. It is best to schedule an appointment with your adviser during the registration period since all students must meet with their advisers.
   a. Tips for a successful and beneficial advising session:
      - Have a tentative schedule built prior to meeting and list of alternate courses
      - Have list of questions prepared to ask your adviser
      - Inform your adviser of your current progress
      - COMMUNICATE!!

6. Obtain your adviser's approval and your Registration Access Number (RAN). The RAN is part of the information on your Registration Authorization Card.
   a. Review your Registration Authorization Card to find:
      - Your registration access number
      - The first day you may register
      - Registration holds that may delay your registration

7. Enter your requests for courses during the prescribed period using AccessPlus. Registration will begin after mid-semester and the order will be prioritized by credits completed (Seniors - first, Juniors - next, etc.).

8. If you need to make changes, consult your adviser and attempt to make the changes anytime during the prescribed period.

9. You are not officially enrolled until you have paid your fees. If you do not pay your fees by the designated date, you will lose the classes in which you were registered.
Methods of Registration

1. AccessPlus
   - Requires any computer with internet access, ISUCard PIN, student ID number, and RAN.
     [http://accessplus.iastate.edu/](http://accessplus.iastate.edu/)
   - NOTE: Check for any schedule conflicts!
   - Available through 1st week of classes to make schedule changes.
   - After the first week of classes, all schedule changes will need to be completed manually and signatures will be required.

2. Enrollment Services Center, Room 10
   - Physically register for classes
   - Use after registration via AccessPlus has ended or when signatures are required.

Classroom Assignment
Your schedule of classes, room assignments, and instructors will be available just prior to the start of each semester. This information can be obtained through AccessPlus and is located under the [Class Schedule] link.

Validation of Enrollment
You must attend one of the first two class meetings of each class in which you are enrolled to validate your enrollment. If you fail to attend one of the first two class meetings and attend the third day of class, the instructor has every right to ask you to drop the course. On the other hand, if you wish to drop a course, you must process the drop through AccessPlus, or by processing a "Request for Schedule Change or Restriction Waiver" form.
MAKING SCHEDULE CHANGES

It may be necessary for you to change your schedule either prior to the beginning of the semester or after the semester has begun. It is always a good policy to discuss schedule changes (course adds and course drops) with your adviser. Depending on the type of change and the date you wish to make a change, different procedures must be followed. Below are steps for making schedule changes.

NOTE: Detailed academic calendars can be found on the Registrar’s web page at: http://www.iastate.edu/~registrar/calendar.

<table>
<thead>
<tr>
<th>Time Periods</th>
<th>Procedure</th>
<th>Fee</th>
<th>Record</th>
</tr>
</thead>
<tbody>
<tr>
<td>Period 1: Through the fifth day of classes. Fall: August 29, 2014 Spring: January 16, 2014</td>
<td>➢ Process drops through AccessPlus. ➢ Process adds or section changes with a “Request For Schedule Change or Restriction Waiver” form.</td>
<td>No Fee</td>
<td>Drop does not appear on your Student Grade Report or permanent record.</td>
</tr>
<tr>
<td>Period 2: After period 1, until a week after midterm: Fall: October 31, 2014 Spring: March 27, 2014</td>
<td>➢ Process a “Request For Schedule Change or Restriction Waiver” form with the following items included: ➢ Your signature ➢ Adviser’s signature ➢ Instructor’s signature</td>
<td>Fee of $12.00 is Assessed</td>
<td>Course will appear as a drop* with an “X” on the Student Grade Report and permanent record and will count against your limit of dropped courses.</td>
</tr>
<tr>
<td>Period 3: After period 2, through the remainder of the semester</td>
<td>➢ A drop or add will not be approved except for unusual circumstances that are beyond your control. ➢ The change must be approved by the College of Agriculture and Life Sciences Office.</td>
<td>Depends on Circumstances</td>
<td>Depends on Circumstances</td>
</tr>
</tbody>
</table>

*Drop Limit: If you entered Iowa State as a freshman, you are limited to five course drops during your academic undergraduate career. (This refers to drops processed after the fifth day of classes of each semester.) If you entered Iowa State above freshman classification, you are allowed to drop a maximum of four classes. Courses dropped during your first term at Iowa State are not included in this limit.
DEGREE AUDIT REPORTING SYSTEM (DARS)

The Degree Audit Reporting System (DARS) has evolved over time. For students, the system has gone paperless and can be accessed via AccessPlus. The purpose of this document is to communicate how the courses you have taken are applied to fulfill your degree requirements. Your adviser will work with you during the registration period in reviewing your DARS audit. If any changes need to be made, your adviser will note those on the sheet and will forward the audit for departmental and College of Agriculture approval. As a senior, the audit becomes a contract between you and the University for the completion of your degree. During your last semester, a Graduation Evaluator will check your DARS audit to see if you have fulfilled your contract. A generic degree audit for each major can be found in the appendix.

To obtain a copy of your DARS audit at any time, log on to AccessPlus and click on the Degree Audit link on the left-hand side of the web page. Another benefit of the electronic version of DARS is that students can create “what if programs.” This is particularly useful for students who may be interested in changing their major. However, this does not eliminate the need for visiting with an adviser in that major. The adviser in the prospective degree program may be able to make substitutions (especially for transfer students) that the computer system may not recognize.

How to Use the Degree Audit Sheet

General Student Information is found in the first box in column 1 (top left portion of page 1). The box provides information related to the total number of credits, cumulative GPA, deficiency points, classification, and adviser. The line below the general information is a notation that states that at least one requirement has not been met for graduation. The notation serves as a checks and balances system. The next box is a continuation of the checks and balances and outlines the minimum number of credits and GPA needed to graduate.

The next several sections, beginning with International Perspectives, outline the specific requirements for the degree program. The following table outlines the required sections. The requirements are fairly descriptive and are explained in detail on the DARS audit. If the area is not complete, it will say “NO” at the top left of the box and there will be a dash (-) in front of the requirement that has not been met. If the student is in a course during the term that the audit was printed, “CUR” will be printed in place of the grade and stands for “current.” If the audit is printed after a student is registered for a course, the word “reg” will be displayed in the grade area. A legend is provided on the degree audit after the electives to assist in the comprehension of the audit. Finally, if the course is completed and a grade has been submitted, a plus (+) will show up in front of the requirement to confirm that the requirement was met.

<table>
<thead>
<tr>
<th>Areas</th>
<th>Ag Studies</th>
<th>Ag&amp;Life Sci Education Cert</th>
<th>Ag&amp;Life Sci Education Comm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area 1</td>
<td>International Perspectives</td>
<td>International Perspectives</td>
<td>International Perspectives</td>
</tr>
<tr>
<td>Area 2</td>
<td>U.S. Diversity</td>
<td>U.S. Diversity</td>
<td>U.S. Diversity</td>
</tr>
<tr>
<td>Area 3</td>
<td>Communications/Library</td>
<td>Communications/Library</td>
<td>Communications/Library</td>
</tr>
<tr>
<td>Area 4</td>
<td>Humanities/Social Sciences</td>
<td>Humanities/Social Sciences</td>
<td>Humanities/Social Sciences</td>
</tr>
<tr>
<td>Area 5</td>
<td>Ethics</td>
<td>Ethics</td>
<td>Ethics</td>
</tr>
<tr>
<td>Area 6</td>
<td>Math, Physical &amp; Life Sciences</td>
<td>Math, Physical, &amp; Life Sciences</td>
<td>Math, Physical, &amp; Life Sciences</td>
</tr>
<tr>
<td>Area 7</td>
<td>Ag Science/Ag Econ</td>
<td>Ag Science/Ag Econ</td>
<td>Ag Science/Ag Econ</td>
</tr>
<tr>
<td>Area 8</td>
<td>Other Required Courses</td>
<td>Professional Certification</td>
<td>Professional Communications</td>
</tr>
<tr>
<td>Area 9</td>
<td>Electives</td>
<td>Electives</td>
<td>Electives</td>
</tr>
</tbody>
</table>

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GRADUATION PROCEDURES

Your Graduation Check List

Your last semester may seem a long time away right now, but the time will go quickly. There are several procedures that you must follow in order to graduate:

1) During the semester prior to your expected graduation, complete an Application for Graduation on Access Plus.

2) During the second week of your graduation semester, see your adviser to check over your graduation Advisement/Degree Audit sheet.

3) During your graduation semester, complete and pass all your courses.

4) During your undergraduate career, you must demonstrate English proficiency by earning:
   a. A "C" or better in six credits of written communication (Engl 150 and 250, and/or any upper level written communication course).
   b. A "C" or better in the oral communication course.

5) During your undergraduate career, you must attain a cumulative GPA (Grade Point Average) of at least 2.00 (or 2.50 for students working toward Teacher Certification) and have removed all quality deficiency points.

6) During your undergraduate career, you must complete all the requirements of your major. Work closely and regularly with your adviser to ensure all requirements are met.
THE GRADING SYSTEM

You will receive a grade report at the end of each semester. Grades are based on a 4.00 scale, with quality points per credit hour assigned as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
</tr>
<tr>
<td>C+</td>
<td>2.33</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.67</td>
</tr>
<tr>
<td>D+</td>
<td>1.33</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.67</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Each semester your grade report will show a term and a cumulative grade point average (GPA). Both letter grades and “R”s (required) are calculated into the GPA. Courses in which you earn “S” (satisfactory), “P” (passing), “NP” (not passing), and “T” (satisfactory performance in a special examination for credit) are not counted in calculating your GPA. If a course is repeated, the cumulative GPA is calculated using the most recent grade, up to a limit of 15 designated repeat credits. Grades on all courses attempted remain on your record.

Your semester GPA is based upon the sum of the quality points obtained for each course divided by the total number of credits for which you had registered. In Example 1, semester GPA is calculated.

**Example 1: Calculating Semester Grade Point Average**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSM 210</td>
<td>2</td>
<td>A-</td>
<td>(2x3.67) 7.34</td>
</tr>
<tr>
<td>AgEdS 110B</td>
<td>1</td>
<td>A</td>
<td>(1x4.00) 4.00</td>
</tr>
<tr>
<td>AnS 114</td>
<td>3</td>
<td>A</td>
<td>(3x4.00) 12.00</td>
</tr>
<tr>
<td>Biol 101</td>
<td>3</td>
<td>C</td>
<td>(3x2.00) 6.00</td>
</tr>
<tr>
<td>Engl 150</td>
<td>3</td>
<td>C+</td>
<td>(3x2.33) 6.99</td>
</tr>
<tr>
<td>Lib 160</td>
<td>1</td>
<td>S</td>
<td>0.00</td>
</tr>
<tr>
<td>Math 150</td>
<td>3</td>
<td>B+</td>
<td>(3x3.33) 9.99</td>
</tr>
<tr>
<td></td>
<td>16.0</td>
<td></td>
<td>46.32</td>
</tr>
</tbody>
</table>

GPA = Total Quality Points/Total Credits (46.32/15 = 3.09)

(A “Fail” for Lib 160 would have been included in the GPA calculation.)
Other Types of Grades:

Satisfactory-Fail: Lib 160 is an example of courses graded as Satisfactory-Fail. A grade of Satisfactory (S) carries credit toward graduation, but is not included in calculating your GPA. A grade of Fail (F) carries zero quality points and is included in the calculation of your GPA.

Pass-Not Pass: Neither Pass (P) nor Not Pass (NP) is counted in your grade point average. A maximum of nine Pass-Not Pass semester credits may be used to meet degree requirements. A minimum of a “D-” must be earned in order to receive a passing grade. To be eligible to participate in the Pass-Not Pass system, you must:

1) Have earned at least 40 credits
2) Not be on academic warning or probation
3) Take only free electives (on the Pass-Not Pass system)

Courses taken Pass-Not Pass may not be used as part of your major requirements, or to complete a minor or double major.

To declare that a course be graded on the Pass-Not Pass system, you must obtain the signature of your adviser in the approval section of the "Request for Schedule Change or Restriction Waiver" form and process the form. A change from a graded basis to Pass-Not Pass may be made within the first two periods as described on page 20.
ACADEMIC PROGRESS

It is the department's hope that you will make satisfactory academic progress as you strive to attain your goal of earning a Bachelor of Science degree. The University will give you feedback on your academic performance by recognizing your exemplary performance or warning you when you are in academic peril. Exemplary performance is recognized by being placed on the Dean's List. Weak academic performance is brought to your attention by being placed on academic probation.

**Dean's List**
Each semester, the University issues a Dean's List including those students who have carried 12 credits of graded or S-F courses with a 3.50 grade point average or above. Courses taken on a P-NP basis do not count as part of the 12-credit requirement. No Dean's List is issued for Summer Session.

**Academic Probation**
To maintain the integrity of Iowa State University baccalaureate degrees, the function of academic probation is to identify, warn, and provide assistance for students who are not making satisfactory academic progress. The intent is to connect academic probation students with academic interventions and support at the earliest point possible. The new policy was developed, therefore, to:

- warn students of future academic consequences
- intervene with appropriate support services and resources
- comply with requirements for financial aid disbursement

Your academic adviser will play a crucial role in the early intervention part of this new policy. In addition to being placed on academic warning or probation, students will be required to meet with their academic adviser early in the semester to develop a strategy for long-term academic success. An academic assessment will be placed on the web and each student will be required to complete this assessment and return it to their academic adviser within the first 10 days of the semester. Students who fail to meet with their adviser within the first 10 days will have a registration hold on their record for the next registration period. The Academic Success Center will be adding a staff member to develop resources to identify obstacles to students’ academic success and to provide assistance for students who need to work on specific study strategies or need tutoring. Other academic partners, such as Multicultural Student Services, scholarship programs, Athletics, housing, etc., may also be involved in coaching the student back to a 2.00.

The policy provides a two-tier probation system: warning and probation.
**Academic Warning:**
Placed on Academic Warning if semester GPA is between 1.00 and 1.99. At the end of the semester during which they are on Academic Warning:

- If semester GPA is 2.00 or above, they are off Academic Warning.
- If semester GPA is below 2.00, they are placed on **Academic Probation** the following semester.

**Academic Probation**
Placed on Academic Probation:

- If semester GPA is below 1.00 or
- If 75 or more total credits attempted or earned and cumulative GPA is less than 2.00 or
- If semester GPA is below 2.00 for second consecutive semester and they were previously on Academic Warning

The semester a student is on Academic Probation, he/she must earn a 2.00 semester GPA or he/she will be dismissed at the end of that semester.

NOTE: This is a new Academic Standards policy that was approved by the Faculty Senate and signed by President Geoffrey. The policy went into effect spring semester 2007. The complete academic standards policy is found at [http://catalog.iastate.edu/academiclife/#academicprogress](http://catalog.iastate.edu/academiclife/#academicprogress).
ACADEMIC INTEGRITY AND PROFESIONALISM

If you don’t have your integrity, what do you have?? This is a question that each of us should reflect on from time to time! In today’s society, it is extremely easy to cut corners and compromise one’s integrity and reputation. The technological advances we have seen in recent years have not only created innumerable benefits, but have also created unpleasant issues. As a college student, you will be faced with many difficult decisions – ones that could compromise your integrity and impact your education and ability to obtain employment. In order to better understand the consequences, academic integrity and professionalism related to web postings are addressed – specifically Facebook.

Academic Dishonesty

Academic dishonesty occurs when a student uses or attempts to use unauthorized information in the taking of an exam; or submits as his or her own work themes, reports, drawings, laboratory notes, or other products prepared by another person; or knowingly assists another student in such acts or plagiarism. Such behavior is abhorrent to the university and students found responsible for academic dishonesty face expulsion, suspension, conduct probation, or reprimand. Instances of academic dishonesty ultimately affect all students and the entire university community by degrading the value of diplomas when some are obtained dishonestly, and by lowering the grades of students working honestly.

Examples of specific acts of academic dishonesty include but are not limited to:

a. Obtaining unauthorized information. Information is obtained dishonestly, for example, by copying graded homework assignments from another student, by working with another student on a take-home test or homework when not specifically permitted to do so by the instructor, or by looking at your notes or other written work during an examination when not specifically permitted to do so.

b. Tendering of information. Students may not give or sell their work to another person who plans to submit it as his or her own. This includes giving their work to another student to be copied, giving someone answers to exam questions during the exam, taking an exam and discussing its contents with students who will be taking the same exam, or giving or selling a term paper to another student.

c. Misrepresentation. Students misrepresent their work by handing in the work of someone else. The following are examples: purchasing a paper from a term paper service; reproducing another person's paper (even with modifications) and submitting it as their own; having another student do their computer program or having someone else take their exam.

d. Bribery. Offering money or any item or service to a faculty member or any other person to gain academic advantage for yourself or another is dishonest.

e. Plagiarism. Unacknowledged use of the information, ideas, or phrasing of other writers is an offense comparable with theft and fraud, and it is so recognized by the copyright and patent laws. Literary offenses of this kind are known as plagiarism.

