

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 2021

Table of Contents

General Information for All Majors

Introduction.....	2
Iowa State University Principles of Community	4
AgEdS Faculty and Staff.....	5
University Calendar	7
Academic Advising Mission and Outcomes.....	8
The Role of Academic Advising.....	10
Planning Your Program of Study.....	11
College – More than Just Classes	12
Minors	13
Double Major/Double Degree.....	14
Keys to Developing Good Schedules.....	15
AgEdS Advising and Registration Process	16
Making Schedule Changes.....	18
UAchieve Degree Audit System.....	19
Graduation Procedures.....	20
Grading System.....	21
Academic Progress & Warning/Probation.....	23
Academic Integrity.....	25
How to Use the Iowa State University General Catalog.....	29
Restricted Electives in Humanities, Ethics, and Social Sciences.....	30
Transfer Courses and Credits.....	32
Scholarships	33
Internships and Early Field-Based Experience	34
Other Services Available	38
Summary of Introduction Section.....	38

Agricultural Studies

Agricultural Studies Degree Requirements.....	39
Suggested Coursework and Electives	41
Farm Operations Club.....	48
Agricultural Studies Curriculum Sheet	50
Agricultural Studies Typical Program of Study/Four-Year Plan	53

Agriculture and Life Sciences Education Degree Requirements

Introduction	56
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Agriculture and Life Sciences Education: Communication Option

Degree Requirements.....	56
Agriculture and Life Sciences Education (Comm) Curriculum Sheet.....	58
Agriculture and Life Sciences Education (Comm) Typical Program of Study/Four-Year Plan.....	60
Agricultural Communicators of Tomorrow (ACT) Club.....	61

Agriculture and Life Sciences Education: Certification Option

Degree Requirements.....	62
Standards for University Teacher Education Candidates.....	65
Procedures for Admission to ISU's Teacher Education	67
Agricultural Education Club	71
Agricultural Education (Cert) Curriculum Sheet	72
Agricultural Education (Cert) Typical Program of Study/Four-Year Plan	74

Appendix

Agricultural Education & Studies Student Survey	76
Personal Inventory Plan	78
AgEdS Course Planning Sheets	80

Iowa State University Advisement/ Degree Audit/Other Information

Appendix A. Agriculture and Life Sciences Education, Certification.....	90
Appendix B. Agriculture and Life Sciences Education, Communication.....	95
Appendix C. Agricultural Studies.....	101
Appendix D. Time Management worksheet, Resume Areas, Class Notes.....	107

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 Agricultural and Life Sciences Education. Iowa State University is recognized the world over and both the Agricultural 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 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 **Agricultural 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 and Life Sciences 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 agricultural 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.



IOWA STATE UNIVERSITY PRINCIPLES OF COMMUNITY

Respect: We seek to foster an open-minded understanding among individuals, organizations and groups. We support this understanding through outreach, increasing opportunities for collaboration, formal education programs and strategies for resolving disagreement.

Purpose: We are encouraged to be engaged in the university community. Thus, we strive to build a genuine community that promotes the advancement of knowledge, cooperation and leadership.

Cooperation: We recognize that the mission of the university is enhanced when we work together to achieve the goals of the university. Therefore, we value each member of the Iowa State University community for their insights and efforts, collective and individual, to enhance the quality of campus life.

Richness of Diversity: We recognize and cherish the richness of diversity in our university experience. Furthermore, we strive to increase the diversity of ideas, cultures and experiences throughout the university community.

Freedom from discrimination: We recognize that we must strive to overcome historical and divisive biases in our society. Therefore, we commit ourselves to create and maintain a community in which all students, staff, faculty and administrators can work together in an atmosphere free from discrimination, and to respond appropriately to all acts of discrimination.

Honest and respectful expression of ideas: We affirm the right to and the importance of a free exchange of ideas at Iowa State University within the bounds of courtesy, sensitivity and respect. We work together to promote awareness of various ideas through education and constructive strategies to consider and engage in honest disagreements.

AGRICULTURAL EDUCATION AND STUDIES FACULTY AND STAFF

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. 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 advisor throughout your college experience. Faculty and staff members consider advising to be very important. They enjoy helping you. You can be sure that your advisor will do all he/she can to assist you in reaching your educational and career goals.

Faculty	Title	Office	Phone	E-Mail
Dr. David Acker	Associate Dean for Global Engagement	111 Curtiss	294-3683	dacker@iastate.edu
Dr. Theresa Cooper	Assistant Dean for Diversity	139 Curtiss	294-8574	tncooper@iastate.edu
Mr. Jon Davis	Assistant Teaching Professor	223 Curtiss		davisjk@iastate.edu
Dr. Awoke Dollisso	Associate Teaching Professor	223 Curtiss	294-0898	dollisso@iastate.edu
Dr. Nancy Grudens-Schuck	Associate Professor	217 Curtiss	294-0894	ngs@iastate.edu
	Assistant Professor	223 Curtiss	294-4139	mhainlin@iastate.edu
Ms. Virginia Hansen	Assistant Teaching Professor	206 Curtiss	294-6145	vmhansen@iastate.edu
Dr. Katherine Hartmann	Adjunct Associate Professor	217 Curtiss		kh4@iastate.edu
Dr. Michael Martin	Associate Professor	206 Curtiss	294-0896	mjm4@iastate.edu
Dr. Fally Masambuka-Kanchewa	Assistant Professor	217 Curtiss		fallymk@iastate.edu
Dr. Greg Miller	Professor	217 Curtiss	294-2583	gsmiller@iastate.edu
Dr. Shuyang Qu	Assistant Professor	206 Curtiss	294-8343	squ@iastate.edu
Dr. Michael Retallick	Professor and Chair	206 Curtiss	294-4810	msr@iastate.edu
Dr. Skyler Rinker	Assistant Teaching Professor – Ag450	223 Curtiss	294-8802	srinker@iastate.edu
Dr. Scott Smalley	Assistant Professor	217 Curtiss	294-0047	smalle16@iastate.edu
Ms. Kristine Tidgren	Adjunct Asst. Prof	211 Curtiss	294-6365	ktidgren@iastate.edu
Staff	Title	Office	Phone	E-Mail
Ms. Tina Carter	Business Administrator	206 Curtiss	294-1862	ccarter1@iastate.edu
Mr. Ben Chamberlain	Student Services Specialist III	201 Curtiss	294-4655	bchamber@iastate.edu
Mr. Nate Dobbels	Academic Advisor II	201 Curtiss	294-5009	ndobbels@iastate.edu
Ms. Callie Gitch	Marketing Specialist	206 Curtiss	294-5693	cgitch@iastate.edu
Mr. Jacob Parr	450 Farm Operator	450 Farm	294-0742	jparr@iastate.edu
Ms. Suzanne Showalter	Admin Specialist	206 Curtiss	294-1106	suzshow@iastate.edu
TBA	Student Services Specialist	201 Curtiss	294-5872	

IOWA STATE UNIVERSITY CALENDAR 2021-2022

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

Fall Semester 2021

Classwork begins	Monday, August 23
Labor Day, classes recessed	Monday, September 6
University Holidays, offices closed	November 25 and 26
Final Exams	December 13-December 16
University holiday, offices closed	December 24 and 27
University holiday, offices closed	December 31

Winter Session 2021-2022

Classwork begins	Monday, December 20
Winter Session Ends	Friday, January 14

Spring Semester 2022

University holiday, offices closed	Monday, January 17
Classwork begins	Tuesday, January 18
Spring break, classes recessed	March 14 through March 18
Final Exams	May 9 through May 12
Undergraduate Commencement	Saturday, May, 14

Summer Session 2022

Classwork begins Session I	Monday, May 16
University holiday, offices closed	Monday, May 30
Classwork begins Session II	Monday, June 13
University holiday, offices closed	Monday, July 4
Session I ends	Friday, July 8
Session II ends	Friday, August 5



Iowa State University
Department of Agricultural Education and Studies
Academic Advising Mission and Outcomes

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 advisor, is responsible for achieving academic advising outcomes.
- ... Academic advising is a collaborative activity based upon a shared responsibility among the student, advisor, department, and resource centers including academic affairs, student affairs, and support services

The role of the advisor 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, advisors 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
 - Degree and program requirements
 - Campus student support services
 - Indicators of student potential and success
 - University deadlines
 - Career options and expectations
- Be available to serve as a mentor to advisees

As part of the advisor/advisee relationship, students are expected to:

- Communicate with their advisors
- Be respectful of their advisors' time
- Ultimately make their own decisions after consulting with their advisors
- Follow through on advisors' 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 advisors
- Follow through with appointments
- Be prepared for their meetings with their advisors and ask questions

THE ROLE OF ACADEMIC ADVISING

The role of your academic advisor 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 advisor serves as an informed source on course selection, registration, and course change procedures. They 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 advisor is to be used as a resource and consultant.

Your advisor cares about you and your academic progress. Keep in regular contact with your advisor; help them to get to know you. The better your advisor knows you, your background and goals, the better they will be able to help you in reaching your goals.

You are welcome to see your advisor anytime during their office hours, but to ensure that they don't already have a prior commitment, you are encouraged to schedule an appointment with them through the appropriate channels. Scheduling an appointment with your advisor is especially important during the advising period prior to registration since all students will be meeting with their advisors within a short period of time. If for some reason you are unable to see your advisor and you have a question or problem, do not hesitate to ask to see another advisor.

If you would like to request a different advisor after meeting with your assigned advisor, please schedule a meeting to discuss your options with Mr. Ben Chamberlain.

Your Academic Advisor:

Name _____

Office _____

To schedule an appointment, you may use the ISU Appointments system <https://cyclones.campus.eab.com/> or call the departmental office where your advisor is located:

AgEdS Student Services Office - 201 Curtiss Hall - 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 advisor. Seek their 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 advisor. Utilize them! The better your advisor knows you and your educational and career goals, the better they will be able to suggest appropriate course options to you. To help your advisor understand your goals, *complete the "Agricultural Education and Studies Student Survey" form found in the appendix with your advisor.*

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 advisor 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 advisor.*

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 Agricultural and Life Science Education curriculum's club is the Ag Education Club, and the Agricultural Studies curriculum's club is called the Farm Operations 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 advisors about becoming a club member. Ask your advisor 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 18 Curtiss Hall.

Farm Op Club Advisor: Dr. Skyler Rinker, Mr. Ben Chamberlain
PAS Club Advisor: Mr. Nate Dobbels
Ag Ed Club Advisor: Dr. Scott Smalley
ACT Club Advisor: Ms. Virginia Hanson, Dr. Shuyang Qu

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 Business	Environmental Studies	International Agriculture
Agricultural Systems	Feed Technology*	Landscape Management
Technology	Food and Society	Learning and Leadership
Agricultural and Life Sciences	Food Safety*	Sciences*
Education	Food Science	Meat Science
Agronomy	Forestry	Microbiology
Animal Ecology	Genetics	Nutrition
Animal Science	Global Health*	Sustainability*
Biochemistry	Horticulture	
Biology	Industrial Technology	
Entrepreneurship*	Insect Science	

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

A complete list of all minors at Iowa State, and required courses can be found in the ISU catalog:
<https://catalog.iastate.edu/collegescurricula/#minorstext>

If you are interested in a minor, you should talk with your academic advisor 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. Your advisor can assist you in formally declaring the minor(s) that you are interested in.

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 120 (agricultural studies) and 128 (agriculture and life sciences education) 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 advisor to start the process. As a part of processing the form, you will be assigned an advisor 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 Agricultural and Life Sciences Education or Agricultural Studies.

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

- Environmental Studies
- International Agriculture
- Seed Science

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 advisor 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 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 201 Curtiss.
- ◆ A current "Iowa State University Catalog" (Available via the web at catalog.iastate.edu)
- ◆ A "Schedule of Classes Book" accessed via the web" classes.iastate.edu
- ◆ Your most recent Degree Audit sheet (available through AccessPlus) and a curriculum requirement sheet (available from the AgEdS web site)

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 Student Information.*”
2. Students are asked to schedule an appointment with their advisor using the methods discussed in class.
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 advisor. It is best to schedule an appointment with your advisor during the registration period since all students must meet with their advisors.
 - 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 advisor
 - Inform your advisor of your current progress
 - COMMUNICATE!!
6. Obtain your advisor's approval and your Registration Access Number (RAN). Advisors do not generally provide RAN's via email – you must meet with your advisor in person to receive this information.
 - a. Check the student information field in Access Plus to find:
 - 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 advisor and attempt to make the changes anytime during the prescribed period.
9. If you decide not to attend ISU for a semester, it is important to drop and/or withdraw from your classes. You are still responsible for tuition and fees if you do not drop or withdraw from your classes.

Adding and Dropping Classes

1. AccessPlus – Class Registration Option

- ◆ Requires any computer with internet access, student ID number, and RAN.
<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. Access Plus - Schedule Change Form

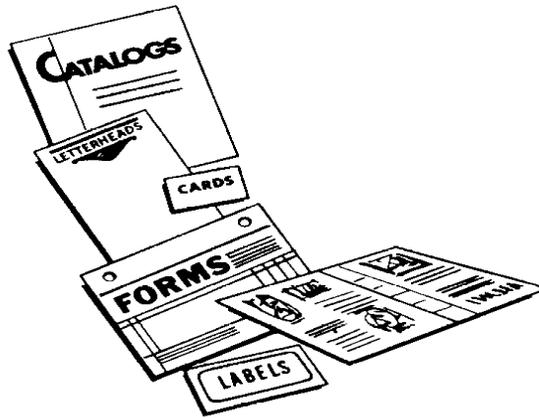
- ◆ Receive permission from instructor, complete form and submit to advisor
- ◆ Use after registration via AccessPlus Class Registration has ended or when signatures are required.

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.