Plagiarism occurs when they do not credit the sources from which they borrow ideas, whether these ideas are reproduced exactly or summarized. The method of documentation will differ depending on whether the sources are written, oral, or visual. Ethically, communicators are responsible for providing
accurate, detailed information about their sources. Practically, audiences need this information to comprehend and evaluate a message’s content. The Student Guide: English 150 and 250, available for purchase at the University Book Store, describes the process of documenting source materials as do many other reference guides.

Academic dishonesty is considered to be a violation of the behavior expected of a student in an academic setting as well as a student conduct violation. A student found responsible for academic dishonesty or academic misconduct is therefore subject to appropriate academic penalty to be determined by the instructor of the course, as well as sanctions under the university Student Disciplinary Regulations. If an instructor believes that a student has behaved dishonestly in a course, the following steps are to be followed:

1. The instructor should confront the student with the charge of dishonesty and arrange a meeting with the student to discuss the charge and to hear the student’s explanation.

2. If the student admits responsibility for academic misconduct, the instructor shall inform the student (a) of the grade on the work in which the dishonesty occurred, and (b) how this incident will affect subsequent evaluation and the final grade.

Because academic dishonesty is also a student conduct violation under Section 4.2.1 of the Student Disciplinary Regulations, instructors are encouraged to report the incident in writing to the Dean of Students. After investigating the incident and discussing it with the instructor, the Dean of Students, or his/her designee, will meet with the student and, depending on the severity of the offense as well as on the student’s past conduct record, may handle the matter through an administrative hearing or schedule a hearing before the All University Judiciary (AUJ).

This hearing, conducted according to the procedures outlined in the Student Disciplinary Regulations, is to determine the disciplinary action to be taken. In any case, the student's academic adviser will be informed of the incident but may not insert any record of it in the student's academic file.

3. If the student claims to be not responsible for the alleged violation of academic misconduct, the instructor may not assign the student a grade for the work in question until the question of responsibility is resolved, unless circumstances require that an interim grade be assigned. The instructor shall consult with his or her department chair and report the incident in writing to the Dean of Students.

The Dean of Students will refer the case to the Office of Judicial Affairs for investigation. After reviewing the report and completing an investigation, the Office of Judicial Affairs will file a formal complaint against the student if it is determined that there is cause to believe academic misconduct occurred. The case may be adjudicated through an administrative hearing or referred to a hearing before the All University Judiciary (AUJ) depending on the nature and severity of the violation as set forth in the Student Disciplinary Regulations.

If the case is referred to the AUJ both the student and instructor will be invited to attend an AUJ hearing and present pertinent information. If the Administrative Hearing Officer (in a minor case) or the AUJ (in a major case) finds the student responsible for the charge of academic misconduct, the
instructor will inform the student (a) of the grade on the work in which the dishonesty occurred, and (b) how this incident will affect subsequent evaluation and the final grade. The Administrative Hearing Officer or AUJ will determine the appropriate disciplinary action with respect to the nature of the violation.

If the Administrative Hearing Officer or AUJ finds the student "not responsible" for academic misconduct, the instructor will grade the student accordingly on the work in question and the student's grade in the course will not be adversely affected. If the student is found responsible, the student's adviser will be informed of the decision but shall not insert any record of the action in the student's academic file.

4. If a student either admits dishonest behavior or is found responsible for academic misconduct by the AUJ, the Office of Judicial Affairs (OJA) or AUJ may impose any of the following sanctions:

a) Disciplinary Reprimand: An official written notice to the student that his/her conduct is in violation of university rules and regulations.

b) Conduct Probation: A more severe sanction than a disciplinary reprimand, to include a period of review and observation during which the student must demonstrate the ability to comply with university rules, regulations, and other requirements stipulated for the probation period.

c) Suspension/Deferred Suspension: The suspension is deferred subject to a definite or indefinite period of observation and review. If a student is found responsible for a further violation of the university Student Disciplinary Regulations or an order of a judiciary body, suspension will take place immediately.

Definite:
The student is dropped from the university for a specific length of time. This suspension cannot be for less than one semester or more than two years.

Indefinite:
The Student is dropped from the university indefinitely. Reinstatement may be contingent upon meeting the written requirements of the AUJ specified at the time the sanction was imposed. Normally, a student who is suspended indefinitely may not be reinstated for a minimum of two years.

d) Expulsion: The student is permanently deprived of the opportunity to continue at the university in any status.

5. A student accused of academic misconduct has the option to stay in the class or to drop the class if the drop is made within the approved time periods and according to the regulations established by the university. If the student chooses to drop the class, the student will be required to sign a statement of understanding that if the student is later found responsible for academic misconduct, then the student will receive an F for the course.
6. Procedures for appeal of either the All University Judiciary's conduct decision or the instructor's grade are outlined in the Student Information Handbook.

7. In instances in which the student admits responsibility or is judged to be responsible by OJA or the AUJ, a staff member of the Dean of Students Office will counsel with the student in an effort to deter any further such incidents.

8. Student records concerning academic dishonesty are maintained in the Dean of Students Office for a period of seven years, after which the file records are purged. These student records are confidential; nothing from them appears on a student's academic transcript. In the event that an instructor is uncertain how to handle an incident of suspected academic dishonesty, the Dean of Students is available at any time to provide advice and assistance to the instructor in deciding a proper course of action to be taken.

9. Students enrolled in the College of Veterinary Medicine are bound by an honor code. A charge of academic dishonesty may be made by a student or instructor to the Interclass Honor Board chairperson according to the procedures outlined in the Honor Code, or the instructor may follow procedures outlined above. The Interclass Honor Board functions as the judiciary of the College of Veterinary Medicine for the allegations presented to it.

Other violations related to academic misconduct may include subsection 4.1.11 Misuse of Computers and subsection 4.2.20 Unauthorized Sale of Others' Intellectual Works. These subsections are located in the Iowa State University Student Disciplinary Regulations under section 4 of the Conduct Code.

1 Taken from the 2011-2012 Iowa State University Catalog at;
http://catalog.iastate.edu/academiclife/#academicprogress
PROFESSIONALISM – Facebook Example

*Thoughts on Facebook*

INTRODUCTION

Facebook, like much of the Internet, is a great innovation! It offers you an opportunity to interact with an extraordinarily expansive universe of new people. You can sculpt your on-line identity and learn more about how the Internet and its various programs work to create new relationships and communities. For the entrepreneurially minded, it might be an introduction into business as you think of how to "market" yourself. Individuals with particular social identities or hobbies, say as a Christian gay person or someone who likes a narrow range of military on-line games, can use it to find friends with common interests. Facebook is a cool tool.

People make the technology, not only in the fundamental sense of discovery and invention, but also in the sense that they make it happen and that they contour it in ways that reflect our basic humanity. Our basic humanity is for better or for worse, however. It is vulnerable to context, circumstance, and interpretation. And so it is important to remember that Facebook is malleable and creates as many obligations as it does opportunities for expression. Below are five concepts to keep in mind when you use Facebook, as well as other programs of personal creativity, such as chat rooms or MySpace, on the Internet.

FIVE THINGS TO THINK ABOUT WHEN USING FACEBOOK

I. Invincibility

A long time ago, well before the advent of Facebook, there was a student at an it-shall-go-unnamed university who used a chat room to post some facts about the size of his penis. What a surprise when he went for his first job interview, all nicely tailored in a new suit and armed with a good G.P.A. He was rejected. Fortunately for him, there was a friendly alumnus on the search committee who told him the reason. The HR person on the hiring committee had looked him up on the Internet and found the boasting posting! Frantically, the student called the university officials asking them to remove it. Alas, they could not help him, because a commercial ISP was the domain of the posted information. In time, the student learned about the labyrinthine procedure in which he had to engage in order to have the posting removed. It never occurred to him that a relatively harmless boast could cause him so much trouble.

This example is just one of many. Other examples from around the country include students whose posted pictures of themselves partying bolstered the administration's case when the underage students were charged with alcohol abuse; a student who applied to be a resident adviser but was rejected because staff reviewing applications found material the student had posted on Facebook sites inappropriate; or the students reprimanded for extreme and possibly libelous statements that they made about a professor on their Facebook postings.
II. Caching

In the days before Google became the dominant search engine for the Internet, ISPs that sported chat rooms had policies regarding caching information. Nowadays, Google is the main corporate entity with which one deals when it comes to cached information. To date, Google has tended to be good about removing material within a certain number of days pursuant to a proper request. But let's take a step back and see what caching means.

Caching, in effect, means that if you post something on Facebook, let's say for a day or two, just to be funny or to make a point, even if you take it down or change it, it remains accessible to the rest of the world on the Internet anyway.

Take a moment to think about how you want to "brand" yourself on the Internet. Almost everyone is more complex of a person than a single label can explain, but for most people it takes time and effort, if not real friendship, to get to know people's complexities. Don't give people an excuse to think of you in a single dimensional way. Instead of trying just to fit into a single group, think about yourself as an interesting person with depth of personality and character. What you put out on Facebook about yourself should be an invitation to the rest of the world to get to know you better.

Then consider what it takes to get something removed from Google. You must go through their policy process\(^1\) for removing information from their caching technology. Not only is that a lot of bureaucracy, but also you should know that while Google is the dominant search engine on the Internet today, it might not be tomorrow. Moreover, other search engines operate currently on the Internet and so it is not just Google whom you might have to contact in order to remove a page.\(^2\)

\(^1\) Google offers a [Privacy questions/Removing information from Google's search results](https://support.google.com/webmasters/answer/160651) page, as well as [removal information for webmasters](https://support.google.com/webmasters/answer/2369601).

\(^2\) You may also want to check whether the material has been stored in the [Internet Archive](https://archive.org/)’s Wayback Machine.

You also might want to take a moment and reflect on the physical safety of this tool when posting information about yourself. No expectation of privacy, combined with the full range of humanity represented in these forums, means that you may be exposing yourself to someone who may not have the same values, assumptions about appropriate behavior or may even have a mental defect or disease which could put you at risk as a victim of criminal behavior. Very likely you would not place a placard in the
front of your house or dorm describing intimate details of your personal life, private sexual matters, detailed comings and goings, or anything else that someone less careful and competent than you might construe as an invitation for communication or even harassment and stalking that could prove dangerous. Use physical space as your guide. What you wouldn't put on a poster on your dorm room door you might want to think two or three times about posting on-line.

**THOUGHT:** With the freedom to post what you want comes the responsibility to do so in your interests not only for today, but also for who and what you want to be tomorrow. And also think of your personal safety. Cyberspace can have the effect of creating an illusion of intimacy that could prove dangerous for you in reality. Use the manners and mores of behavior in physical space both in how you present yourself and how you interpret other people on-line as a guide.

V. The Law

Most of the time when we talk about Facebook it is a very individual matter. There is yet another angle to consider: the privacy of others. "Privacy" is a complicated matter in American law. It evokes everything from the right to family planning through Fourth Amendment search and seizure to torts, or civil rights, "to be let alone" in our person.

Watch what you say! If you post an alleged fact about someone that proves incorrect, you may be liable for damages under either defamation or libel. Moreover, if you post photographs or information about someone that can be construed to be an "invasion of their privacy" (say while they were sleeping in their own bed), or "false light" (say suggesting that they are of one sexual persuasion when they are of another), or "misappropriation of likeness" (a claim usually reserved for celebrities, but then again we have them here at Cornell too!) then you may be liable for a tort under the broad rubric of "privacy."

**THOUGHT:** Think not only about what identity you create for yourself online, but also how you represent others. At the very least, be sure that you take their feelings into account. You would not want to find yourself as a defendant in a tort case that alleged you invaded their privacy.

CONCLUSION

Facebook, along with much of the Internet, is a great innovation that allows users to express their humanity and provides an opportunity to create new communities. As such it represents a forum in which one can make choices about their identity, at least insofar as one chooses to represent themselves publicly. That freedom does not suggest that one can do so with impunity, however. Because we live in a society in which expression is judged in legal, policy and even personal ways, it is important to remember the consequences of that expression no matter how ephemeral or fun in the moment it might seem to be.
This essay offers some things to contemplate when using Facebook, all of which can be summed up easily in a "Golden Rule." Don't say anything about someone else that you would not want said about yourself. And be gentle with yourself too! What might seem fun or spontaneous at 18, given caching technologies, might prove to be a liability to an on-going sense of your identity over the longer course of history. Have fun and make productive use of these new, exciting technologies, but remember that technology does not absolve one of responsibility. Behind every device, behind every new program, behind every technology is a law, a social norm, a business practice that warrants thoughtful consideration.

* Tracy Mitrano, Director of IT Policy and Computer Policy & Law Program, Cornell University, April, 2006.

THE WEB MEANS THE END OF FORGETTING

MAGAZINE | July 25, 2010
The Web Means the End of Forgetting
By JEFFREY ROSEN
The digital age is facing its first existential crisis: the impossibility of erasing your posted past and moving on.

HOW TO USE THE IOWA STATE UNIVERSITY GENERAL CATALOG

When planning your semester schedule there are several items to note when using the "Iowa State University Catalog," such as semesters when courses are offered and prerequisites for courses. Below is an excerpt from the catalog along with an interpretation for AgEdS 450.

AgEdS 450. Farm Management and Operation.
(1-6) Cr. 3. Repeatable for maximum of 9 credits. F.S.SS. Prereq: Econ 235, Econ 230, junior classification. Participation in the management and operation of a diversified Iowa farm. The class is responsible for the plans, records, and decisions for buying and selling the farm’s livestock, crops, and equipment. Special speakers on current topics. May be taken for credit up to 3 times at different times of the year by permission of the instructor. Nonmajor graduate credit.

AgEdS = Department name

450 = Course number

Farm Management and Operation = Course title

(1-6) = The first number inside the parenthesis indicates the number of lecture hours per week, and the second number indicates the number of lab hours per week. For this course there will be 1 hour of lecture class time each week and 6 hours of lab class time each week.

Cr. 3 = The course is worth 3 semester credits.

F.S. SS. = The course is offered each Fall, Spring, and Summer sessions.

Prereq: = Prerequisite indicates the specific academic background considered necessary for the student to be ready to undertake the course. You are advised not to enroll in a course where you lack a stated prerequisite without checking first with the course instructor. Without the background knowledge of the prerequisite, you will be at a huge disadvantage and may unsuccessfully struggle through the course.

Prereq: Econ 235, Econ 230, junior classification = The department considers Econ 235 and 230 and junior classification to be the general academic maturity necessary for you to be ready to undertake this course.
RESTRICTED ELECTIVES IN HUMANITIES, ETHICS, AND SOCIAL SCIENCES

Most of the electives in this area of your degree are similar across campus and from major to major. However, there can be some subtle differences, and you should work closely with your academic adviser to ensure that you are taking the proper classes.

University Requirements
All students that graduate from Iowa State University are required to take a course or have experience in both U.S. Diversity and International Perspectives. There is a host of courses that meet the 3-credit requirement in each of these areas. However, the courses must come from ISU’s approved list. This list is available on the web at the following location along with the ISU policy on this requirement:
http://www.registrar.iastate.edu/courses/div-ip-guide.html

College of Agriculture and Life Sciences Requirements
All curricula in the College of Agriculture lead to a Bachelor of Science degree. Each major has specific degree requirements for graduation based on department and college student learning outcomes. All students graduating with majors within the College of Agriculture and Life Sciences are expected to be proficient in the following college level outcomes:

Communications
- Be able to speak and write clearly and persuasively.
- Demonstrate the skill necessary to prepare effective visual presentations.
- Be able to receive information effectively through reading, listening, and observation.

Problem-Solving/Critical Thinking
- Be able to work effectively with others on complex, issue-laden problems requiring holistic problem-solving approaches.
- Demonstrate an ability to:
  - Distinguish verifiable facts from value claims,
  - Determine the accuracy of statements,
  - Identify assumptions and detect bias,
  - Distinguish relevant from irrelevant information,
  - Prioritize needs.
- Be able to summarize, analyze, and interpret simple research data.

Ethics
- Develop an ethical perspective and sense of moral responsibility and values.
- Be able to discuss contemporary ethical and moral issues in professional and private life.
- Be able to critically evaluate their own arguments and those of others.