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 advisor. 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.registrar.iastate.edu/calendar/>

Schedule Change Chart			
Time Periods	Procedure	Fee	Record
Period 1: Through the fifth day of classes. Fall: August 27, 2021 Spring: January 24, 2022	<ul style="list-style-type: none"> ➤ Process drops through AccessPlus. ➤ Process adds or section changes with a “Request For Schedule Change or Restriction Waiver” form. 	No Fee	Drop does not appear on your Student Grade Report or permanent record.
Period 2: After period 1, until a week after midterm: Fall: October 29, 2021 Spring: April 1, 2022	<ul style="list-style-type: none"> ➤ Process a “Request For Schedule Change or Restriction Waiver” form with the following items included: <ul style="list-style-type: none"> ➤ Your signature ➤ Advisor’s signature ➤ Instructor’s signature 	No Fee (covered by Records and Documents Fee)	Course will appear as a drop* with an “X” on the Student Grade Report and permanent record <u>and</u> will count against your limit of dropped courses.
Period 3: After period 2, through the remainder of the semester	<ul style="list-style-type: none"> ➤ 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. 	Depends on Circumstances	Depends on Circumstances
<p>*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.</p>			

UAchieve Degree Audit System

The UAchieve degree audit system 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 advisor will work with you during the registration period in reviewing your degree audit. If any changes need to be made, your advisor 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 degree audit to see if you have fulfilled your contract. *A generic degree audit for each major and option can be found in the appendix.*

To obtain a copy of your degree 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 degree audit 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 advisor in that major. The advisor in the prospective degree program may be able to make substitutions (especially for transfer students) that the computer system may not recognize automatically.

How to Use the Degree Audit

General Student Information is found in the first box in column 1 (top portion of page 1). The box provides information related to the total number of credits, cumulative GPA, deficiency points, classification, and advisor. 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 degree 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.

Some requirements, including international perspectives, US Diversity, Engl 150, Engl 250 and LIB 160 are university requirements, meaning everyone at Iowa state takes these courses regardless of major. Math, science, humanities and other foundational courses make up college of agriculture and life sciences requirements. Major specific requirements get to the core of the courses that make up your major and vary significantly by major.

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 advisor 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 such as Engl 302 or AgEdS 327).
 - b. A "C" or better in the oral communication course.
 - c. A "C" or better is required in Engl 250
- 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 advisor 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:

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

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

<u>Course</u>	<u>Credits</u>	<u>Grade</u>	<u>Quality Points</u>
KIN 210	2	A- (2x3.67)	7.34
AgEdS 110B	1	A (1x4.00)	4.00
Agron 181	3	A (3x4.00)	12.00
Biol 101	3	C (3x2.00)	6.00
Engl 150	3	C+ (3x2.33)	6.99
Lib 160	1	S	0.00
Math 140	<u>3</u>	B+ (3x3.33)	<u>9.99</u>
	16.0		46.32

GPA = Total Quality Points/Total Credits (46.32/15 = 3.09)
 (A “Fail” for Lib 160 would have been included in the GPA calculation.)

The grade point calculator tool located at <http://www.registrar.iastate.edu/students/gpa-calc> may be useful as well.

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) Not be on academic probation
- 2) 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, meet with your academic advisor to discuss the appropriateness of this change and initiate the process.



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 advisor 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 advisor 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 advisor within the first 10 days of the semester. Students who fail to meet with their advisor 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.

The complete academic standards policy is found at
<http://catalog.iastate.edu/academiclife/progressprobation>

ACADEMIC INTEGRITY AND PROFESSIONALISM

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 Dishonesty¹

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 advisor 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 advisor 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.

Full information at:

https://catalog.iastate.edu/academic_conduct/#academicdishonestytext

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 advisor 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.cals.iastate.edu/student-services/home>) 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 advisor 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 DMAACC

The purpose of the DMAACC/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.registrar.iastate.edu/forms/crossnroll>).

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 advisor. 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.
- Use the *ISU Course Equivalency Guide* to enroll in the correct courses to ensure they transfer appropriately and apply to your program. Check the guide in the website: <http://www.admissions.iastate.edu/equiv/index.php?type=transfer>.
- 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/>.

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 (<https://www.scholarships.cals.iastate.edu/>). 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 www.iowacollegeaid.gov 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 - Instructor: Mr. Nate Dobbels

C. Agricultural Industries and Agencies – Instructor Mr. Nate Dobbels

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.

Early Field Based Experience (EFE) for Teacher Education

AgEdS 211A is developed specifically for teacher certification and those who want a high school agricultural EFE. The instructor for AgEdS 211A is Mr. Nate Dobbels

All materials for AgEdS 211A will be available in Canvas during the semester you are enrolled. The first step of this course is to contact Mr. Nate Dobbels to discuss the plan for the semester.

Early Field Based Experience (EFE) for Communications

Mr. Nate Dobbels

201 Curtiss Hall

515 294-5009

<http://www.ageds.iastate.edu/experience.htm>

AGEDS 211C

AgEdS 211 is required and must be completed **before** any student is eligible to participate in AgEdS 412 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.

AgEdS 211A = 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 Mr. Dobbels. 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 Mr. Dobbels 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 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 Mr. Dobbels. Your academic advisor is familiar with the EFE process.

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

Agriculture and Life Sciences Education – Communications:
Agricultural Studies:

Dr. Shuyang Qu
Mr. Ben Chamberlain

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. Qu or Mr. Chamberlain to ensure it is the most valuable experience for you, meets course requirements, and is an approved site.
4. Please notify Dr. Qu or Mr. Chamberlain 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. Scott Smalley 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 advisor 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.

If You

- Lose your student I.D. card
- Need a copy of your ISU transcript
- Need "Good Student" certification for your auto insurance
- Change your address
- Need walk-in medical service (appointments preferred)
- Need tutorial assistance in a course (can make request via web)
- Need study, reading, and/or test-taking skills improvement at no charge
- Need career exploration information
- Want to explore summer/full-time job opportunities

Go To

ISU Card Office
Ground Floor of Beardshear (Rm 0530)

214 Enrollment Services Center; AccessPlus (unofficial); process request via AccessPlus

214 Enrollment Services Center; process request via AccessPlus

Access Plus; department secretary

Thielen Student Health Center
Sheldon and Union Drive or call
First Nurse at 515-239-6877

Tutor Program
1060 Hixson-Lied Center

Academic Learning Lab
1060 Hixson-Lied Center

Student Counseling Services
3rd Floor, Student Services Building

Ag Career Services Office
15 Curtiss Hall

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. In 2021, two options were created: Production & Management, which continues the successful curriculum of agricultural studies in past years and Multidisciplinary, which allows for a greater deal of flexibility across a broader scope of agriculture.

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 course work, seek your advisor'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 for both options.

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:

<u>Area</u>	<u>Credits</u>
International Perspectives & U.S. Diversity	6
Interpersonal & Public Communication	13
Math, Physical & Life Sciences	19
Humanities, Ethics, and Social Sciences	9

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.cals.iastate.edu/student-services/ethics>

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), 327 (3) 450 (3), 451 (3)
Agronomy	181 (3), 182 (3), 280 (3)
Animal Science	101 (2), 114 (2), Elective (6)
Economics	235 (3), 230 (3), 300 level Econ (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 Law
Agricultural Sales and Marketing	Technology Systems Management (TSM)
Agronomy/Crop Production Specialist	Entrepreneurship
Farm Management	International Agriculture
Livestock Production & Management	Natural Resource Conservation
Pest Management	Horticulture, Turf, and Landscape
Communication and Journalism	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.

DEPARTMENT OF AGRICULTURAL EDUCATION & STUDIES
Suggested Coursework and Electives
2021-2022 Catalog

AGRIBUSINESS MANAGEMENT

- Acct 215. Legal Environment of Business.** (3-0) Cr. 3. F.S.SS. Prereq: Sophomore classification.
- Acct 285. Managerial Accounting.** (3-0) Cr. 3. F.S.SS. Prereq: 284.
- Advrt 230. Advertising Principles.** (3-0) Cr. 3. F.S. Prereq: Sophomore classification.
- Econ 234. Small Business Management.** (3-0) Cr. 3. F Prereq: Econ 101
- Fin 301. Principles of Finance.** (3-0) Cr. 3. F.S.SS. Prereq: Acct 284; Econ 101, Stat 226.
- 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
- Mgmt 370. Management of Organizations.** (3-0) Cr. 3 F.S.SS. Prereq; Econ 102 or 102
- Mkt 340. Principles of Marketing.** (3-0) Cr. 3. F.S.SS. Prereq: Econ 101.
- SCM 301. Supply Chain Management.** (3-0) Cr. 3. F.S.SS. Prereq: Econ 101, Stat 226.

AGRICULTURAL LAW

- Acct 215. Legal Environment of Business.** (3-0) Cr. 3. F.S.SS. Prereq: Sophomore classification.
- Acct 316. Business Law.** (3-0) Cr. 3. F. Prereq: 215.
- AgEdS 451. Agricultural Law.** (3-0) Cr. 3. S. Prereq: Senior classification.

AGRICULTURAL SALES AND MARKETING

- AgEdS 311. Presentation and Sales Strategies for Agricultural Audiences.** (3-0) Cr. 3. F.S.
- Econ 236. Agricultural Selling.** (3-0) Cr. 3. F. Prereq: 101.
- Mkt 340. Principles of Marketing.** (3-0) Cr. 3. F.S.SS. Prereq: Econ 101.
- Mkt 343. Personal Sales.** (3-0) Cr. 3. Prereq: 340.
- Mkt 442. Sales Management.** (3-0) Cr. 3. F.S. Prereq: 340.
- Mkt 447. Fundamentals of Consumer Behavior.** (3-0) Cr. 3. F.S. Prereq: 340.

TECHNOLOGY SYSTEMS MANAGEMENT - TSM

- TSM 115. Solving Technology Problems.** (2-2) Cr. 3. F.S. Prereq: Math 140 (can be taken concurrently).
- 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.** (3-0) Cr. 3. S. Prereq: Math 140.
- TSM 322L. Preservation of Grain Quality.** (0-3) Cr. 1. S. Prereq: Cr or enrollment in 322
- TSM 330. Agricultural Machinery and Power Management.** (2-3) Cr. 3. S. Prereq: 210, Math 142 or Math 160.
- TSM 325. Biorenewable Systems.** (3-0) Cr. 3. F. Prereq: Econ 101, Chem 163 or higher, Math 140 or higher.
- TSM 327. Animal Production Systems.** (3-0) Cr. 3. F. Prereq: 210.
- TSM 433. Precision Farming Systems.** (2-2) Cr. 3. F. Prereq: Junior or Senior classification.
- TSM 370. Occupational Safety.** (3-0) Cr. 3 Prereq: 270, junior standing F.S.
- CRP 251. Fundamentals of Geographic Information Systems** (2-2) Cr. 3. F.
- Agron 270. Geospatial Technologies** (2-2) Cr. 3 F.

AGRONOMY/CROP PRODUCTION SPECIALIST

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

Agron 282. 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 360. Environmental Soil Science. (2-2) Cr. 3 S. Prereq: 182 or ENSCI 250 or Geol 201

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

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. (3-0) Cr. 3. 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. (2.7-0) Cr. 1. F.S.SS. 5 weeks.

Ent 211. Insects and Society. (2.7-0) Cr. 2 F. S

ENTREPRENEURSHIP

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

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

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

Entrep 320. Corporate Entrepreneurship, Innovation and Technology Management. (3-0) F.S.

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

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 364. Rural Property Appraisal. (3-0) Cr. 3 Prereq: 101

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.SS. Prereq: Permission of instructor.

Agron 342. World Food Issues: Past and Present. (Same as Env S 342, FS HN 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.

Agron 160. Water Resources of the World. (3-0) Cr. 3 S

Agron 180. Global Agriculture in a changing world. (3-0) Cr. 3 F

An S 441. International Animal Agriculture. (3-0) Cr. 3 S

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 214L. Domestic Animal Anatomy and Physiology Lab. (0-2) Cr. 1. F.S. Prereq: Concurrent enrollment in An S 214.

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 219 Survey of Animal Nutrition. (3-0) Cr. 3 Prereq; Biol 101 or 212, Chem 163

An S 223. Poultry Science. (2-2) Cr. 3. F.S. Prereq: 101, 114.

An S 224. Companion Animal Science. (2-2) Cr. 3. S. Prereq: Course in biology.

An S 225. Swine Science. (2-2) Cr. 3. F.S. Prereq: 114, 101.

An S 226. Beef Cattle Science. (2-2) Cr. 3. F.S. Prereq: 114, 101.

An S 229. Sheep Science. (2-2) Cr. 3. F.S. Prereq: 114, 101.

An S 235. Dairy Cattle Science. (2-2) Cr. 3. F. Prereq: 101, 114.

An S 270. Foods of Animal Origin. (2-0) Cr.23. F.S. Prereq: Biol 212, Chem 163 or 177.

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 317. Fundamentals of Equine Behavior and Training. (0-6) Cr. 1-3.

An S 319. Animal Nutrition. (2-2) Cr. 3. F.S. Prereq: 214, course in organic chemistry or biochemistry.

An S 320. Livestock Feeding Program Design. (0-4) Cr. 2. F.S. Prereq: 319.

An S 331. Animal Reproduction. (3-0) Cr. 3. F.S. Prereq: Course in physiology.

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: 235, 319, 320, 331, 337, 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.

NATURAL RESOURCES CONSERVATION

- NREM 130. Natural Resources and Agriculture.** (3-0) Cr. 3. S.
- Agron 282. 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 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.SS. 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/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. WWW 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. WWW section offered fall semester.
- Ent 370. Insect Biology.** (2-3) Cr. 3. F. Prereq: Biol 101 or 201.
- Ent 372. Livestock Entomology.** (2-0) Cr. 2. Alt. S.
- 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.