Environmental Awareness
- Understand the physical and biological properties of the environment and how these properties are interlinked within ecological systems.
- Understand how human activities, such as modern agricultural practices, impact the environment and how societies are affected by environmental change.
International/Multicultural Awareness

- Have an awareness and understanding of cultural diversity within our own nation and around the world.
- Develop a global perspective on agricultural, environmental, economic, and natural resource issues.

In addition to the College level learning outcomes, each department within the college has additional discipline-specific outcomes that apply to graduates of that department. On the College’s Student Services web page (http://www.ag.iastate.edu/students/) there are links to approved lists of courses that meet the Humanities, Ethics, and Social Sciences requirements. Humanities and Social Sciences courses have some overlap with Ethics, International Perspectives, and U.S. Diversity requirements. Taking advantage of the Study Abroad program is a great way to gain International Perspective credits.
TRANSFER COURSES AND CREDITS

Many students, for a variety of reasons, desire to have course work and credits transferred to Iowa State. These reasons include, but are not limited to, starting at a community college and then transferring; others want to take a course or two over the summer closer to home, and others have a difficult time fitting a particular ISU course into their schedule.

For whatever reason, transferring courses from other institutions to ISU has become commonplace. Each student who plans to transfer course work should be educated on the policies and procedures related to transferring credits. An informed and educated student will have a much better experience than one who does not do “homework” in advance. The department highly recommends that you consult your academic adviser prior to taking any courses for the purpose of transferring them and using them in your degree program.

Rules and Information

1. The Credit Evaluation Office, which is part of the Admissions Office, determines whether a course is accepted at ISU or not. The College of Agriculture and the departments have a margin of freedom in applying credits to individual programs based upon the program requirements.

2. In most cases, a passing grade (anything other than an “F”) will transfer to ISU. However, anything less than a “C” will result in Quality Point Deficiencies being added to your ISU deficiencies.

3. Credits transferred into ISU will not be used to calculate your cumulative ISU GPA.

4. Two-year institutions and community college credits will be accepted up to a maximum of 65 credits. Of those 65 credits, 16 can be technical or vocational credits.

5. For those transferring credits from most 4-year institutions, there are no limits to the number of credits that can be transferred except for the 32 Credit Rule.

32 Credit Rule

Iowa State University regulations state that the last 32 semester credits of your degree must be completed at ISU. In some instances, waivers can be made and the College of Agriculture can allow the transfer of six additional credits during the last 32 credits.

Cross Enrollment with DMACC

The purpose of the DMACC/Iowa State University Cross Enrollment Program is to provide full-time students at both institutions the opportunity to enroll in one CREDIT class, without paying tuition, at the partner institution. Students are required to pay tuition and fees for those courses taken at the home institution, plus any special course fees at the host institution if applicable. Students registered under this agreement will be extended the use of the host institutions libraries, computer labs, and other student services. Credit earned at the host institution will be considered transfer credit at the home institution. For further information, the rules, and the forms, please refer to the following (http://www.iastate.edu/~registrar/info/crossnroll.html).
Plan Ahead
Because of the 32 Credit Rule and various other reasons, please plan ahead if you intend to transfer any courses. The following are things to consider:

- Work closely with your academic adviser. He/she can keep you informed of the rules and paperwork required and assist in completing the required paperwork.
- Articulation between the institutions is very important and constantly being updated. Therefore, check the course equivalency guide for courses that will fit your academic program.
- Have all transcripts forwarded to Iowa State University so they can be evaluated and added to your transcript.
- In forwarding transcripts, allow time for the process to be completed. It could take a few weeks before you actually see the course on your ISU transcript.
- For further detailed information, check out the ISU Transfer page on the website: [http://www.admissions.iastate.edu/transfer/](http://www.admissions.iastate.edu/transfer/).

SCHOLARSHIPS

There are many scholarships available for continuing students at Iowa State University. Please take the initiative and apply for the scholarships for which you are eligible. These continuing scholarships are available at the various levels of the University. There are several scholarships available university-wide, others that are available through the College of Agriculture and Life Sciences, and yet others available within the AgEdS Department.

Besides the scholarships awarded directly by the University system, there are other scholarships awarded each year. Many of the clubs and organizations on campus award scholarships to their outstanding members who have met certain qualifications. The Ag Ed Club and Farm Op Club both award annual scholarships. There are hundreds of groups and organizations that provide outside scholarships, which are offered locally, area-wide, state-wide, regionally, or even nationally. An example of national organizations would be the National FFA Organization and the Farm Bureau Federation.

It is important that you stay informed on the availability of these scholarships and complete them prior to the established deadlines. Continuing student general scholarship applications are available through the Financial Aid Office. Between December 26 and February 15 each year, general agricultural scholarships are available through the College of Agriculture and Life Sciences Scholarship web site (http://www.ag.iastate.edu/scholarships/). The AgEdS departmental scholarships are linked to the CALS scholarships – when you apply for one, you are also applying for the other. The AgEdS Department makes a special effort to notify all the students in the department of available scholarships. This is normally done via email sent out by the Director of Undergraduate Programs. Also, check out the ISU scholarship web site located within the Office of Financial Aid (http://www.financialaid.iastate.edu/).
SCHOLARSHIPS FOR TEACHERS
For students who complete the teacher certification option of agriculture and life sciences education and enter the field of agricultural teaching, there are some forgivable loan programs. The eligibility and requirements vary from year to year, so you should check early in your academic career to learn more. Visit http://www.iowacollegeaid.gov/LoanForgivenessPrograms/federalteacherloanforgiveness.html as a place to start learning more.

INTERNSHIPS AND EARLY FIELD-BASED EXPERIENCE (EFE)
At Iowa State University, learning related to career preparation can occur outside the classroom. AgEdS offers such opportunities in early field-based experiences (EFE) and internships. Internships can last from a few weeks to 9 months depending on arrangements made between student and employer.

An EFE or internship is a great way for both employer and student to learn more about each other in a work environment. An internship on your resume signals to a prospective employer that you have had exposure in a work setting. Each year, more and more companies hire employees from their internship pool because of this kind of experience. Every student in AgEdS is encouraged to participate in at least one internship. Students who are not involved in an internship experience while at ISU are missing a great opportunity AND an advantage in job seeking. Internships and EFEs focus on the student’s learning experience, not their work experience.

Following are descriptions of department courses involving field-based experiences (EFE). Students earn credit based on documentation and reflection of their learning experiences. Students do not receive credit for work experience; your grade is based on the portfolio you are required to turn in following your EFE. Criteria for the portfolio can be found on the Department’s web site.

AgEdS 116. Initial Field Experience in Agricultural Education.
(1-2) Cr. 1. F. Prereq: AGEDS majors only.
Field experience in a formal education setting designed to explore teaching as a career through guided observation and interviews, reflection, and on-campus dialogue.

The course is facilitated by Dr. Michael Retallick and meets the second eight weeks of the fall semester. It is designed for just entering and with a interest in potentially being an agriculture teacher.

AgEdS 211: Early Field-Based Experience
(1-0) Cr. 1 each time course is taken; maximum of 3 credits. F.S.SS. Prereq: 110.

211 Goal
To offer students an opportunity outside the classroom for career guidance, role modeling, and reflection on their observations that they can apply to their courses and other educational experiences.

211 Objectives
1. To identify the role of the agri-business professional, formal classroom or informal educator in the community and the scope of the agribusiness industry.
2. To provide the student with opportunities to make observations and take part in experiences that will help in making decisions about a career in agriculture.
3. To observe students, suppliers, or customers and their actions and identify learning abilities, individual differences and similarities, special needs, and biases.
4. To identify the various tasks that teachers or agri-business staff perform, the environment in which they perform, and the skills needed to complete the tasks satisfactorily.
5. Gain observational skills and practical experiences that will serve as a foundation for future course work.

When students register, it is their responsibility to make an appointment with the Supervisor of Internship Programs very early in the semester to plan their EFE.

   A. High School Agriculture Program
   B. Extension
   C. Agricultural Industries and Agencies

**AgEdS 412. Internship in Agricultural Education and Studies**
Cr. 2-6. Repeatable for maximum of 6 credits. F.S.SS. *Prereq: 211, junior classification in AgEdS and permission of instructor.* A supervised two to twelve week learning experience in an approved learning setting with application to educational, agricultural and/or environmental practices and principles. Nonmajor graduate credit.

**AgEdS 418. Supervised Extension Experience**
Cr. 2-8; Repeatable for maximum of 16 credits. F.S.SS. *Prereq: 211, junior classification, permission of instructor.* Supervised professional experience in an approved county, area or state Cooperative Extension Service office. Nonmajor graduate credit.

**Early Field Based Experience (EFE)**

**AgEdS 211A** is developed specifically for teacher certification and those who want a high school agricultural EFE. The instructor for AgEdS 211A is Dr. Michael Retallick.

All materials for AgEdS 211A are available via Blackboard Learn once you enroll in the course. Under course content, you will find two folders of material. The first folder is an introduction to AgEdS 211, which provides the course objectives, the course manual (i.e., syllabus), a short video presentation of the purpose and expectations of the course and web links to other teacher education resources. The second folder had the steps for completing the EFE. Everything is outlined in detail. Be sure to read all the material including the manual prior to contacting Dr. Retallick with questions.

Prior to and throughout the semester, as needed, you will receive periodic emails from Dr. Retallick. That information will also be placed in BbL as an announcement.
AGEDS 211C
AgEdS 211 is required and must be completed **before** any student is eligible to participate in AgEdS 412/418 and AgEdS 416/417. Therefore, plan ahead.

**Tips for a successful AgEdS 211 Early Field Experience (EFE)**
1. In the AgEdS Department, EFE programs are planned, developed, and evaluated as they relate to academic programs. **AgEdS 211 is NOT a work experience.** The course’s purpose is to provide career guidance, role modeling, and exposure to a professional environment for students to apply to their courses and other educational experiences.
2. Be sure to sign up for the appropriate course number. The letter is part of the course number, not the section.
   AgEdS211A = Ag High School
   NOTE: 211A is especially important to Ag Ed Certification majors so that it can later be verified that you had an EFE for teacher licensing.
   AgEdS 211C = Ag business & agencies & Extension
3. AgEdS 211 can be taken up to 3 times in different settings. This allows students several opportunities to get broad exposure in various professional/school settings.
4. This course is **NOT** for any work experience that you have already had. It is an applied academic course and involves planned observations and special assignments in an environment you have not experienced before.
5. **AgEdS 211 is a prerequisite** for all other departmental internships including student teaching.
6. **You will not be contacted.** You must take the initiative and contact Dr. Brown. This is part of the learning experience associated with AgEdS 211.
7. All students registered for AgEdS 211 (A or C) will be required to complete their field experience **5 weeks before the end of the semester** they are registered.
   ♦ Failure to complete the field experience by this timeline will result in a grade of F.
   ♦ Incompletes rarely are given, only for extenuating circumstances at the discretion of the Internship Supervisor.
   ♦ The EFE must be completed **before** Thanksgiving break.
8. Students may complete their EFE prior to the semester they are registered for **IF** they contact Dr. Brown early enough:
   ♦ For students registered for 211 in fall semester, the EFE can be completed in May of that year following finals for spring semester.
   ♦ For students registered for 211 in spring semester, the EFE can be completed before that spring semester begins **IF** there is sufficient time (at least 5 business days) between the first of the year and the beginning of spring semester; or during spring break.
9. Portfolios are due 2 weeks after the EFE completion date regardless of what semester the student is registered.
10. If you are in the Teacher Education program, effective Fall 2007, you are required to have a background check before you can be in a classroom with students. Results of the background check are completely confidential from faculty and administration.
   ♦ You, the student, start the process through the Teacher Education Services.
   ♦ The student pays a fee to cover the cost of the process.
11. All questions and inquiries should be directed to Dr. Brown. Your academic adviser is familiar with the EFE process. Dr. Brown supervises these experiences and can provide the most detailed information.

**Professional Internship Program in Agricultural Education and Studies (AgEdS 412/418)**

1. In the AgEdS Department, these programs are planned, developed, and evaluated based on 10 competencies. Internships are NOT work experiences. The purpose of these courses is to allow students to gain proficiency in specific competencies which are the core of the internship experience. It is a dynamic application of education, where students enhance their abilities to set goals and outline plans to achieve them, and reflect on their observations and experiences as they relate to the competencies in an environment where they can develop these competencies professionally.
2. Internships offer you opportunities to further develop (and practice) the competencies of **problem-solving, decision-making, teamwork, initiative taking, leadership, listening, creativity, critical thinking, verbal, and written communication skills** that you have already begun to develop through your course work and involvement in academic clubs.
3. Prior to accepting a specific internship, please meet with Dr. Brown to ensure it is the most valuable experience for you, meets course requirements, and is an approved site.
4. Please notify Dr. Brown as soon as you have accepted an internship so the appropriate communication process can begin between you, the employer and your work site supervisor. A minimum of a month is required.
5. For those degrees where an internship is required and the student is planning to graduate, five weeks between the end of the internship and graduation is needed: two weeks to complete and turn in the material and two weeks for it to be graded.

*Dr. Tom Paulsen is the coordinator of the higher-level Teacher Certification experiences. They include:

- **AgEdS 416. Pre-Student Teaching Experience in Agricultural Education**
  Cr. 1. F.S. Prereq: 211, 402 and admission to teacher education program. A one-week field-based experience in an approved secondary agricultural education program. Concurrent enrollment in 417 is required. Non-major graduate credit.

- **AgEdS 417. Supervised Teaching in Agricultural Education Programs**
  Cr. 12. F.S. Prereq: 211, 402 and admission to teacher education program. Supervised teaching in public schools. Non-major graduate credit.

**NOTE:** EFE (AgEdS 211) is still required prior to taking AgEdS 416 and 417.
OTHER SERVICES AVAILABLE

At times you will need assistance other than that which your adviser can provide. Below are listed some typical situations that you may encounter during your academic career and the offices where you can go to obtain assistance.

<table>
<thead>
<tr>
<th>If You</th>
<th>Go To</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Lose your student I.D. card</td>
<td>Student Answer Center – Ground Floor of Beardshear (Rm 0530)</td>
</tr>
<tr>
<td>- Need a copy of your ISU transcript</td>
<td>214 Enrollment Services Center; AccessPlus (unofficial); process request via AccessPlus</td>
</tr>
<tr>
<td>- Need &quot;Good Student&quot; certification for your auto insurance</td>
<td>214 Enrollment Services Center; process request via AccessPlus</td>
</tr>
<tr>
<td>- Change your address</td>
<td>Access Plus; department secretary</td>
</tr>
<tr>
<td>- Need walk-in medical service (appointments preferred)</td>
<td>Thielin Student Health Center Sheldon and Union Drive</td>
</tr>
<tr>
<td>- Need tutorial assistance in a course (can make request via web)</td>
<td>Tutor Program 1060 Hixson-Lied Center</td>
</tr>
<tr>
<td>- Need study, reading, and/or test-taking skills improvement at no charge</td>
<td>Academic Learning Lab 1060 Hixson-Lied Center</td>
</tr>
<tr>
<td>- Need career exploration information</td>
<td>Student Counseling Services 3rd Floor, Student Services Building</td>
</tr>
<tr>
<td>- Want to explore summer/full-time job opportunities</td>
<td>Ag Career Services Office 15 Curtiss Hall</td>
</tr>
</tbody>
</table>

SUMMARY OF INTRODUCTION SECTION

The Agricultural Education and Studies faculty and staff are here to help you make the most of your educational experience. **Remember, you are not an interruption of our work, but the purpose of it.** Best wishes to you for an exciting and successful university experience.

The following sections are broken down into the individual majors offered within the AgEdS Department. Please refer to those sections for specific details regarding the specific majors.
AGRICULTURAL STUDIES DEGREE REQUIREMENTS

The Agricultural Studies curriculum was designed to provide graduates with a broad foundation in agriculture and enough flexibility to tailor the major to meet individual needs and interests. From 1945, when the curriculum had its first Bachelor of Science degree graduate, to 1986, Agricultural Studies was known as the Farm Operation Curriculum. In 1986, the name was changed to Agricultural Studies-Farm Operation. In 1989, the name was changed to Agricultural Studies to more adequately reflect the variety of careers that graduates enter upon receiving their Bachelor of Science degree. To receive a B.S. degree in Agricultural Studies, you are required to complete courses in three main areas: core requirements, agriculture, and free electives.