HORTICULTURE, TURF, AND LANDSCAPE

- Hort 121. Home Horticulture.** (2-2) Cr. 3. F.S.
- Hort 131. Floral Design.** (1-2) Cr. 2 S.
- Hort 221. Principles of Horticulture.** (2-2) Cr. 3. F.S. Prereq: Biol 211 or concurrent enrollment.
- Hort 240. Trees, Shrubs, and Woody Vines for Landscaping.** (3-0) Cr. 3. F.
- Hort 282. Educating Youth Through Horticulture.** (2-3) Cr. 3. Alt. S. (even numbered springs)
- Hort 322. Plant Propagation.** (2-2) Cr. 3. S. Prereq: 221 or Biol 211.
- Hort 330. Herbaceous Ornamental Plants.** (2-2) Cr. 3. F. Prereq: 221 or by permission of instructor.
- Hort 331. Hydroponic Crop Production.** (2-0) Cr. 2 F Prereq Hort 221 or Agron 181
- Hort 332. Greenhouse Operation, Management and Crop Production I.** (3-3) Cr. 4. S. Prereq: 221.
- Hort 341. Woody Plant Cultivars: Shade Trees, Ornamental Trees and Woody Shrubs.** (2-0) Cr. 2. S.
Prereq: 240 or L A 221 or L A 222.
- Hort 342. Landscape Installation and Establishment.** (2-0) Cr. 2. F. Prereq: 240 or L A 221 or L A 222.
- Hort 351. Turfgrass Establishment and Management.** (Same as Agron 351.) (3-0) Cr. 3 F. Prereq: 221 or Agron 114 or Biol 211.
- Hort 351L. Turfgrass Establishment and Management Laboratory.** (Same as Agron 351L.) (0-3) Cr. 1. F. Prereq: Credit or enrollment in 351.

COMMUNICATION AND JOURNALISM

- Advrt 230. Advertising Principles.** (3-0) Cr. 3. F.S.
- Advrt 301. Research Strategic Planning for Advertising and Public Relations.** (Same as JI MC 301.) (3-0) Cr. 3. F.S. Prereq: 230 or JI MC 220; sophomore classification.
- Advrt 334. Advertising Creativity.** (2-2) Cr. 3. F.S. Prereq: C+ or better in JI MC 201; Advrt/JI MC 301.
- Advrt 335. Advertising Media Planning.** (3-0) Cr. 3. F.S. Prereq: C+ or better in JI MC 201; Advrt/JI MC 301.
- 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. F.S.
- ComSt 218. Conflict Management.** (3-0) Cr. 3. F.
- ComSt 301. Human Communication Theory.** (3-0) Cr. 3. F.S. Prereq: 101.
- ComSt 314. Organizational Communication.** (3-0) Cr. 3. F.S. Prereq: 101 or 102, 203, 301.
- ComSt 317. Small Group Communication.** (3-0) Cr. 3. F.S. Prereq: 101, 102, 203, 301.
- ComSt 325. Nonverbal Communication.** (Same as Ling 325, Sp Cm 325.) (3-0) Cr. 3. F.S..
Prereq: 101, 102, 203, 301.
- Engl 214. Introduction to Technical Communication.** (3-0) Cr. 3 F Prereq: 150
- Engl 302. Business Communication.** (3-0) Cr. 3 F.S.SS. Prereq: 250, Junior classification.
- Engl 303. Free-Lance Writing for Popular Magazines.** (3-0) Cr. 3. S. Prereq: 250, not open to Freshmen.
- 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 416. Visual Aspects of Business and Technical Communication.** (3-0) Cr. 3. F. Prereq: 302, 309, or 314, 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), JLMC 110
- Jl MC 242. Visual Principles for Mass Communicators.** (3-0) Cr. 3 F.S.
- JLMC 311. Fundamentals of Mobile Photography.** (3-0) Cr. 3
- PR 220. Principles of Public Relations.** (3-0) Cr. 3. F.S.
- PR 301. Research and Strategic Planning for Advertising and Public Relations.** (2-0) Cr. 3. F.S. Prereq: Advrt 230 or PR 220.
- PR 305. Publicity Methods.** (3-0) Cr. 3. F.S. Prereq: Engl 250, Sophomore classification.
- PR 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.
- 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 207. Art and Heritage of Livestock.** (3-0) Cr. 3 F.
- 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
- Com S 113. Introduction to Spreadsheets and Databases.** (2-2) Cr. 3 F.S.SS.
- 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 365. History of American Agriculture I.** (3-0) Cr. 3. F. Prereq: Sophomore classification.
- 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.** (3-0) Cr. 2. F.S.
- Jl MC 101. Mass Media and Society.** (3-0) Cr. 3. F.S.
- KIN 210. Concepts of Fitness and Wellness.** (2-0) Cr. 2 F.S.
- M S 150. Army Physical Readiness** (0-3) Cr. 1. F.S.

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 230. 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 or 134.
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.

(2021-2022 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. 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 on campus. BBQ, a fall trip, service projects at the farm, hayrides, and an annual banquet – 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 advisor, Ben Chamberlain.

Professional Agricultural Student Organization (PAS)

The ISU PAS team has been very successful in state and national competition. The Iowa Professional Agricultural Student Organization (PAS) is an organization associated with agriculture/agribusiness, agriculture technologies, horticulture and natural resources offerings in approved or approvable postsecondary institutions offering certificates, diplomas, associate degrees, and baccalaureate degrees.

PAS is one of the ten career and technical student organizations that has been approved by the U. S. Department of Education as an integral part of career and technical education. We are affiliated with the National Postsecondary Agricultural Students Organization and live out the motto "Uniting Education and Industry in Agriculture." For more information, talk with advisor Nate Dobbels.



**Agricultural Studies
Production and Management Option
Curriculum Requirements
2021-2022 Catalog Requirements
Bachelor of Science Degree**

<u>Credit</u>	<u>Dept</u>	<u>Course No.</u>	<u>Course Title</u>
University Requirements			
3	Engl	150	Critical Thinking and Communication
3	Engl	250	Written, Oral, Visual and Electronic Communication
3	International Perspectives		Select from Approved List
1	Lib	160	Library Instruction
3	US Diversity		Select from Approved List
College of Agriculture and Life Sciences Requirements			
3	AgEdS	311	Presentation & Sales Strategies for Agricultural Audiences
3	Biol	101 or 211	Introductory Biology or General Biology I
5	Chem	163/L	General Chemistry I/Lab
3	Econ	101	Principles of Microeconomics
3	Ethics Elective		Select from Approved List
3	Humanities Elective		Select from Approved List
3	Life Science Elective		Select from Approved List
3	Math	140	College Algebra
3	Stat	104	Introduction to Statistics
Major Specific Requirements			
3	Acct	284	Financial Accounting
1	AgEdS	110B	Orientation
1	AgEdS	215	Career Seminar
3	AgEdS	315	Personal, Prof, and Entrepreneurial Leadership in Agr
3	AgEdS	327	Survey of Agriculture and Life Sciences Communication
3	AgEdS	450	Farm Management and Operation
3	AgEdS	451	Agricultural Law
3	Agron	181	Introduction to Crop Science
3	Agron	182	Introduction to Soil Science
3	Agron	280	Crop Development, Production and Management
2	An S	101	Working with Animals
2	An S	114	Survey of Animal Industry
6	An S Electives		Any level
3	Econ	230	Farm Business Management
3	Econ	235	Introduction to Agricultural Markets
3	Econ Elective		Select from Approved List
3	NREM	120 or 130	Intro to Renewable Resources or Natural Resources in Ag
30	Free Electives		
120	Total Credits		

**Agricultural Studies
Production and Management Option
Approved Course Lists
2020-2021 Catalog Requirements
Bachelor of Science Degree**

International Perspectives Requirements:

Approved Courses List

<https://www.registrar.iastate.edu/students/div-ip-guide/IntlPerspectives-current>

U.S. Diversity Requirements:

Approved Courses List

<http://www.registrar.iastate.edu/students/div-ip-guide/usdiversity-courses>

AgEdS 327 Requirement:

Students can take AgEdS 327 OR Engl 302, 309, 314.

Humanities Elective:

For a complete list refer to

<https://www.cals.iastate.edu/student-services/humanities>

Animal Science Elective:

Students can choose from:

Any animal science course, ENT 201, ENT 211, ENT 372, ENT 374, ENT 471, A ECL 401, A ECL 420I, BIOOL 354, VDPAM 487

Ethics Elective:

Approved Courses List

<https://www.cals.iastate.edu/student-services/ethics>

300 Level Econ Elective:

Students can choose from:

Econ 330, 332, 334, 337, 353, 362, 364, 376, 380, 385.

Life Science Elective:

Approved courses list

<http://www.cals.iastate.edu/student-services/life-science>

**Agricultural Studies
Multidisciplinary Studies Option
Curriculum Requirements
2021-2022 Catalog Requirements
Bachelor of Science Degree**

<u>Credit</u>	<u>Dept</u>	<u>Course No.</u>	<u>Course Title</u>
University Requirements (13)			
3	Engl	150	Critical Thinking and Communication
3	Engl	250	Written, Oral, Visual and Electronic Communication
3		International Perspectives	Select from Approved List
1	Lib	160	Library Instruction
3		US Diversity	Select from Approved List

College of Agriculture and Life Sciences Requirements (29)

3		Biol 101 or 211	Introductory Biology or General Biology I
3		Ethics Elective	Select from Approved List
3		Humanities Elective	Select from Approved List
3		Life Science Elective	Select from Approved List
3	Math	140	College Algebra
5		Physical Science Elective	Select from Approved List
3		Speech Elective	Select from Approved List
3		Social Science Elective	Select from Approved List
3	Stat	104	Introduction to Statistics

Agriculture and Life Sciences Core (8)

1	AGEDS	110	Orientation
1	AGEDS	215	Career Seminar
3	AGEDS	412	Internship
3	AGEDS	490	Independent Study (Capstone Project)

Minors (45)

15	College of Agriculture and Life Sciences Minor		
15	College of Agriculture and Life Sciences Minor		
15	Any Minor		

(Courses may not be double counted among minors)

Free Electives (25)

25	Free Electives
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120 Total Credits

Minimum 36 credits at the 300/400 level

Minimum 2.0 gradepoint average in ISU coursework

C or better in Engl 150, 250, Speech Elective

**Agricultural Studies
Multidisciplinary Studies Option
Approved Course Lists
2021-2022 Catalog Requirements
Bachelor of Science Degree**

International Perspectives Requirements:

Approved courses list

<https://www.registrar.iastate.edu/students/div-ip-guide/IntlPerspectives-current>

U.S. Diversity Requirements:

Approved courses list

<http://www.registrar.iastate.edu/students/div-ip-guide/usdiversity-courses>

Ethics Elective:

Approved courses list

<https://www.cals.iastate.edu/student-services/ethics>

Humanities Elective:

Approved courses list

<https://www.cals.iastate.edu/student-services/humanities>

Life Science Elective:

Approved courses list

<http://www.cals.iastate.edu/student-services/life-science>

Physical Science Elective:

<Insert approved courses here>

Social Science Elective:

Approved courses list

<https://www.cals.iastate.edu/student-services/social-sciences>

Speech Elective:

Select from AGEDS 311, SpCm 212, ComSt 214

CALS Minors:

<p>Agricultural Business</p> <p>Agricultural Systems Technology</p> <p>Agricultural and Life Sciences Education</p> <p style="padding-left: 20px;">Agronomy</p> <p style="padding-left: 20px;">Animal Ecology</p> <p style="padding-left: 20px;">Animal Science</p> <p style="padding-left: 20px;">Biochemistry</p> <p style="padding-left: 20px;">Biology</p> <p style="padding-left: 20px;">Entrepreneurship*</p> <p style="padding-left: 20px;">Environmental Studies</p> <p style="padding-left: 20px;">Feed Technology*</p> <p style="padding-left: 20px;">Food and Society</p> <p style="padding-left: 20px;">Food Safety*</p> <p style="padding-left: 20px;">Food Science</p>	<p>Forestry</p> <p>Genetics</p> <p>Global Health*</p> <p>Horticulture</p> <p>Industrial Technology</p> <p>Insect Science</p> <p>International Agriculture</p> <p>Landscape Management</p> <p>Learning and Leadership Sciences*</p> <p>Meat Science</p> <p>Microbiology</p> <p>Nutrition</p> <p>Sustainability*</p>
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*Denotes interdepartmental minor

Minors from other colleges may be found in the ISU Catalog: <https://catalog.iastate.edu/collegescurricula/#minorstext>

**Agricultural Studies Production & Management Option Eight Semester Plan
2021 - 2022 Catalog**

Semester 1

AgEds 110B	Orientation	1
Econ 101	Principles of Microeconomics	3
Math 140	College Algebra	3
An S 114	Survey of the Animal Industry	2
An S 101	Working with Animals	2
Lib 160	Library Instruction	1
Engl 150	Critical Thinking and Communication	3
		15

Semester 2

Biol 101	Introductory Biology	3
International Persp.	International Perspectives Elective	3
Humanities Elective	Humanities Elective	3
Agron 181	Principles of Crop Science	3
Engl 250	Written, Oral, Visual, & Electronic Comp	3
		15

Semester 3

AgEds 215	Career Seminar	1
Chem 163	College Chemistry 1	4
Chem 163L	College Chemistry 1 Lab	1
Elective	General Elective	6
Econ 235	Introduction to Agricultural Markets	3
		15

Semester 4

Acct 284	Financial Accounting	3
Agron 182	Introduction to Soil Science	3
U.S. Diversity	U.S. Diversity Elective	3
An S Elective	Animal Science Elective	3
Elective	General Elective	3
		16

Semester 5

AnS Elective	Animal Science Elective	3
Ethics Elective	Ethics Elective	3
AgEds 315	Personal & Professional Leadership	3
Stat 104	Introduction to Statistics	3
Elective	General Elective	2
		14

Semester 6

AgEds 311	Presentation & Sales Strategies for Ag Audiences	3
Econ 230	Farm Business Management	3
NREM 120/130	Intro Renewable Resources/Natural Resources & Ag	3
Elective	General Elective	3
Agron 280	Crop Development, Production and Mgmt	3
		15

Semester 7

AgEds 450	Farm Management & Operation	3
Econ 334	Entrepreneurship in Agriculture	3
AgEds 327	Advanced Comm in Ag & Life Sciences	3
Elective	General Elective	2
	Life Science Elective	3
		14

Semester 8

AgEds 450	Agricultural Law	3
Elective	General Elective	13
		16

Total Credits	120
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A 2.00 grade point average is required.