Whenever you have questions about sequencing your coursework, seek your adviser's counsel. Later in this section, a "Typical Course Sequence" list is provided as a guide to follow in planning the completion of your Agricultural Studies degree requirements. Also included is the Agricultural Studies Curriculum Bachelor of Science degree requirement sheet.

Core Requirements

All students at ISU are required to complete basic university and college core requirements. In the College of Agriculture and Life Sciences, regardless of curriculum, the basic courses required are similar. Core requirements in Agricultural Studies include the following:

<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Perspectives &amp; U.S. Diversity</td>
<td>6</td>
</tr>
<tr>
<td>Interpersonal &amp; Public Communication</td>
<td>13</td>
</tr>
<tr>
<td>Math, Physical &amp; Life Sciences</td>
<td>19</td>
</tr>
<tr>
<td>Humanities, Ethics, and Social Sciences</td>
<td>9</td>
</tr>
</tbody>
</table>

Most of these requirements have been explained in the general section of this handbook, as they are required for all majors in this department.

English proficiency requires a C or better in 6 credits of written communication, 3 credits of speech and successful completion of Lib 160.

However, a requirement specific to the College of Agriculture and Life Sciences is the Ethics Elective. Students must successfully complete 3 credits of Ethics. A list of the most common courses taken by students in the department that meet this requirement follows on the next page. This condensed list is also available on the back of the curriculum sheet and the complete list can be found on the web at: http://www.agstudent.iastate.edu/agriculturestudentservices/ethicslist.html.
Agriculture Courses

Agricultural Studies students are required to take a broad foundation of agricultural courses, supplemented with additional agricultural electives. The foundation includes the following courses with the number of semester hours included in parenthesis following each course number.

- **Ag Education and Studies**: 110B (1), 215 (1), 315 (3), 450 (3), 451 (4)
- **Agronomy**: 114 (3), 154 (3), 212 (3), 212L (1)
- **Animal Science**: 101 (2), 114 (2), Elective (6)
- **Economics**: 235 (3), 230 (3), 334 (3)
- **NREM**: 120 or 130 (3)
- **Accounting**: 284 (3)

The agricultural electives you will take depend on whether you want to specialize or remain diversified. Diversifying has the advantage of providing you with a well-balanced foundation in agriculture. However, you might be interested in a more in-depth study in one of the agricultural areas; therefore, specializing may fulfill your needs. If you choose to specialize, you would take more classes in an area such as animal science, and fewer in the other agricultural areas. This choice allows you to become especially knowledgeable in a particular area.

Free Electives

Free electives are credits that you may use by taking any course work you wish; although, most students use free electives on agriculturally-related course work. You can make wise use of your free electives by taking course work to prepare for your career after graduation. The variety of ways in which you might take your free elective credits is endless. Following are some interest areas that you may wish to consider:

- Agribusiness Management
- Agricultural Sales and Marketing
- Agronomy/Crop Production Specialist
- Farm Management
- Livestock Production & Management
- Pest Management
- Communication and Journalism
- Agricultural Law
- Technology Systems Management (TSM)
- Entrepreneurship
- International Agriculture
- Natural Resource Conservation
- Horticulture, Turf, and Landscape
- Free Electives

If one or more of these areas are of interest to you, browse through the various courses listed on the following pages to find courses to complete for an emphasis in that area. For a description of any of these courses, please refer to the current ISU Catalog that you received at orientation or access the catalog on the web.
AGRIBUSINESS MANAGEMENT
Acct 285. Managerial Accounting. (3-0) Cr. 3. F.S.SS. Prereq: 284.
Mgmt 310. Entrepreneurship and Innovation. (3-0) Cr. 3. F.S. Prereq: Sophomore classification.
Mgmt 313. Feasibility Analysis and Business Planning. (3-0) Cr. 3. F.S. Prereq: 310
SCM 301. Supply Chain Management. (3-0) Cr. 3. F.S.SS. Prereq: Econ 101, Stat 226.

AGRICULTURAL LAW
AgEdS 451. Agricultural Law. (3-2) Cr. 4. S. Prereq: Senior classification.

AGRICULTURAL SALES AND MARKETING
AgEdS 311. Presentation and Sales Strategies for Agricultural Audiences. (3-0) Cr. 3. F.S.
Mkt 343. Personal Sales. (3-0) Cr. 3. Prereq: 340.
Mkt 442. Sales Management. (3-0) Cr. 3. F.S. Prereq: 340.
Sp Cm 327. Persuasion. (3-0) Cr. 3. F.S.SS. Prereq: 212.

TECHNOLOGY SYSTEMS MANAGEMENT - TSM
TSM 115. Solving Technology Problems. (2-2) Cr. 3. F.S. Prereq: Math 140 (can be taken concurrently).
TSM 116. Introduction to Design in Technology. (2-2) Cr. 3. F.S.
TSM 210. Fundamentals of Technology. (3-0) Cr. 2. F.S. Prereq: 115, Math 140.
TSM 270. Principles of Injury Prevention. (3-0) Cr. 3. F.
TSM 322. Preservation of Grain Quality. (2-0) Cr. 2. S. Prereq: Math 140.
TSM 322L. Preservation of Grain Quality. (0-3) Cr. 1. S. Prereq: Credit or enrollment for credit in 322.
TSM 325. Biorenewable Systems. (3-0) Cr. 3. F. Prereq: Econ 101, Chem 163 or higher, Math 140 or higher.
TSM 333. Precision Farming Systems. (2-2) Cr. 3. F. Prereq: Math 140 or 160, Junior or Senior classification.
TSM 335. Tractor Power. (3-3) Cr. 4. F. Prereq: 210, Math 142. Restricted to AST and ITEC majors.
ENSCI 446. **Integrating GPS and GIS for Natural Resource Management.** (2-3) Cr. 3. S. Prereq: 12 credits in student's major at 300 level or above, NREM 345 or equivalent experience with ArcGIS.

**AGRONOMY/CROP PRODUCTION SPECIALIST**

**Agron 206.** **Introduction to Meteorology.** (Same as Mteor 206.) (3-0) Cr. 3. F.S.

**Agron 260.** **Soils and Environmental Quality.** (3-0) Cr. 3. F.S.

**Agron 317.** **Principles of Weed Science.** (Same as P M 317.) (2-2) Cr. 3. F. Prereq: Biol 201 and 202.

**Agron 334.** **Forage Crop Management.** (3-0) Cr. 3. F.S. Prereq: 114.

**Agron 354.** **Soils and Plant Growth.** (Same as P1 HP 354.) (3-0) Cr. 3. F.S. Prereq: 154 and Biol 101 or 212.

**Agron 354L.** **Soils and Plant Growth Laboratory.** (Same as P1 HP 354L.) (0-3) Cr. 1 F.S. Prereq: credit or enrollment in 354.

**Agron 392.** **Systems Analysis in Crop & Soil Management.** (2-3) Cr. 3. F.S. Prereq: 316, 354.

**Agron 450.** **Issues in Sustainable Agriculture.** (Same as Env S 450.) (3-0) Cr. 3. F.

**Agron 497.** **Agroecology Field Course.** (3-0) Cr. 3 F. Prereq: Jr. or Sr. classification with at least 8 credits in Agronomy.

**TSM 324.** **Soil and Water Conservation Management.** (2-3) Cr. 3. S. Prereq: Math 140 or 160.

**TSM 322.** **Preservation of Grain Quality.** (2-0) Cr. 2. S. Prereq: Math 140.

**TSM 322L.** **Preservation of Grain Quality.** (0-3) Cr. 1. S. Prereq: Credit or enrollment for credit in 322.

**Ent 201.** **Introduction to Insects.** (1-0) Cr. 1. F.S.SS. 5 weeks. S. Classroom section spring only. World Wide Web offered fall semester.

**Ent 283.** **Pesticide Applicator Certification.** (Same as Agron 283, For 283, Hort 283, P M 283.) (2-0) Cr. 2. S.

**ENTREPRENEURSHIP**

**Econ 334.** **Entrepreneurship in Agriculture.** (3-0) Cr. 3. S. Prereq: 101.

**Mgmt 310.** **Entrepreneurship and Innovation.** (3-0) Cr. 3. F.S. Prereq: Sophomore classification.

**Mgmt 313.** **Feasibility Analysis and Business Planning.** (3-0) Cr. 3. F.S. Prereq: 310.

**FARM MANAGEMENT**

**AgEdS 450.** **Farm Management and Operation.** (1-6) Cr. 3. F.S.SS. Prereq: Econ 235 and 330, Junior classification.

**Econ 230.** **Farm Business Management.** (2-2) Cr. 3. F.S. Prereq: 101; Acct 284.

**Econ 235.** **Introduction to Agricultural Markets.** (3-0) Cr. 3. F.S. Prereq: 101.

**Econ 332.** **Cooperatives.** (3-0) Cr. 3. S. Prereq: 101.

**Econ 334.** **Entrepreneurship in Agriculture.** (3-0) Cr. 3. S. Prereq: 101.

**Econ 337.** **Agricultural Marketing.** (2-2) Cr. 3. Prereq: 101, 235 recommended.

**Econ 333.** **Advanced Farm Business Management.** (3-2) Cr. 3-4. F. Prereq: 230

**Engl 302.** **Business Communication.** (3-0) Cr. 3. F.S.SS. Prereq: 105, Junior classification.

**Engl 309.** **Report and Proposal Writing.** (3-0) Cr. 3. F.S. Prereq: 105, Junior classification.
INTERNATIONAL AGRICULTURE
AgEdS/Agron/An S/ Econ 496. Agricultural Travel Course. Cr. 1 to 3 each time taken. F.S.S.S.
Prereq: Permission of instructor.
Agron 342. World Food Issues: Past and Present. (Same as Env S 342, FS HN 342, T SC 342, U St 342.) (3-0) Cr. 3. F.S.S.S. Prereq: Junior classification.
Agron 450. Issues in Sustainable Agriculture. (Same as Env S 450.) (3-0) Cr. 3. F.

LIVESTOCK PRODUCTION AND MANAGEMENT
An S 214. Domestic Animal Physiology. (3-0) Cr. 3. F.S. Prereq: Biol 212, Chem 163 or 177.
An S 216. Equine Science. (2-2) Cr. 3. F. Prereq: An S 101 or An S 114; one course in biology.
An S 217. Equine Farm Practicum. (2-2) Cr. 2. F. Prereq: Student majoring in Animal Science, credit in An S 216 or concurrent.
An S 270L. Foods of Animal Origin Laboratory. (0-2) Cr. 1. Prereq: Credit or current enrollment in 270.
An S 305. Livestock Evaluation. (0-6) Cr. 3. F. Prereq: Junior classification; 270L recommended.
An S 306. Equine Evaluation. (0-6) Cr. 3. S. Prereq: sophomore classification or permission of instructor.
An S 312X. Livestock Production for Niche Markets. (2-0) Cr. 3. F. Prereq: Junior classification.
An S 331. Animal Reproduction. (3-0) Cr. 3. F.S. Prereq: Course in physics.
An S 332. Laboratory Methods in Animal Reproduction. (3-0) Cr. 3. F.S. Prereq: Course in physiology.
An S 333. Embryo Transfer and Related Technologies. (2-0) Cr. 2. F. S. Prereq: Credit or concurrent enrollment in 333; 332 or VDPAM 416; permission of instructor.
An S 334. Embryo Transfer Laboratory. (0-3) Cr. 1. F. Prereq: Credit or concurrent enrollment in 333, 332 or VDPAM 416; permission of instructor.
An S 352. Genetic Improvement of Domestic Animals. (2-2) Cr. 3. F.S. Prereq: One course in statistics, Biol 211, course in genetics.
An S 360. Fresh Meats. (2-2) Cr. 3. F. Prereq: 270; a course in organic or biochemistry.
An S 425. **Swine Systems Management.** (2-2) Cr. 3. F.S. Prereq: 225, 270, 319, 320, 331, 352; Econ 230 or equivalent recommended.

An S 426. **Beef Cattle Systems Management.** (2-2) Cr. 3. F.S. Prereq: 226, 270, 319, 320, 331, 352; Econ 230 or equivalent recommended.

An S 434. **Dairy Systems Management.** (2-2) Cr. 3 F.S. Prereq: 225, 270, 319, 320, 331, 352; Econ 230 or equivalent recommended.

TSM 327. **Animal Production Systems.** (3-0) Cr. 3. F. Prereq: 210.

Ent 201. **Introduction to Insects.** (1-0) Cr. 1. F.S.SS. 5 weeks. Classroom section spring only. World Wide Web section offered summer and fall semester.

Ent 211. **Insects and Society.** (3-0) Cr. 2. F.S. 11 weeks. S. Classroom section spring only. World Wide Web section offered fall semester. Prereq: 201.

Ent. 372. **Livestock Entomology.** (2-0) Cr. 2. Alt. S., offered 20013.

**Natural Resources Conservation**

NREM 130. **Natural Resources and Agriculture.** (3-0) Cr. 3. S.

Agron 260. **Soils and Environmental Quality.** (3-0) Cr. 3. F.S.

Agron 360. **Environmental Soil Science.** (Same as EnSci 360). (2-3) Cr. 3. S. Prereq: Agron 260 or Geol 100 or 201.

Agron 450. **Issues in Sustainable Agriculture.** (Same as Env S 450.) (3-0) Cr. 3. F.

Agron 497. **Agroecology Field Course.** (3-0) Cr. 3. F. Prereq: Junior or senior classification with at least eight credits of Agronomy.

TSM 324. **Soil and Water Conservation Management.** (2-3) Cr. 3. S. Prereq: Math 140 or 160.

Biol 173. **Environmental Biology.** (Same as Env S 173.) (3-0) Cr. 3. F.S.

Biol 312. **Ecology.** (Same as A Ecl 312, EnSci 312.) (3-3) Cr. 3. F.S. Prereq: 211L and 212L.

Env S 101. **Environmental Geology: Earth in Crisis.** (Same as Geol 101.) (3-0) Cr. 3. F.S.

Env S 173. **Environmental Biology.** (Same as Biol 173.) (3-0) Cr. 3. F.S.

NREM/Agron/AST/Env S 120. **Introduction to Renewable Resources.** (3-0) Cr. 3. F.S.

NREM 390. **Fire Ecology and Management.** (3-0) Cr. 3. F.

**Pest Management**

Ent 201. **Introduction to Insects.** (1-0) Cr. 1. F.S.SS. 5 weeks. S. Classroom section spring only. World Wide Web section of course offered summer and fall semesters.

Ent 211. **Insects and Society.** (2-0) Cr. 2. F.S. Prereq: 201. 11 weeks. Classroom section spring only. World Wide Web section offered fall semester.

Ent 283. **Pesticide Applicator Certification.** (Same as Agron 283, For 283, Hort 283) (2-0) Cr. 2. S.

Ent 370. **Insect Biology.** (2-3) Cr. 3. F. Prereq: Biol 101 or 201.


Ent 374. **Insects and Our Health.** (Same as Micro 374.) (3-0) Cr. 3. S. Prereq: 3 credits in biological sciences.