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AGRICULTURE AND LIFE SCIENCES EDUCATION (Communications) 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 communication skills. Two options are available through this major: teacher certification and communication. 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

Degree Audit Description

Agricultural Communication combines the study and practice of communication with food, agriculture, and natural resource systems. Ag Comm students learn to apply communication skills and perspectives in agricultural settings, engaging agriculture-related issues with a variety of audiences through messaging and media, training and facilitation, public engagement, and advocacy. A degree in Agricultural Communication requires 128 total credits.

Agricultural Sciences and Economics (30 Credits)

Students who select the communication 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 12 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 9 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 (45)

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:

9	credits in Interpersonal & Public Communication Skills
17	credits in Math, Physical & Life Sciences
15	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 (39)

The Communication Option of the Agriculture and Life Sciences Education Degree can be tailor-made depending on the area of interest of the individual student. The landscape of agricultural communication is far-reaching and diverse: media (including broadcasting and print), PR and advertising, government agencies and commodity groups, extension and public outreach, and professional communications functions in agricultural companies.

Ag Comm students may choose the type of communication coursework they wish to take based on their interest areas. 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 advisor. 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.

**Agriculture and Life Sciences Education
Communication Option
Curriculum Requirements
2021-2022 Catalog Requirements
Bachelor of Science Degree**

<u>Credit</u>	<u>Dept</u>	<u>Course No.</u>	<u>Course Title</u>
University Requirements			
3	Engl	150	Critical Thinking and Communication
3	Engl	250	Written, Oral, Visual and Electronic Communication
3	International Perspectives		Select from Approved List
1	Lib	160	Library Instruction
3	US Diversity		Select from Approved List
College of Agriculture and Life Sciences Requirements			
3	AgEdS	311	Presentation & Sales Strategies for Agricultural Audiences
3	Biol	211	General Biology I
3	Biol	212	General Biology II
5	Chem	163/L	General Chemistry I/Lab
3	Econ	101 or 102	Principles of Microeconomics/Macroeconomics
3	Ethics Elective		Select from Approved List
3	Humanities Elective		Select from Approved List
3	Math	140	College Algebra
3	Stat	104	Introduction to Statistics
Major Specific Requirements – Professional Communications			
1	AgEdS	110A	Orientation for Agriculture and Life Sciences Education
1	AgEdS	211C	Early Field Based Experience: Ag Industries & Agencies
1	AgEdS	215	Career Seminar
3	AgEdS	315	Personal, Professional & Entrepreneurial Leadership in Ag
3	AgEdS	327	Survey of Agriculture and Life Sciences Communication
6	AgEdS	412	Internship in Agricultural Education and Studies
3	Psych Elective		Any level
21	Communications Electives		Select 21 credits from approved list
Major Specific Requirements – Agricultural Sciences and Economics			
12	Select 1 agricultural area		12 credits, including 6 credits at 300-400 level
6	Select additional agricultural area		6 credits, any level
6	Select additional agricultural area		6 credits, any level
9	Select any agricultural area		9 credits, any level
14	Free Electives		
128	Total Credits		

**Agriculture and Life Sciences Education
Communication Option
Approved Course Lists
2021-2022 Catalog Requirements
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/IntlPerspectives-current>

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.cals.iastate.edu/student-services/humanities>

Ethics Elective:

Approved Courses List

<http://www.cals.iastate.edu/student-services/ethics>

Agricultural Sciences and Economics Areas (33 Credits):

Select any courses from departments of AGRON, AN S, ENT, FOR, FSHN, GLOBE, HORT, NREM, TSM or any of the following Rural Sociology courses: SOC 220, 230, 310, 325, 334, 348, 350, 382, 490B or any of the following Ag Econ courses: ECON 230, 235, 330, 332, 333, 336 or AGEDS 450, 451

Approved Restricted Electives for Agricultural Communication:

Most communication courses in Liberal Arts and Sciences college, including the Greenlee School of Journalism are acceptable in this area subject to approval by your academic advisor. Suggested courses include:

ADVRT: 230, 301

AGEDS: 414

COMST: 101, 214, 218, 310, 314, 317

ENGL: 207, 220, 302, 303, 312, 314

EVENT: 171, 371

JLMC: 101, 201, 242, 347

LDST: 322

MGMT: 310, 370

MKT: 340, 342

PHIL: 206, 380, 480

POL S: 344

PR: 220, 301, 424

SPCM: 312, 327

Iowa State University
College of Agriculture
Agricultural Education Eight Semester Plan
Communication Option*
2021 - 2022 Catalog

Semester 1

AgEds 110A	Orientation	1
Ag Elective	Technical Agricultural Elective	3
Prof Comm Elective	Prof Communications Elec (from list)	3
Engl 150	Critical Thinking and Communication	3
Econ 101 or 102	Principles of MicroEconomics or Macro	3
Math 140	College Algebra	<u>3</u>
		16

Semester 3

AgEdS 211	Early Field Based Experience	1
Biol 212	Principles of Biology II	3
Ag Elective	Technical Agricultural Elective	3
Ethics Elective	Ethics Elective	3
Stat 104	Introduction to Statistics	3
Elective	General Elective	<u>3</u>
		15

Semester 5

AgEds 315	Personal & Professional Leadership	3
Prof Comm Elective	Prof Communications Elec (from list)	3
U.S. Diversity Elective	U.S. Diversity Elective	3
Ag Elective	Technical Agricultural Elective	3
Elective	General Elective	<u>3</u>
		15

Semester 7

AgEds 412	Internship in AgEdS	6
Ag Elective	Technical Agricultural Elective	5
Prof Comm Elective	Prof Communications Elec (from list)	3
Elective	General Elective	<u>3</u>
		17

Semester 2

Biol 211	Principles of Biology I	3
Engl 250	Written, Oral, Visual, & Electronic Comp.	3
Psych Elective	Psychology Elective	3
Free Elective		3
Ag Elective	Technical Agricultural Elective	3
AgEdS 215	Career Seminar	1
Lib 160	Library Instruction	<u>1</u>
		17

Semester 4

Chem 163 & Lab	General Chemistry and Lab	5
Prof Comm Elective	Prof Communications Elec (from list)	3
Ag Elective	Technical Agricultural Elective	6
Int Perspectives Elective	International Perspectives Elective	<u>3</u>
		17

Semester 6

Prof Comm Elective	Prof Communications Elec (from list)	3
Ag Elective	Technical Agricultural Elective	6
AgEds 311	Presentation & Sales Strategies	3
Humanities Elective	Humanities Elective (from list)	<u>3</u>
		15