Ent 376. **Fundamentals of Entomology and Pest Management.** (2-3) Cr. 3. S. Prereq: Biol 101 or 211.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester(s)</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hort 121</td>
<td>Home Horticulture</td>
<td>2-0</td>
<td>F.S.</td>
<td></td>
</tr>
<tr>
<td>Hort 122</td>
<td>Hands-On Home Horticulture</td>
<td>1-0</td>
<td>F.S.</td>
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<tr>
<td>Hort 221</td>
<td>Principles of Horticulture</td>
<td>2-2</td>
<td>F.S.</td>
<td>Biol 211 or concurrent enrollment.</td>
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<tr>
<td>Hort 240</td>
<td>Trees, Shrubs, and Woody Vines for Landscaping</td>
<td>3-0</td>
<td>F.</td>
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<tr>
<td>Hort 283</td>
<td>Pesticide Application Certification</td>
<td>2-0</td>
<td>S.</td>
<td>Ent 283</td>
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<tr>
<td>Hort 322</td>
<td>Plant Propagation</td>
<td>2-2</td>
<td>S.</td>
<td>Hort 221 or Biol 211</td>
</tr>
<tr>
<td>Hort 330</td>
<td>Herbaceous Ornamental Plants</td>
<td>2-2</td>
<td>F.</td>
<td>Hort 221 or by permission of instructor.</td>
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<tr>
<td>Hort 332</td>
<td>Greenhouse Operation, Management and Crop Production I.</td>
<td>3-3</td>
<td>F.</td>
<td>Hort 221</td>
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<tr>
<td>Hort 341</td>
<td>Woody Plant Cultivars: Shade Trees, Ornamental Trees and Woody Shrubs</td>
<td>2-0</td>
<td>S.</td>
<td>Hort 240 or L A 221 or L A 222.</td>
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<tr>
<td>Hort 342</td>
<td>Landscape Installation and Establishment</td>
<td>2-0</td>
<td>F.</td>
<td>Hort 240 or L A 221 or L A 222.</td>
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<tr>
<td>Hort 351</td>
<td>Turfgrass Establishment and Management</td>
<td>3-0</td>
<td>F.</td>
<td>Hort 221 or Agron 114 or Biol 211</td>
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<tr>
<td>Hort 351L</td>
<td>Turfgrass Establishment and Management Laboratory</td>
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**Communication and Journalism**

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<th>Credits</th>
<th>Semester(s)</th>
<th>Prerequisites</th>
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<td>Advrt 230</td>
<td>Advertising Principles</td>
<td>3-0</td>
<td>F.S.</td>
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<tr>
<td>Advrt 301</td>
<td>Research Strategic Planning for Advertising and Public Relations</td>
<td>3-0</td>
<td>F.S.</td>
<td>Advrt 230 or Jl MC 220; sophomore classification.</td>
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<tr>
<td>Advrt 334</td>
<td>Advertising Creativity</td>
<td>2-2</td>
<td>F.S.</td>
<td>C+ or better in Jl MC 201; Advrt/Jl MC 301.</td>
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<tr>
<td>Advrt 335</td>
<td>Advertising Media Planning</td>
<td>3-0</td>
<td>F.S.</td>
<td>C+ or better in Jl MC 201; Advrt/Jl MC 301.</td>
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<tr>
<td>AgEdS 327</td>
<td>Advanced Communications for Agriculture &amp; Life Sciences</td>
<td>2-2</td>
<td>F.S.</td>
<td>English 250 or equivalent.</td>
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<td>ComSt 101</td>
<td>Introduction to Communication Studies</td>
<td>3-0</td>
<td>F.S.</td>
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</tr>
<tr>
<td>ComSt 102</td>
<td>Introduction to Interpersonal Communication</td>
<td>3-0</td>
<td>F.S.</td>
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<td>ComSt 214</td>
<td>Professional Communication</td>
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<td>F.S.</td>
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<tr>
<td>ComSt 218</td>
<td>Conflict Management</td>
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<td>ComSt 301</td>
<td>Human Communication Theory</td>
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<tr>
<td>ComSt 314</td>
<td>Organizational Communication</td>
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<td>ComSt 317</td>
<td>Small Group Communication</td>
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<td>Prereg: 101, 102, 203, 301.</td>
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<td>Prereg: 101, 102, 203, 301.</td>
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<tr>
<td>Engl 205</td>
<td>Popular Culture Analysis</td>
<td>3-0</td>
<td>F.S.</td>
<td>Prereg: credit or exemption from 150.</td>
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<td>Engl 303</td>
<td>Free-Lance Writing for Popular Magazines</td>
<td>3-0</td>
<td>S.</td>
<td>Prereg: 250, not open to Freshmen.</td>
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Engl 304. **Creative Writing-Fiction.** (3-0) Cr. 3. F.S. Prereq: 250, not open to Freshmen.
Engl 305. **Creative Writing-Nonfiction.** (3-0) Cr. 3. F.S. Prereq: 250, not open to Freshmen.
Engl 309. **Report and Proposal Writing.** (3-0) Cr. 3. F.S. Prereq: 250, Junior classification.
Engl 313. **Rhetorical Website Design.** (3-0) Cr. 3. F.S. Prereq: 250.
Engl 314. **Technical Communication.** (3-0) Cr. 3. F.S.SS. Prereq: 250, Junior classification.
Engl 415. **Business and Technical Editing.** (3-0) Cr. 3. S. Prereq: 302, 309, or 314, Junior classification.
Engl 418. **Seminar in Argumentation.** (3-0) Cr. 3. S. Prereq: 310, Junior classification.
Jl MC 101. **Mass Media and Society.** (3-0) Cr. 3 F.S.
Jl MC 201. **Reporting and Writing for the Mass Media.** (1-4) Cr. 3. F.S. Prereq: English 250 (or testout) and either a score of 26 or higher on the ACT-English exam, 590 or higher on the SAT verbal exam, or a passing score on the School’s English usage exam.
Jl MC 202. **Intermediate Reporting and Writing for the Mass Media.** (2-2) Cr. 3. F.S. Prereq: 201 with a grade of C+ or better.
Jl MC 206. **Reporting and Writing for the Electronic Media.** (2-3) Cr. 3. F.S. Prereq: 201 with a grade of C+ or better.
Jl MC 220. **Principles of Public Relations.** (3-0) Cr. 3. F.S.
Jl MC 301. **Research and Strategic Planning for Advertising and Public Relations.** (2-0) Cr. 3. F.S. Prereq: Advrt 230 or JlMC 220.
Jl MC 305. **Publicity Methods.** (3-0) Cr. 3. F.S. Prereq: Engl 250, Sophomore classification.
Jl MC 310. **Fundamentals of Photojournalism.** (1-3) Cr. 3. F.S. Prereq: 201.
Jl MC 321. **Public Relations Writing.** (2-3) Cr. 3. F.S. Prereq: C+ or better in 201; 220, or Advrt 230 and 342 and 342L or computer design proficiency recommended.
Jl MC 342L. **Laboratory in Basic Visual Principles.** (2-2) Cr. 3. Prereq: Credit or enrollment in 342.
Sp Cm 110. **Listening.** (3-0) Cr. 3. F.S.
Sp Cm 312. **Business and Professional Speaking.** (3-0) Cr. 3. F.S. Prereq: 212.
Sp Cm 322. **Argumentation, Debate, and Critical Thinking.** (3-0) Cr. 3. F.S. Prereq: 212.
Sp Cm 327. **Persuasion.** (3-0) Cr. 3. F.S.SS. Prereq. 212.

**FREE ELECTIVES**
An S 360. **Fresh Meats.** (2-2) Cr. 3. F. Prereq: 270; a course in organic or biochemistry.
Astro 120. **The Sky and the Solar System.** (3-0) Cr. 3. F.S.SS.
Biol 155. **Human Biology.** (3-0) Cr. 3. F.S.
Com S 103. **Computer Applications.** Cr. 4. F.S.SS.
ComSt 101. **Introduction to Communication Studies.** (3-0) Cr. 3. F.S.
ComSt 102. **Introduction to Interpersonal Communication.** (3-0) Cr. 3. F.S.
ComSt 214. **Professional Communication.** (3-0) Cr. 3.
Engl 201. **Introduction to Literature.** (3-0) Cr. 3. F.S. Prereq: Credit in or exemption from 150.
Engl 205. **Popular Culture Analysis.** (3-0) Cr. 3. F. Prereq: Credit in or exemption from 150.
Engl 302. **Business Communication.** (3-0) Cr. 3. F.S.SS. Prereq: 250, Junior classification.
Engl 309. **Report and Proposal Writing.** (3-0) Cr. 3. F.S. Prereq: 250, Junior classification.
Engl 314. **Technical Communication.** (3-0) Cr. 3. F.S.SS. Prereq: 250, Junior classification.
Fs Hn 101.  **Food and the Consumer.**  (3-0) Cr. 3. F.S.  Prereq: High School biology and chemistry or 3 credit each of biology and chemistry.

Fs Hn 167.  **Introduction to Human Nutrition.**  (3-0) Cr. 3. F.S.SS.  Prereq: High school biology or 3 credits of biology.

Geol 100.  **The Earth.**  (3-0) Cr. 3. F.S.SS.

Geol 101.  **Environmental Geology: Earth in Crisis.**  (Same as Env S 101).  (3-0) Cr. 3. F.S.

H S 105.  **First Aid and Emergency Care.**  (1-2) Cr. 2. F.S.

H S 110.  **Personal and Consumer Health.**  (3-0) Cr. 3. F.S.

H S 215.  **Drug Education.**  (3-0) Cr. 3. Prereq: Psych 101 or 230.


Hist 366.  **History of American Agriculture II.**  (3-0) Cr. 3. S.  Prereq: Sophomore classification.

HD FS 102.  **Individual and Family Life Development.**  (3-0) Cr. 3. F.S.SS.

HD FS 276.  **Human Sexuality.**  (3-0) Cr. 3. F.S.

HD FS 283.  **Personal and Family Finance.**  (3-0) Cr. 3. F.S.SS.

Hort 121.  **Home Horticulture.**  (2-0) Cr. 2. F.S.

Hort 122.  **Hands-On Home Horticulture.**  (1-0) Cr. 1. F.S.

Jl MC 101.  **Mass Media and Society.**  (3-0) Cr. 3. F.S.

M S 101.  **Introduction to Military Science.**  (1-0) Cr. 1. F.  Prereq: Concurrent enrollment in M S 101L required.

M S 101L.  **Basic Leadership Laboratory I.**  (0-2) Cr. 1. F.  Prereq: Concurrent enrollment in M S 101 required.

M S 201.  **Principles of Leadership and Communication Skills.**  (2-0) Cr. 2. F.  Prereq: Concurrent enrollment in 201L required.

Music 102.  **Introduction to Music Listening.**  (3-0) Cr. 3. F.S.SS.

Pol S 215.  **Introduction to American Government.**  (3-0) Cr. 3. F.S.SS.

Psych 101.  **Introduction to Psychology.**  (3-0) 3 Cr.  F.S.SS.

Relig 205.  **Introduction to World Religions.**  (3-0) 3 Cr.  F.S.SS.

Soc 130.  **Rural Institutions and Organizations.**  (3-0) Cr. 3. F.S.

Soc 134.  **Introduction to Sociology.**  (3-0) Cr. 3. F.S.SS.

Soc 219.  **Sociology of Intimate Relationships.**  (3-0) Cr. 3. F.S.SS.  Prereq: 130 or134.

Sp Cm 110.  **Listening.**  (3-0) Cr. 3. F.S.

Thtre 106.  **Introduction to the Performing Arts.**  (3-0) Cr. 3. F.S.SS.

Thtre 110.  **Theatre and Society.**  (3-0) Cr. 3. F.S.

(2013-2014 ISU Catalog)
FARM OPERATIONS CLUB

The Farm Operations Club is a traditional ISU club that offers its member many opportunities. The club mainly attracts about 70 from the College of Agriculture & Life Sciences, especially students in the Agricultural Studies, Agricultural Education, Agronomy, Agricultural Business, and Animal Science majors, but is open to anyone interested in agriculture. Students describe the club as "relaxed" and not too competitive – except of course during Ag Week (the club won in 2001, 2002, 2003, and 2004)! The young men and women in the club typically gather for meetings at the "Ag450 Farm," a real ISU working farm close to campus (don't worry, we can get you a ride) or at the Agronomy Building. BBQ, a fall trip, service projects at the farm, hayrides, a banquet, and the VEISHA Food Stand – these are fun because of the great people who show up and participate. And that could be you! Transfers and freshman are especially welcome and are treated well by upper division students. Bring an interest in agriculture and yourself. Look for signs or the Farm Op newsletter in the fall to learn how to join or talk to the adviser, Ben Chamberlain.

In Spring 2003, the Farm Op Club elected to affiliate with the Post-Secondary Agriculture (PAS) student organization. This provides even more opportunities for students to develop both leadership and technical agriculture skills. In 2009, the ISU PAS team won the National Quiz Bowl competition in addition to several other team and individual awards.
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Agricultural Studies Curriculum Sheet

2014-2015 Requirements for the Bachelor of Science Degree

<table>
<thead>
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<th>Credit</th>
<th>Dept</th>
<th>Course No.</th>
<th>Course Title</th>
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<td></td>
<td><strong>International Perspectives &amp; U.S. Diversity</strong></td>
</tr>
<tr>
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<td></td>
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<td>International Perspectives Select from approved list (see back)</td>
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<tr>
<td>3</td>
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<td>U.S. Diversity Select from approved list (see back)</td>
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**Interpersonal & Public Communication Skills**

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<td>Engl</td>
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<td>Critical Thinking and Communication</td>
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<td>250</td>
<td>Written, Oral, Visual, and Electronic Communication</td>
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<td>327**</td>
<td>Advance Communications for Agriculture and the Life Sciences</td>
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<td>Presentations and Sales Strategies for Agricultural Audiences</td>
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<td>1</td>
<td>Lib</td>
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**Humanities, Ethics and Social Sciences**

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<td>Principles of Microeconomics</td>
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<td>Humanities Elective</td>
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**Ethics**

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**Math, Physical & Life Sciences**

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<td>Math</td>
<td>104 or 150</td>
<td>Intro to Probability &amp; Matrices or Discrete Math for Business &amp; Social Sci</td>
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<td>3</td>
<td>Stat</td>
<td>104</td>
<td>Introduction to Statistics</td>
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<td>Biol</td>
<td>101</td>
<td>Introductory Biology</td>
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<td>Phys</td>
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<td>Physics for the Non Scientist</td>
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<td>3</td>
<td>BBMB</td>
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<td>Biochemical Processes</td>
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**Agriculture Sciences and Economics**

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<td>AgEdS</td>
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<td>Career Seminar</td>
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<td>Personal and Professional Leadership in Agriculture</td>
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<td>AgEdS</td>
<td>450</td>
<td>Farm Management and Operation</td>
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<td>Agricultural Law</td>
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<td>Agron</td>
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<td>Principles of Agronomy</td>
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<td>Crop Growth, Productivity and Management</td>
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<td>Field App/Problem Solving in Crop Production</td>
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<td>101</td>
<td>Working with Animals</td>
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<td>114</td>
<td>Survey of the Animal Industry</td>
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<td>Econ</td>
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<td>Farm Business Management</td>
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<td>Introduction to Agricultural Markets</td>
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<td>Entrepreneurship in Agriculture</td>
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<td>NREM</td>
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<td>Introduction to Renewable Resources or Natural Resources &amp; Agriculture</td>
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**Other Required Courses**

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<tr>
<td>3</td>
<td>Acct</td>
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<td>Financial Accounting</td>
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**Free Electives**

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Total credits

A total of 128 credits and a 2.00 grade point average are required for a Bachelor of Science (B.S.) Degree

* English proficiency requires a C or better in 6 credits of written communication, 3 credits of speech and successful completion of Lib 160.

** Website address with complete list on back.
International Perspectives Requirements:
Approved Courses List
http://www.registrar.iastate.edu/students/div-ip-guide/ip-list

U.S. Diversity Requirements:
 Approved Courses List
http://www.registrar.iastate.edu/students/div-ip-guide/usdiversity-courses

AgEdS 327 Requirement
Students can choose to take AgEdS 327 OR:
Engl 302, 303, 304, 305, 306, 309, 314, JLMC 201, 305

Humanities Elective
For a complete list refer to
http://www.agstudent.iastate.edu/agriculturestudentservices/humanities.htm

Ethics Elective:
Approved Courses List
http://www.agstudent.iastate.edu/agriculturestudentservices/ethicslist.html
# Iowa State University
## College of Agriculture

### Agricultural Studies Eight Semester Plan

#### 2014 - 2015 Catalog

<table>
<thead>
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<th>Semester 1</th>
<th>Semester 2</th>
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<tr>
<td>AgEds 110B</td>
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<td>Intro Biology</td>
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<td>Elective</td>
</tr>
<tr>
<td>16</td>
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</tr>
</tbody>
</table>

**Total Credits:** 128

A 2.00 grade point average is required.
Introduction

The primary goal of the Agriculture and Life Sciences Education program is to provide each student with a strong foundation in agricultural sciences and interpersonal communication skills. Two options are available through this major: teacher certification and communications. Depending on the option, degree requirements will vary.

To receive a degree in either option of Agriculture and Life Sciences Education, a student is required to complete courses in four major areas: agricultural sciences and economics, general university requirements, professional requirements and free electives. The four major areas are described below for each of the options.

AGRICULTURE AND LIFE SCIENCES EDUCATION: COMMUNICATION OPTION

Agricultural Sciences and Economics (32 Credits)

Students who select the communications option have a great deal of flexibility in this area. Through this option, students will select three different areas of emphasis in agriculture. In one of these areas, students will take a minimum of 10 credits, six of which must be 300-400 level. The other two areas will have a minimum of 6 credits (two courses). That leaves each student with 10 credits to take in any agricultural sciences and economics area of his/her choice.

Additional agricultural courses taken will depend on whether a student wants to diversify or specialize. Most students diversify by completing courses in five core agricultural areas, namely: agronomy, animal science, agricultural systems technology (AST), agricultural economics, and horticulture. Diversifying has the advantage of providing a student with a well-balanced foundation in agriculture that can be supplemented with electives. Since many agricultural occupations involve some aspect of all these areas, it is generally beneficial for a student to develop a good broad-based background from which to work.

Some students are interested in a more in-depth study of a particular core area; therefore, specializing may fulfill their needs. If a student chooses to specialize, he/she would concentrate on a specific agricultural sector and take more courses in that area. For example, a student may want to focus on animal science, therefore, taking more course work in it and less in the other agriculture-related areas. This choice provides the opportunity to become more proficient and better prepared in a specific area.
General Education Requirements (50.5 – 51.5)

All ISU students are required to complete selected basic Iowa State University and College of Agriculture and Life Sciences Core Curriculum. Since the University and College establish these core requirements, they are essentially the same regardless of your major in the College.

The following are the credit requirements for the core curriculum:

- 10 credits in Interpersonal & Public Communication Skills
- 23-24 credits in Math, Physical & Life Sciences
- 18 credits in Humanities, Ethics, International Perspectives, U.S. Diversity and Social Sciences

For more information regarding the specific requirements within each of these core areas, please refer to the Agriculture and Life Sciences Education – Communication curriculum sheet (on the following page) or the appropriate Iowa State University Catalog.

Professional Requirements (32.5)

The Communications Option of the Agriculture and Life Sciences Education Degree can be tailor-made depending on the area of interest of the individual student. Students are able to select communication courses from the following departments: Agricultural Education and Studies, Journalism and Mass Communications, English, Management, Speech Communications, Communication Studies, Marketing, and others in consultation with their academic adviser. The curriculum sheet and the ISU Catalog do provide a list of courses in each of these departments that fulfill these professional requirements. Please refer to these for further information.

An internship (AgEdS 412) directly related to agricultural communications is required of this major. Former students have accepted internships with producer groups and organizations, advertising firms, agricultural publication companies like magazines and newspapers, as well as extension and private firms where they develop a variety of material and publications. Be aware that an appropriate Early Field-Based Experience (AgEdS 211) is required prior to the internship. Appropriate planning must be made in order to meet these requirements. Please refer to the Internship portion of this handbook for more information on internships and the early field-based experience.
### Agricultural and Life Sciences Education Curriculum Sheet – Communications Option
#### 2014-2015 Requirements for the Bachelor of Science Degree

<table>
<thead>
<tr>
<th>Credit</th>
<th>Dept</th>
<th>Course No.</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Inter</td>
<td>150</td>
<td>Critical Thinking and Communication</td>
</tr>
<tr>
<td>3</td>
<td>Inter</td>
<td>250</td>
<td>Written, Oral, Visual, and Electronic Composition</td>
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<tr>
<td>5</td>
<td>Engl</td>
<td>302, 309, 314</td>
<td>Business/Technical Communication</td>
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<td>3</td>
<td>AgEds</td>
<td>311</td>
<td>Presentation and Sales Strategies for Agricultural Audiences</td>
</tr>
<tr>
<td>1</td>
<td>Lib</td>
<td>160</td>
<td>Library Instruction</td>
</tr>
</tbody>
</table>

| 20     | Math, Physical, & Life Sciences | Chem | 163 & 163L | General Chemistry |
| 5      | Math | 104 or 150 | Intro to Probability and Matrices/Discrete Math for Business and Social Sciences |
| 3      | Biol  | 211        | Principles of Biology I |
| 3      | Biol  | 212        | Principles of Biology II |
| 3      | Stat  | 104        | Introduction to Statistics |
| 3      | Life Science Elective | Select from approved list (see back) |

| 9      | Humanities and Social Sciences | Psychology Elective | Any level |
| 3      | Econ  | 101 or 102 | Principles of Microeconomics or Macroeconomics |
| 3      | Humanities Elective | Select from approved list (see back) |

| 3      | Ethics | Ethics Elective | Select from approved list (see back) |

| 32     | Agricultural Sciences and Economics | Any level |
| 3      | Agriculture Electives | Select from approved list (see back) |

| 33     | Professional Communications | AgEds 110A | Orientation |
| 1      | AgEds 211 | Early Field-Based Experience |
| 1      | AgEds 215 | Career Seminar |
| 3      | AgEds 315 | Personal and Professional Leadership in Agriculture |
| 6      | AgEds 412 | Internship in Agricultural Education & Studies |

| 21     | Restricted Electives | Select from: |
|        |                    | JLMC 101, 321, 342, 347; Engl 205, 302, 309, 310, 314, 411, 415, 416; Mgmt 310, 370, 371; SpCu 110, 212, 312, 323, 327; Advrt 230, Mkt 340; Com St 102, 214, 310, 314, 317 |

| 12     | Free Electives | |
| 128    | Total Credits | |

A total of 128 credits and a 2.00 grade point average are required for a Bachelor of Science degree.

* English proficiency requires a C or better in 6 credits of written communication, 3 credits of speech and successful completion of Lib 160.

** Website address with complete list on back.
Agriculture and Life Sciences Education Curriculum – Communications Option
2014-2015 Requirements for the Bachelor of Science Degree

Prerequisite courses may be required or recommended for some courses.

International Perspectives Requirements:
Approved Courses List
http://www.registrar.iastate.edu/students/div-ip-guide/ip-list

U.S. Diversity Requirements:
Approved Courses List
http://www.registrar.iastate.edu/students/div-ip-guide/usdiversity-courses

Humanities Elective
For a complete list refer to
http://www.agstudent.iastate.edu/agriculturestudentservices/humanities.htm

Ethics Elective:
Approved Courses List
http://www.agstudent.iastate.edu/agriculturestudentservices/ethicslist.html

Life Science Electives
Approved Courses List
http://www.agstudent.iastate.edu/agriculturestudentservices/ethicslist.html

Agricultural Sciences and Economics Areas (32 Credits):
Select from departments of An S, Agron, AST, Ent, For, Hort, FSHN, NREM
or the following Ag Econ courses: Econ 235, 330, 332, 336, 430, 451

Approved Restricted Electives in Communication:
JL MC 101, 321, 342, 347; Engl 205, 302, 309, 310, 314, 411, 415, 416;
Mgmt 310, 370, 371; Sp CM 110, 212, 312, 323, 327; Advrt 230; Mkt 340;
Com St 102, 214, 310, 314 & 317

Note: A single course cannot count in more than one area. If a course meets more than one
requirement, the student may choose which requirement the course will fulfill.
<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
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<tbody>
<tr>
<td>AgEd 120A</td>
<td>Orientation</td>
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<tr>
<td>Ag Elective</td>
<td>Technical Agricultural Elective</td>
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<td>Biol 211</td>
<td>Principles of Biology I</td>
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<td>Engl 150</td>
<td>Critical Thinking and Communication</td>
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<tr>
<td>Lib 100</td>
<td>Library Instruction</td>
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<td>Math 154 or 160</td>
<td>Intro Prob &amp; Matrices or Math for Bus</td>
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<tr>
<td>Econ 101 or 102</td>
<td>Principles of MicroEconomics or Macro</td>
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<table>
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<td>General Chemistry &amp; Lab</td>
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<tr>
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<td>Prof Communications Elect (from list)</td>
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<tr>
<td>Ag Elective</td>
<td>Technical Agricultural Elective</td>
</tr>
<tr>
<td>Ethics Elective</td>
<td>Ethics Elective</td>
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<tr>
<td>Stat 104</td>
<td>Introduction to Statistics</td>
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<td>Personal &amp; Professional Leadership</td>
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<tr>
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<td>General Elective</td>
</tr>
<tr>
<td>17</td>
<td>AgEds 327</td>
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</table>

*In addition, students would have to meet requirements in the following areas: Total Credits 128

Select one technical agricultural area in which you will complete at least 10 credits (6 of these must be 300-400 level courses)
Select two other technical agricultural areas in which you will complete at least 6 credits (2 courses) in each area
A 2.0 grade point average is required
AGRICULTURAL COMMUNICATORS OF TOMORROW (ACT) CLUB

ACT is the only student organization of its kind within the agricultural communications field. It is designed for college students who have a professional interest in the field of communications related to agriculture. Membership is open to anyone who is interested in an agricultural communications career. The National Agricultural Communicators of Tomorrow site (http://nact.okstate.edu/) has additional information and helpful links.

During the fall 2005 semester, a group of Agricultural Education Communication option majors met to discuss the possibility of affiliation with a professional organization that focuses on the field of communications. After a couple of organizational meetings, the group elected to begin the process of joining ACT. Dr. Robert Martin serves as the faculty adviser and Dr. Awoke Dollisso and Ms. Virginia Hansen serve as the assistant advisers for the club.

ACT Objectives:
ACT membership allows participants the opportunity to:

- foster career development among future agricultural communicators.
- stimulate interest in and promote careers in the agricultural industry.
- acquire leadership experience.
- be informed of current developments in the field of agricultural communications.
- make professional contacts.
- invigorate campus-level activities and programs.
- recognize, encourage, and reward professional excellence and growth.

What can ACT do for you?
Through ACT, you will meet students with similar career interests. ACT provides its members with a broad network of professional contacts who help guide you in attaining of a top-notch communications career. Other benefits of membership include:

- internship network
- Newsletters
- professional contacts
- intercollegiate competitions
- national conferences with professional associates
- public speaking experiences
- interviewing practice
- Scholarships
- exchange of ideas and information among other students
AGRICULTURE AND LIFE SCIENCES EDUCATION (Teacher Certification)
DEGREE REQUIREMENTS

Introduction

The primary goal of the Agriculture and Life Sciences Education program is to provide each student with a strong foundation in agricultural sciences and interpersonal communication skills. Two options are available through this major: teacher certification and communications. Depending on the option, degree requirements will vary.

To receive a degree in either option of Agriculture and Life Sciences Education, a student is required to complete courses in four major areas: agricultural sciences and economics, general university requirements, professional requirements and free electives. The four major areas are described below for each of the options.

AGRICULTURE AND LIFE SCIENCES EDUCATION: CERTIFICATION OPTION

Agricultural Sciences and Economics (31 Credits)
The basic core for teacher certification students includes the following courses:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Credits</th>
<th>Course #</th>
<th>Credits</th>
<th>Course #</th>
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<td>AgEdS 488</td>
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<td>Agron 154</td>
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<td>Econ 230</td>
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<td>2</td>
<td>An S 101</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

The elective agricultural courses students generally take will depend on whether they want to diversify or specialize. Students diversify by completing courses in five of the following core agricultural areas, namely: agronomy, animal science, agricultural mechanics, agricultural economics, food science, environmental/natural resources, and horticulture. Diversifying has the advantage of providing you with a well-balanced foundation in agriculture that can be supplemented with electives. Since many agricultural education departments vary throughout the state, it is generally beneficial for a student to develop a good agricultural foundation from which to teach.

However, some students choose a more in-depth study of a particular interest area. In this case, specializing fulfills their needs. For example, a student may want to focus on animal science; therefore, taking more course work in it and less in the other agricultural areas. This choice provides you the opportunity to become more proficient and better prepared in a specific area.
General Education Requirements (47)
All ISU students are required to complete selected basic Iowa State University and College of Agriculture and Life Sciences Core Curriculum. Since the University and College establish these core requirements, they are essentially the same regardless of your major in the College. The requirement list below meets University requirements for an undergraduate. Because of this, it must be strictly adhered to.

The following are the credit requirements for the core curriculum:
- 10 credits in Interpersonal & Public Communication Skills
- 19 credits in Math, Physical & Life Sciences
- 9 credits in Humanities and Social Sciences
- 6 International Perspectives and U.S. Diversity
- 3 Ethics

For more information regarding the specific requirements of within each of these core areas, please refer to the Agriculture and Life Sciences Education – Certification Curriculum Sheet or the appropriate Iowa State University Catalog.

Professional Requirements (37.5 Credits)
The professional requirements for the teacher certification option consist of the pre-professional teacher education courses that prepare individuals to become proficient educators. These courses are taken through both the Department of Curriculum and Instruction in the College of Education and the Department of Agricultural Education and Studies in the College of Agriculture and Life Sciences. In the spring semester of the student’s senior year, he/she will complete a minimum of 14 weeks of supervised student teaching in a high school Agricultural Education Program. This is the culmination of the student’s pre-professional course work and the initiation to the teaching profession.

Other Requirements for Teacher Certification
Because of the State of Iowa Licensure requirements and the process of applying and admission to the ISU Teacher Education Program, students need to stay current on the specific requirements for their degree. Each student must be aware that although he/she may meet the degree requirements of the University to graduate with a degree in Agriculture and Life Sciences Education, he/she must also meet the requirements of the State as outlined by the Board of Educational Examiners. By carefully following the advice of their specific academic adviser and keeping current on changes, each student will meet the State requirements upon earning the Bachelor of Science Degree.

An example of this matter is the American History or Government requirement. There are specific courses at ISU that meet this requirement. A current list of these requirements can be found on the back of the curriculum sheet. However, this list can change (courses added or deleted) at any time. Therefore, it is recommended that students refer to the Teacher Education Handbook for the most current information.

The Teacher Education Handbook and other related references are now available electronically. They are kept current and it is recommended that students refer to these sites regularly. Below are a list of references and their URL.
AgEdS Teacher Education Website
For the most up-to-date agricultural teacher education information and policies:
http://www.ageds.iastate.edu/teachered.html

University Teacher Education Website
For the most current and detailed information regarding Teacher Education requirements:
http://www.teacher.hs.iastate.edu/

Other Endorsements in Teacher Education
Students majoring in Agriculture and Life Sciences Education can obtain endorsements in other areas as well. The requirements for additional endorsements vary depending on the requirements of the particular endorsement and the individual course work completed by the student. It is best to work closely with an academic adviser to ensure proper course work is completed for the endorsement. You may want to reference: http://www.state.ia.us/boee/seeking_other.html.
Standards for University Teacher Education Candidates

Before Iowa State University’s Department of Agricultural Education and Studies approves of your application for a teaching license, you must demonstrate an acceptable level of performance on the following teacher education standards. Each candidate will exhibit competency in all of the following standards:

1. **Content/subject matter specialization.** The candidate demonstrates an understanding of the central concepts, tools of inquiry, and structure of the discipline(s) the candidate teaches, and creates learning experiences that make these aspects of the subject matter meaningful for students. This is evidenced by completion of a 30-semester-hour teaching major which must minimally include the requirements for at least one of the basic endorsement areas, special education teaching endorsements, or secondary level occupational endorsements. Each elementary candidate must also complete a field of specialization in a single discipline or a formal interdisciplinary program of at least 12 semester hours.

2. **Student learning.** The candidate demonstrates an understanding of human growth and development and of how students learn, and receives learning opportunities that support intellectual, career, social and personal development.

3. **Diverse learners.** The candidate demonstrates an understanding of how students differ in their approaches to learning and creates instructional opportunities that are equitable and adaptable to diverse learners.

4. **Instructional planning.** The candidate plans instruction based upon knowledge of subject matter, students, the community, curriculum goals, and state curriculum models.

5. **Instructional strategies.** The candidate demonstrates an understanding and use of a variety of instructional strategies to encourage students’ development of critical and creative thinking, problem-solving, and performance skills.

6. **Learning environment/classroom management.** The candidate uses an understanding of individual and group motivation and behavior; creates a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation; maintains effective classroom management; and is prepared to address behaviors related to substance abuse and other high-risk behaviors.

7. **Communication.** The candidate uses knowledge of effective verbal, nonverbal, and media communication techniques, and other forms of symbolic representation, to foster active inquiry, collaboration, and support interaction in the classroom.

8. **Assessment.** The candidate understands and uses formal and informal assessment strategies to evaluate the continuous intellectual, social, and physical development of the student, and effectively uses both formative and summative assessment of students, including student achievement data, to determine appropriate instruction.
9. **Foundations, reflective practice and professional development.** The candidate develops knowledge of the social, historical, and philosophical foundations of education. The candidate continually evaluates the effects of the candidate's choices and actions on students, parents, and other professionals in the learning community; actively seeks out opportunities to grow professionally; and demonstrates an understanding of teachers as consumers of research and as researchers in the classroom.

10. **Collaboration, ethics and relationships.** The candidate fosters relationships with parents, school colleagues, and organizations in the larger community to support students learning and development; demonstrates an understanding of educational law and policy, ethics, and the profession of teaching, including the role of boards of education and education agencies; and demonstrates knowledge and dispositions for cooperation with other educators, especially in collaborative/co-teaching as well as in other educational team situations.

11. **Technology.** The candidate effectively integrates technology into instruction to support student learning.

12. **Methods of teaching.** Methods of teaching have an emphasis on the subject and grade level endorsement desired.
PROCEDURES FOR ADMISSION TO ISU’S TEACHER EDUCATION
Department of Agricultural Education & Studies

Students in Iowa State University’s Agriculture and Life Sciences Education who wish to pursue a program leading to a teaching certificate must be formally admitted to the Teacher Education Program. You are responsible, with the assistance of your academic adviser, for initiating procedures for admission. For the latest information regarding admission requirements, procedures and forms, please refer to the ISU teacher education web site (http://www.teacher.hs.iastate.edu/).

For additional information about teacher education:

1. Talk to your academic adviser.
2. Visit the College of Human Sciences Teacher Education Website at: www.teacher.hs.iastate.edu
In fall 2007, the University Teacher Education Program Office implemented a checkpoint system to monitor the progress of teacher education students. There are a total of three checkpoints.

The University Teacher Education Program Office monitors the progress of teacher education students. Admission to the University Teacher Education Program is the first of three checkpoints. At this time, the requirements listed below will be checked. Students will not be able to progress to Student Teaching (Checkpoint 2) and Licensure (Checkpoint 3) without full admission to the University Teacher Education Program (Checkpoint 1). Departments may have higher eligibility requirements for each checkpoint (see licensure area coordinator for more information).

A student seeking admission to the Iowa State University Teacher Education Program must be accepted by a selection committee for the specific licensure area which the student seeks to enter. Factors considered in evaluating applications (in addition to the requirements listed below) may include scholarship, interest in teaching, character, interpersonal skills, and physical and mental health. Recommendations by selection committees must be confirmed by the University Teacher Education Coordinating Council before admission is granted.

Students may apply as early as four semesters before the one in which they plan to enroll for student teaching (see the "Deadline for Admission" section below for more information). Students in accelerated graduate programs must be fully admitted by mid-semester prior to their planned student teaching semester.

Checkpoint 1: Admission to the University Teacher Education Program
Contact Person: Heidi Doellinger, 133C MacKay Hall
Phone: 294-7886   Email: hldoell@iastate.edu
Timeframe: Students submit this form a minimum of one year before the start of the student teaching semester.
Webpage: http://www.teacher.hs.iastate.edu/admission.php
Checks:
Undergraduate Students (post-bachelor's and graduate requirements are posted online at the above link):
1. A minimum 2.5 cumulative grade point average.
2. Successful completion of one of the following basic skills test:
   * A composite Praxis I (PPST) score of 522, with a minimum of 170 for each test (reading, writing, and mathematics).
3. Documented completion of ISU-approved 10 hours of pre-student teaching field experience.
4. All Curriculum and Instruction (C I), Human Development and Family Studies (HD FS) and Special Education (Sp Ed) courses required for licensure have a minimum grade requirement of a C (pedagogy coursework). Courses in the department of the major specifically required for teacher licensure have a minimum grade requirement of a C- (content coursework).
5. An acceptable Iowa criminal background check report initiated by ISU's recommending official. There is a $15.00 fee, payable by cash or check made out to ISU, to 0133 MacKay. The form is available at http://www.teacher.hs.iastate.edu/files/Permission%20Form%20for%20Iowa%20Criminal%20History%20Check.pdf. The background check is only valid for two years and must be renewed if the student will participating in a practica or field experience more than two years after the background check prior to student teaching.
Please note, regarding #5, the courses that have a minimum grade requirement of a C- are the "required content courses" listed in the "Teacher Education" section of the 2013-2014 catalog. At the time of admission, students will be asked to attach a hard copy of their unofficial transcripts (which are located on AccessPlus).

Please note, regarding #6, all students must have a background check before initial placement in schools and other appropriate locations. The background check is valid for two years.

Checkpoint 2: Request for Student Teaching Placement.
Contact Person: Tiffany Coetzee, 0133 MacKay Hall
Phone: 294-1915   Email: tcoetzee@mail.iastate.edu
Timeframe: Students submit this form the semester before they plan to student teach.
Webpage: http://www.teacher.hs.iastate.edu/studentteaching.php

Checks:
1. Full admission to the University Teacher Education Program is required a minimum of 1 year before the start of the student teaching semester. Students in accelerated graduate programs must be fully admitted by mid-semester prior to the student teaching semester.
2. A minimum 2.5 cumulative grade point average.
3. Completion of the 'Request for Student Teaching Placement' documents by the deadline in the fall semester for spring student teaching and by the deadline in the spring semester for fall student teaching.
4. A passing grade as determined by the licensure area must have been earned in all required professional teacher education courses and selected courses in the student’s licensure area. All Curriculum and Instruction (C I), Human Development and Family Studies (HD FS) and Special Education (Sp Ed) courses required for licensure have a minimum grade requirement of a C (pedagogy coursework). Courses in the department of the major specifically required for teacher licensure have a minimum grade requirement of a C- (content coursework).

Checkpoint 3: Licensure
Contact Person: Teresa Kahler, Licensure Analyst, 0133 MacKay Hall
Phone: 294-7004   Email: tkahler@iastate.edu
Timeframe: When student has completed all of the requirements for licensure.
Webpage: http://www.teacher.hs.iastate.edu/licensure.php

Checks:
1. All requirements for an approved licensure area as designated by Iowa State University and the State of Iowa, including, but not limited to, the general education requirement, the professional teacher education requirement and field experiences. Note: Specific courses to be used for licensure may not be taken pass/not pass.
2. A minimum 2.5 cumulative grade point average.
3. All Curriculum and Instruction (C I), Human Development and Family Studies (HD FS) and Special Education (Sp Ed) courses required for licensure have a minimum grade requirement of a C (pedagogy coursework). Courses in the department of the major specifically required for teacher licensure have a minimum grade requirement of a C- (content coursework).
4. A national background check initiated by the Iowa Board of Educational Examiners.
5. Documentation from the student teaching supervisor that the student has successfully completed the final assessment documenting the student's mastery of the skills and knowledge included in the Iowa Teaching Standards.


7. Registrar approval (at this time, graduation is confirmed and holds on records are reviewed)

8. For Early Childhood Education and Elementary Education majors only: Praxis II score of 151 for the 0011 test or a 142 for the 0014 test.

**Please note:** Departments may have higher eligibility requirements. The University Teacher Education Program Committee sets minimum requirements for all teacher education students. Students will not be able to progress to Student Teaching (Checkpoint 2) and Licensure (Checkpoint 3) without full admission to the University Teacher Education Program (Checkpoint 1). If you have any questions about these checkpoints, please contact the appropriate contact person.

**Additional Assistance- UTEP Modules**

The [University Teacher Education Program Office](http://www.teacher.hs.iastate.edu) monitors the progress of teacher education students during three checkpoints: admission, student teaching and licensure. The UTEP office has created modules for students to view in order to provide clarity on the checkpoints [http://www.teacher.hs.iastate.edu/modules.php](http://www.teacher.hs.iastate.edu/modules.php)
AGRICULTURAL EDUCATION CLUB/Collegiate FFA

—Preparing Agricultural Educators for Tomorrow by Promoting Leadership and Cooperation Today—

The Agricultural Education Club is a professional leadership development organization organized for undergraduate student in the College of Agriculture and Life Sciences with an interest in how education impacts agriculture. The purpose of this organization centers on the development of decision-making, leadership abilities, and professional development. Membership in the Ag Ed Club consists of students enrolled in the undergraduate program of the Department of Agricultural Education and Studies as well as all others who have an interest in agricultural and/or extension education and related activities.

All members are encouraged to serve on various standing committees which include: Community Service, Events, Finance, Membership Development, Program, and Publicity. Some of the notable events the Club participates in include our Annual Spring Break Trip, Ag Ed Club Banquet, Curtiss Hall Beautification, Pizza-A-Thon, Football Parking, assistance at District and State FFA events, and participation at the National FFA Convention Career Show. Our business meetings are held once a month and include speakers from various educational, business/industry, local, state and federal governmental agencies. Previous meetings have focused on topics such as improving teamwork and leadership skills, agricultural internship opportunities, teaching resources, and international agriculture.

The Ag Ed Club offers an excellent opportunity for students to sharpen and develop their professional leadership skills and to forge relationships with individuals who have chosen a major in agricultural education or desire to serve in an agricultural leadership capacity. For further information on how you can become part of a great organization, visit the Department of Agricultural Education website at http://www.ageds.iastate.edu/. The club adviser is Dr. Ryan Anderson.
Agricultural and Life Sciences: Education Curriculum Sheet - Teacher Certification
2014-2015 Requirements for the Bachelor of Science Degree

<table>
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<th>Course No.</th>
<th>Course Title</th>
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A total of 128 credits and a 2.50 grade point average are required for licensure with the Bachelor of Science degree.

* English proficiency requires a C or better in 6 credits of written communication, 3 credits of speech and successful completion of Lib 160.
** Website address with complete list on back.
**Agriculture and Life Sciences Education Curriculum - Teacher Certification**
**2014-2015 Requirements for the Bachelor of Science Degree**
Prerequisite courses may be required or recommended for some courses.

**International Perspectives Requirements:**
Approved Courses List
http://www.registrar.iastate.edu/students/div-ip-guide/ip-list

**U.S. Diversity Requirements:**
Approved Courses List
http://www.registrar.iastate.edu/students/div-ip-guide/usdiversity-courses

**Written Communication Elective**
Commonly taken courses include:
AgEdS 327, Engl 302, 303, 304, 305, 306, 309, 314, JLMC 201, 305

**American History Elective List:**
For more current information refer to
http://www.teacher.hs.iastate.edu/files/approvedlist.doc

**Ethics Elective:**
Approved Courses List
http://www.agstudent.iastate.edu/agriculturestudentservices/ethicslist.html

**Note:** A single course cannot count in more than one area. If a course meets more than one requirement, the student may choose which requirement the course will fulfill.

**Other Important Sites:**

**AgEdS Teacher Education Website**
http://www.teachaged.iastate.edu
http://www.agnet.iastate.edu/

**Department of Teacher Education Website**
http://www.teacher.hs.iastate.edu/
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DEPARTMENT OF AGRICULTURAL EDUCATION AND STUDIES
STUDENT SURVEY

The Agricultural Education and Studies Department requests this information for the purpose of becoming better acquainted with you. This information is not routinely provided to anyone outside the university. You may omit any information you desire.

STUDENT, please complete before your advising appointment.

Name: ___________________________ Local Phone/Cell: ___________________________
Home Phone: ___________________________ Local Address: ___________________________
Home Address: ___________________________ Year (fresh-sen): ___________________________
Anticipated Grad Date: ___________________________ HS Ag Program: ___________________________
HS Graduation Date: ___________________________ HS Ag Teacher: ___________________________

Please complete the below questions before your advising appointment. The adviser will sign this document as verification that the meeting has been held.

Introduction
1. Tell me about yourself.

2. Are you a freshman or transfer student?

3. Tell me about your family.

4. What types of activities are you involved in (community, HS &/or CC)?

5. What types of agricultural/work experiences have you had?

6. What are the future opportunities for you in agriculture?
   a. For example, take over family farm or business, etc.

Goals after college
1. What would be your ideal career after graduation?

2. Where do you want to be 10 years after graduation?
3. How do you see your experience at ISU and this degree helping to accomplish these goals?
Academic Aspirations
1. Your primary academic goal is probably to earn an undergraduate (bachelor’s) degree, but have you considered a graduate (master’s) degree? Immediately or after working for a while?

2. What types of courses are you interested in taking (inside and outside the CALS) at ISU?

3. Are you interested in a minor or double major?

4. Why did you decide to attend ISU? …the College? …Ag Ed or Ag St major?

5. What clubs or organizations do you plan to participate in?

6. Have you had the opportunity to travel nationally and/or internationally? Have you thought about participating in an international experience while at ISU?

Work/Internship Experiences
1. Tell me about your previous work experiences.

2. Do you plan to work during the school year? If so, what type of work?

3. What do you plan to do next summer?

4. Have you considered an internship for next summer?

5. What types of internships interest you?

This is verification that __________________________ and I have met and worked through the student survey.

Signed:
__________________________  _________________
(Academic Adviser)  (Date)
# AGRICULTURAL EDUCATION AND STUDIES
## PERSONAL INVENTORY AND PLAN

### Agricultural Experience:
1. __________________________
2. __________________________
3. __________________________
4. __________________________

### Leadership Experience:
1. __________________________
2. __________________________
3. __________________________
4. __________________________

### Personal Strengths:
1. __________________________
2. __________________________
3. __________________________
4. __________________________

### Areas to Strengthen:
1. __________________________
2. __________________________
3. __________________________
4. __________________________

### My Educational and Career Goals are:

---

## Personal Improvement Plan

### I plan to take the following courses:
1. __________________________
2. __________________________
3. __________________________
4. __________________________

### I plan to become involved in the following organizations:
1. __________________________
2. __________________________
3. __________________________
4. __________________________

### I plan to improve my weaknesses by:
1. __________________________
2. __________________________
3. __________________________
4. __________________________

### I plan to seek the following types of work experiences:
1. __________________________
2. __________________________
3. __________________________
4. __________________________
Course Planning Sheet

Agricultural Education & Studies

Name: __________________________

Date: __________________________

Note: __________________________

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# Course Planning Sheet

**Name:**

**Date:**

**Agricultural Education & Studies**

**Note:** ____________________________________________________________

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Agricultural Education & Studies

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# Course Planning Sheet

**Name:**

**Agricultural Education & Studies**

**Date:**

**Note:**

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Agricultural Studies Curriculum Check List  

Name_________________________ Adviser_________________________

Working with your advisor, fill in courses below using your degree audit and curriculum sheet, as applicable. Use pencil, as this plan may change. 12 credits = full time; 15-16 credits is average. Remember to include space for internships, co-ops and study abroad experiences!

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You are classified as a Sophomore when you have 30 credits  
You are classified as a Junior when you have 60 credits  
You are classified as a Senior when you have 90 credits  

See Graduation Checklist and more on the back of this page!
Appendix A
Iowa State University Advisement/ Degree Audit
Agricultural Education, Certification

CODE: A AGLSE B CATALOG YEAR: 2013
AGRICULTURAL & LIFE SCIENCES EDUCATION
BACHELOR OF SCIENCE

Student Info Curriculum
Classified as Entry type:
Email: 
Entered:
Total credits 0.00** CUM GPA 0.00**
Total deficient quality points 0.00 Drops remaining 0
Transfer deficient quality points 0.00
Designated repeat credits used 0.00**
PNP credits earned: 0.00**
PNP crs in-progress: 0.00 **Not including in-progress courses
Adviser: 

AT LEAST ONE REQUIREMENT HAS NOT BEEN SATISFIED

---COMPLETION OF ALL SPECIFIC COURSE REQUIREMENTS LISTED BELOW.
---2.00 MINIMUM CUMULATIVE GRADE POINT AVERAGE.
---128.0 MINIMUM CREDITS - Only 65.0 crs from a two year institution may apply toward degree program which may include up to 16.0 Career/Tech crs. 9.0 P-NP crs of free electives may apply.

NO ---------TOTAL APPLIED CREDITS ---------
Appl'd .00 credits
-> Needs 128.00 credits

ISU/FOUR YEAR COLLEGE CREDITS APPLIED

NO INTERNATIONAL PERSPECTIVES (3.0 crs) Complete 3.0 crs from International Perspectives list http://tinyurl.com/bzbmvy9

NO U.S. DIVERSITY (3.0 crs) Complete 3.0 crs from U.S. Diversity list http://tinyurl.com/atq6kpj

NO COMMUNICATIONS PROFICIENCY
**Communication Proficiency can be certified when a student has completed 6.0 crs of English composition with a C or better and 3.0 crs of speech fundamentals with a C or better.
CATLYT: 201305 RNAME: A EPCAGE PSNAME: A EPCAGE
REQU FYT: 200705 TO 999999 INSTCD:
NO COMMUNICATION/LIBRARY
--> Needs 3 sub-groups
- 1) ENGL 150 and 250
- 2) AGEDS 311
- 3) LIB 160

CATLYT: 201305 RNAME: A HSSCEAG PSNAME: A HSSCEAG
REQU FYT: 200505 TO 999999 INSTCD:
NO HUMANITIES-SOCIAL SCIENCES (6.0 crs)
--> Needs 6.00 credits 2 sub-groups
- 1) PSYCH 230
- 2) Complete 3.0 crs from approved History list

CATLYT: 201305 RNAME: A ETHIC PSNAME: A ETHICS
REQU FYT: 000000 TO 999999 INSTCD:
NO ETHICS (3.0 crs)
--> Needs 3.00 credits 1 sub-group
- 1) Complete 3.0 crs from approved ethics list
http://www.agstudent.iastate.edu/ethics.htm

CATLYT: 201305 RNAME: A 9LSALL6 PSNAME: A 9LSALL6
REQU FYT: 201105 TO 999999 INSTCD:
NO LIFE SCIENCES
--> Needs 6.00 credits 2 sub-groups
- 1) BIOL 211 and 211L
- 2) BIOL 212 and 212L

CATLYT: 201305 RNAME: A MTHCEAG PSNAME: A MTHAGED
REQU FYT: 201105 TO 999999 INSTCD:
NO MATH AND PHYSICAL SCIENCES (10.0 crs)
--> Needs 10.00 credits 3 sub-groups
- 1) (CHEM 163 and 163L) or (CHEM 177 and 177L)
- 2) MATH 104 or 150
- 3) STAT 104

CATLYT: 201305 RNAME: A AGSAGED PSNAME: A AGSAGED
REQU FYT: 201105 TO 999999 INSTCD:
NO AG SCIENCE & ECONOMICS (32.0 crs)
(ALL COURSES MINIMUM GRADE C- )
--> Needs 31.00 credits 10 sub-groups
- 1) ACCT 284
- 2) AGRON 114
- 3) AGRON 154
- 4) AN S 114 and AN S 101
- 5) HORT 221
- 6) ECON 101
- 7) ECON 230
- 8) NREM 120
- 9) AGEDS 315
- 10) AGEDS 488

CATLYT: 201305 RNAME: AO CERTAE PSNAME: AO CERTAE
REQU FYT: 200905 TO 999999 INSTCD:
Page 2 of 4
NO PROFESSIONAL CERTIFICATION OPTION (37.5 crs)
(ALL COURSES MINIMUM GRADE C)
---> Needs 37.50 credits 12 sub-groups
  - 1) C I 202
  - 2) C I 204
  - 3) C I 333
  - 4) C I 406
  - 5) SP ED 401
  - 6) AGEDS 110A
  - 7) AGEDS 211A
  - 8) AGEDS 310
  - 9) AGEDS 401
  - 10) AGEDS 402
  - 11) AGEDS 416
  - 12) AGEDS 417

---

CATLYT: 201305 RNAME: A AG ELEC PSNAME: A AG ELEC
REQU FYT: 200705 TO 999999 INSTCD:
ELECTIVES
**Reminder: Only 65.0 crs from a two year institution
may apply toward degree program which may include
up to 16.0 career/tech crs. **Any courses listed below
in electives that exceed these limits are not counted
toward TOTAL APPLIED CREDITS.

CATLYT: 201305 RNAME: TERM TOT PSNAME:
REQU FYT: 000000 TO 999999 INSTCD:
OK TOTALS BY TERM=Degree Audit Calculations
Top/Down with most CURRENT term at the TOP

CATLYT: 201305 RNAME: LEGEND PSNAME: Legend
REQU FYT: 000000 TO 999999 INSTCD:
-------------LEGEND--------------
OK =Requirement Complete >D = Designated Repeat Course
NO =Requirement NOT Complete >RP = Repeatable course
IP =Requirement In Progress IN-P... =Sub-Req.In Progress
>R =Course repeated in future AUD =Audited course-no credit
IX =cur/reg PNP course T4 =4yr college transfer credit
+ =Sub-Req Complete T2 =2yr college transfer credit
# =Sub-Req NOT Complete TT =Career/Tech transfer credit
R =Required Course CUR =currently enrolled course
>S =Split Course REG =currently registered course
>P =P-NP course TCUR =Test out crs, holding file
@ =Repeated course >R =Required Course
** =Previous grade:I(incomplete)>G =Non & Designated Rpt Course
>T =P to graded or NP to not >H = Honors course
>I =Incomplete Grade * =Not Including IN-P... Courses
>N =Non-Designated Rpt Course I = Academic Renew/Ignore course
>TR = Transfer work prior to 1980's with no grade assigned
TPT(2,4,T)=Transfer course, prospective student
NTR(2,4)=No Transfer, remedial course

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MEMO SECTION
Audit used for testing only...

*********************************************************************
End of Analysis *********************************************************************
Appendix B

Iowa State University Advisement/Degree Audit
Agricultural Education, Communications

PREPARED: 07/17/13 - 13:37 SAM
PROGRAM CODE: A AGLSE B CATALOG YEAR: 2013
AGRICULTURAL & LIFE SCIENCES EDUCATION
BACHELOR OF SCIENCE

Student Info Curriculum
Classified as Entry type:
Email:
Entered:
Total credits 0.00** CUM GPA 0.00**
Total deficient quality points 0.00 Drops remaining 0
Transfer deficient quality points 0.00
Designated repeat credits used 0.00**
PNP credits earned: 0.00**
PNP crs in progress: 0.00 **Not including in-progress courses
Adviser: ____________________________________________________________

AT LEAST ONE REQUIREMENT HAS NOT BEEN SATISFIED

CATLYT: 201305 RNAME: TOT 128.0 PSNAME: TOT128.0
REQU FYT: 000000 TO 999999 INSTCD: BAC
HELOR'S DEGREE IN THIS MAJOR REQUIRES:
--- COMPLETION OF ALL SPECIFIC COURSE REQUIREMENTS LISTED BELOW.
--- 2.00 MINIMUM CUMULATIVE GRADE POINT AVERAGE.
--- 128.0 MINIMUM CREDITS - Only 65.0 crs from a two year institution may apply toward degree program which may include up to 16.0 Career/Tech crs. 9.0 P-NP crs of free electives may apply.

NO -------- TOTAL APPLIED CREDITS --------
Appl'd .00 credits
-- Needs 128.00 credits

ISU/FOUR YEAR COLLEGE CREDITS APPLIED

CATLYT: 201305 RNAME: TOTAL GPA PSNAME: total gpa
REQU FYT: 000000 TO 999999 INSTCD: 
- TOTAL DEFICIENT QUALITY POINTS (see above)

CATLYT: 201305 RNAME: INTL PERS PSNAME: INTL PERS
REQU FYT: 000000 TO 999999 INSTCD:
NO INTERNATIONAL PERSPECTIVES (3.0 crs)
Complete 3.0 crs from International Perspectives list
http://tinyurl.com/bzbmv9

REQU FYT: 000000 TO 999999 INSTCD:
NO U.S. DIVERSITY (3.0 crs)
Complete 3.0 crs from U.S. Diversity list
http://tinyurl.com/atq6kpj

CATLYT: 201305 RNAME: A CP PSNAME: A CP
REQU FYT: 200705 TO 999999 INSTCD:
NO COMMUNICATIONS PROFICIENCY
**Communication Proficiency can be certified when a student has completed 6.0 crs of English composition with a C or better and 3.0 crs of speech fundamentals with a C or better.

CATLYT: 201305 RNAME: A EPCOAGE PSNAME: A EPCOAGE
REQU FYT: 201205 TO 999999 INSTCD:
NO COMMUNICATION/LIBRARY (10.0 crs)
--> Needs 3 sub-groups
- 1) ENGL 150 and 250
- 2) AGEDS 311
- 3) LIB 160
CATLYT: 201305 RNAME: A HUMAL8 PSNAME: A HUMAL8
REQU FYT: 200505 TO 999999 INSTCD:
NO HUMANITIES AND SOCIAL SCIENCES (9.0 crs)
--> Needs 3 sub-groups
  - 1) ECON 101 or ECON 102
  - 2) Complete 3.0 crs from Dept of Psych
  - 3) Complete 3.0 credits from approved Humanities list
http://www.agstudent.iastate.edu/humanities.htm

CATLYT: 201305 RNAME: A ETHIC PSNAME: A ETHICS
REQU FYT: 000000 TO 999999 INSTCD:
NO ETHICS (3.0 crs)
--> Needs 3.00 credits 1 sub-group
  - 1) Complete 3.0 crs from approved ethics list
http://www.agstudent.iastate.edu/ethics.htm

CATLYT: 201305 RNAME: A 9LSALL7 PSNAME: A 9LSALL1
REQU FYT: 200905 TO 999999 INSTCD:
NO LIFE SCIENCES (9.0 crs)
Courses in Life Sciences req will not fulfill Ag & Econ requirement.
--> Needs 9.00 credits 3 sub-groups
  - 1) BIOL 211
  - 2) BIOL 212
  - 3) Complete 3.0 crs from approved Life Sciences List:
http://www.agstudent.iastate.edu/life_science.htm

CATLYT: 201305 RNAME: A MTHCOAG PSNAME: A MTHCOAG
REQU FYT: 200905 TO 999999 INSTCD:
NO MATH AND PHYSICAL SCIENCES (14.0 crs)
--> Needs 14.00 credits 4 sub-groups
  - 1) (CHEM 163 and 163L) or (CHEM 177 and 177L)
  - 2) MATH 104 or 150
  - 3) BBMB 221 or PHYS 106
  - 4) STAT 101 or 104

CATLYT: 201305 RNAME: A AGSCAL9 PSNAME: A AGSCAL9
REQU FYT: 200905 TO 999999 INSTCD:
NO AG SCIENCES & ECONOMICS (32.0)
--> Needs 2 sub-groups
  - 1) Complete 32.0 crs to fill the following rules:
    * 10.0 crs from one designator, 6.0 at 300+ course level
    * 6.0 crs from another designator
    * 6.0 crs from different designator
    * 10.0 crs of Agricultural and Economics electives
  - 2) This area will become OK once your adviser has approved the list of courses showing above.

CATLYT: 201305 RNAME: A AG Elec PSNAME: A AG ELEC
REQU FYT: 200705 TO 999999 INSTCD:
ELECTIVES
**Reminder: Only 65.0 crs from a two year institution may apply toward degree program which may include up to 16.0 career/tech crs. **Any courses listed below in electives that exceed these limits are not counted toward TOTAL APPLIED CREDITS.

CATLYT: 201305 RNAME: TERM TOT PSNAME:
REQU FYT: 000000 TO 999999 INSTCD:
OK TOTALS BYTERM--Degree Audit Calculations
Top/Down with most CURRENT term at the TOP

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CATLYT: 201305 RNAME: LEGEND PSNAME: Legend
REQU FYT: 000000 TO 999999 INSTCD: ___________________________

OK = Requirement Complete >D = Designated Repeat Course
NO = Requirement NOT Complete >RP = Repeatable course
IP = Requirement In Progress IN-P... = Sub-Req In Progress
>R = Course repeated in future AUD = Audited course-no credit
IX = cur/reg PNP course T4 = 4yr college transfer credit
+ = Sub-Req Complete T2 = 2yr college transfer credit
- = Sub-Req NOT Complete TT = Career/Tech transfer credit
R = Required Course CUR = currently enrolled course
>S = Split Course REG = currently registered course
>P = P-NP course TCUR = Test out crs, holding file
>@ = Repeated course >= Short credits due to limit
>* = Previous grade: I (incomplete) > G = Non & Designated Rpt Course
>T = P to graded or NP to not > H = Honors course
>I = Incomplete Grade ** = Not Including IN-P... Courses
>N = Non-Designated Rpt Course I = Academic Renew/Ignore course
>TR = Transfer work prior to 1980's with no grade assigned
IPT(2,4,T) = Transfer course, prospective student
NTR(2,4) = No Transfer, remedial course

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MEMO SECTION
Audit used for testing only...
---

************* End of Analysis *************
Appendix C
Iowa State University Advisement/ Degree Audit
Agricultural Studies

PREPARED: 07/17/13 - 13:55 SAMP
PROGRAM CODE: A AG ST B CATALOG YEAR: 2013
AGRICULTURAL STUDIES
BACHELOR OF SCIENCE

Student Info Curriculum
Classified as Entry type:
Email:
Entered:
Total credits 0.00** CUM GPA 0.00**
Total deficient quality points 0.00 Ddrops remaining 0
Designated repeat credits used 0.00**
PNP credits earned: 0.00**
PNP crs in-progress: 0.00 **Not including in-progress courses
Adviser:

AT LEAST ONE REQUIREMENT HAS NOT BEEN SATISFIED

--- COMPLETION OF ALL SPECIFIC COURSE REQUIREMENTS LISTED BELOW.
--- 2.00 MINIMUM CUMULATIVE GRADE POINT AVERAGE.
--- 128.0 MINIMUM CREDITS
Only 65.0 crs from a two year institution may apply toward degree program
which may include up to 16.0 Career/Tech crs.
9.0 P-NP crs of free electives may apply.

NO -------- TOTAL APPLIED CREDITS --------
Appl'd .00 credits
-> Needs 128.00 credits

ISU/FOUR YEAR COLLEGE CREDITS APPLIED

NO INTERNATIONAL PERSPECTIVES (3.0 crs)
Complete 3.0 crs from International Perspectives list
http://tinyurl.com/bzbmvy9

NO U.S. DIVERSITY (3.0 crs)
Complete 3.0 crs from U.S. Diversity list
http://tinyurl.com/atq6kpj

**Communication Proficiency can be certified when a student has completed 6.0 crs of English composition with a C or better and 3.0 crs of speech fundamentals with a C or better.
REQU FYT: 201105 TO 999999 INSTCD:
NO COMMUNICATION/LIBRARY
--> Needs 4 sub-groups
  - 1) ENGL 150 and 250
  - 2) AGEDS 311 or SP CM 212
  - 3) AGEDS 327, ENGL 302, 309, or 314
  - 4) LIB 160

CATLYT: 201305 RNAME: A HSSAGST PSNAME: A HSSAGST1
REQU FYT: 201105 TO 999999 INSTCD:
NO HUMANITIES AND SOCIAL SCIENCES (9.0 crs)
--> Needs 6.00 credits 2 sub-groups
  - 1) ECON 101
  - 2) Complete 3.0 credits from approved Humanities list
Acceptable courses listed at website: http://www.agstudent.iastate.edu/humanities.htm

CATLYT: 201305 RNAME: A ETHIC PSNAME: A ETHICS
REQU FYT: 000000 TO 999999 INSTCD:
NO ETHICS (3.0 crs)
--> Needs 3.00 credits 1 sub-group
  - 1) Complete 3.0 crs from approved ethics list
http://www.agstudent.iastate.edu/ethics.htm

CATLYT: 201305 RNAME: A 9LSALL6 PSNAME: A 9LSALL6
REQU FYT: 201105 TO 999999 INSTCD:
NO LIFE SCIENCES
--> Needs 6.00 credits 2 sub-groups
  - 1) BIOL 211 and 211L
  - 2) BIOL 212 and 212L

CATLYT: 201305 RNAME: A MTHAGST PSNAME: A MTHAGST
REQU FYT: 201105 TO 999999 INSTCD:
NO MATH AND PHYSICAL SCIENCES
--> Needs 3 sub-groups
  - 1) (CHEM 163 and 163L) or (CHEM 177 and 177L)
  - 2) MATH 104 or 150
  - 3) STAT 104

CATLYT: 201305 RNAME: A AGSAGST PSNAME: A AGSAGST
REQU FYT: 201105 TO 999999 INSTCD:
NO AG SCIENCES & ECONOMICS (42.5 crs)
--> Needs 42.50 credits 15 sub-groups
  - 1) AGEDS 110B
  - 2) AGEDS 215
  - 3) AGEDS 315
  - 4) AGEDS 450
  - 5) AGEDS 451
  - 6) AGRON 114
  - 7) AGRON 154
  - 8) AGRON 212 and 212L
  - 9) AGN 101
  - 10) AN S 114
  - 11) ECON 230
  - 12) ECON 235
  - 13) ECON 334
  - 14) NREM 120 or 130
  - 15) Complete 6.0 crs from Department of AN S
CATLYT: 201305 RNAME: A OTHAGST PSNAME: A OTHAGST
REQU FYT: 000000 TO 999999 INSTCD:
NO OTHER REQUIRED COURSES
--> Needs 1 sub-group
  - 1) ACCT 284

ELECTIVES
**Reminder: Only 65.0 crs from a two year institution may apply toward degree program which may include up to 16.0 career/tech crs. **Any courses listed below in electives that exceed these limits are not counted toward TOTAL APPLIED CREDITS.

MEMO SECTION
Audit used for testing only...

****************** End of Analysis ******************