Semester 8

Prof Comm Elective	Prof Communications Elec (from list)	6
Elective	General Elective	3
Ag Elective	Technical Agricultural Elective	3
AgEdS 327	Survey of Agriculture and Life Science Comm	<u>3</u>
		15

*To meet Ag Elective Requirements, students meet requirements in the following areas:

Select one technical agricultural area in which you will complete at least 12 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

Total Credits **128**

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, food and natural resource systems. *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 agricultural communication. After a couple of organizational meetings, the group elected to begin the process of joining ACT. Dr. Shuyang Qu and Ms. Virginia Hanson serve as advisors 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 (AgLSE) 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 AGLSE, 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 (37 Credits)

The basic core for teacher certification students includes the following courses:

Course #	Credits	Course #	Credits	Course #	Credits
Econ 101	3	Hort 221	3	Econ 230	3
Acct 284	3	AgEdS 315	3	NREM 120	3
Agron 181	3	AgEdS 488	3	Ag Elective	3
Agron 182	3	Ag Elective	3		
An S 114	2				
An S 101	2				

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
6	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 (32 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 advisor 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:

<https://www.ageds.iastate.edu/teacher-education>

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 advisor to ensure proper course work is completed for the endorsement. You may want to reference: <https://www.boee.iowa.gov/endorsements-menu>

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 advisor, 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 advisor.
2. Visit the College of Human Sciences Teacher Education Website at: www.teacher.hs.iastate.edu
3. Refer to <https://catalog.iastate.edu/collegeofhumansciences/schoolofeducation/> from the 2021-2022 ISU Catalog.

The University Teacher Education Program Office has 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.

Pre-Admission Activities

1. Enroll in AgEdS 110A- Orientation
2. Apply for a Background Check completed in Castle branch background system. This can be completed online at: <https://www.education.iastate.edu/background-checks/>
3. Enroll in AgEds 116 – Initial field Experience (Elective)
4. Enroll in AgEdS 211A – Early Field Based Experience in Ag Ed

Once all pre-admission activities are met complete a teacher education application

- This can be completed on TK20 account

Checkpoint 1: Admission to the University Teacher Education Program

Contact Person: Teresa Kahler, 133 MacKay Hall

Phone: 294-7004 Email: takahler@iastate.edu

Timeframe: Students submit this form a minimum of one year before the start of the student teaching semester.

Webpage: <https://www.education.iastate.edu/educator-prep-program/tk20-application/>

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. Documented completion of ISU-approved 10 hours of pre-student teaching field experience.
3. All Curriculum and Instruction (C I), 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. Upload Artifacts from approved courses to the E-portfolio Prior to Application for Student Teaching.

Checkpoint 2: Request for Student Teaching Placement.

Webpage: <http://www.teacher.hs.iastate.edu/studentteaching.php>

Checks:

1. Full admission to the University Teacher Education Program is required before beginning AGEDS 401/402
2. A minimum 2.5 cumulative grade point average.
3. Attend Mandatory Student Teacher 'Round-up'
4. Complete Violent Incident Reduction Training
5. Complete Online Confidential Application (after Round-up) on TK20
6. Complete Professional Biography on TK20
7. Attend the Decision Point 2- individual meeting with University Teacher Services staff
8. Register and take the Praxis II Exam which includes:
- Ag 5701
9. 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.
10. 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), 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. Make appointment for National Background Check (FBI) with Teresa Kahler
2. Attend mandatory student teaching placement meeting- held the week prior to dead week
3. Complete the e-portfolio
4. Apply for licensure

5. A minimum 2.5 cumulative grade point average.
6. All Curriculum and Instruction (C I), 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).
7. 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.

Additional Assistance- UTEP Modules

The [University Teacher Education Program Office](#) 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

<https://www.education.iastate.edu/educator-prep-program/>

IOWA STATE UNIVERSITY
School of Education

News Calendar Search...

Future students Current students Research Outreach Faculty & staff Alumni & visitors

Educator Preparation Program

- Admission
- Practicum and clinical experiences
- Student teaching
- Licensure recommendation
- Cyclone teacher merchandise

Resources

- Annual reports
- Background checks
- Conceptual framework
- Cooperating teachers
- Curriculum requirements
- Educator prep admission application
- EPCC

AGRICULTURAL EDUCATION CLUB

–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 advisors are Dr. Scott Smalley and Dr. Mark Hainline.



<http://www.iowaagteachers.org>

Agriculture and Life Sciences Education

Teacher Certification Option
Curriculum Requirements
2021-2022 Catalog Requirements
Bachelor of Science Degree

<u>Credit</u>	<u>Dept</u>	<u>Course No.</u>	<u>Course Title</u>
University Requirements			
3	Engl	150	Critical Thinking and Communication
3	Engl	250	Written, Oral, Visual and Electronic Communication
3	International Perspectives		Select from Approved List
1	Lib	160	Library Instruction
3	US Diversity		Select from Approved List
College of Agriculture and Life Sciences Requirements			
3	AgEdS	311	Presentation & Sales Strategies for Agricultural Audiences
3	American History Elective		Select from Approved List
4	Biol	211/L	General Biology I/Lab
4	Biol	212/L	General Biology II/Lab
5	Chem	163/L	General Chemistry I/Lab
3	Econ	101	Principles of Microeconomics
3	Ethics Elective		Select from Approved List
3	Math	140	College Algebra
3	Stat	104	Introduction to Statistics
Major Specific Requirements – Agricultural Sciences and Economics <i>C- or higher required</i>			
3	Acct	284	Financial Accounting
6	Ag Elective		Select 6 credits from approved list
3	AgEdS	315	Personal, Prof, and Entrepreneurial Leadership in Ag
3	AgEdS	488	Methods of Teaching Agricultural Mechanics
3	Agron	181	Introduction to Crop Science
3	Agron	182	Introduction to Soil Science
2	An S	101	Working with Animals
2	An S	114	Survey of the Animal Industry
3	Hort	221	Principles of Horticulture
3	Econ	230	Farm Business Management
3	NREM	120	Introduction to Renewable Resources
Major Specific Requirements – Professional Credits <i>C or higher required</i> *			
1	AgEdS	110A	Orientation for Agriculture and Life Sciences Education
1	AgEdS	211A	Early Field Based Experience: High School Ag Programs
3	AgEdS	310	Foundations of Agricultural Education Programs
3	AgEdS	401	Planning Agricultural Education Programs
3	AgEdS	402	Methods of Teaching in Agricultural Sciences/Agribusiness
1	AgEdS	416	Pre-Student Teaching in Agricultural Education Programs
14	AgEdS	417	Supervised Teaching in Agricultural Education Programs
3	EDUC	333	Educational Psychology
3	Psych	230	Developmental Psychology
3	SpEd	401	Teaching Secondary Students w/ Exceptionalities in Gen Ed
15	Free Electives		
128	Total Credits		

**Agriculture and Life Sciences Education
Teacher Certification Option
Approved Course Lists
2021-2022 Catalog Requirements
Bachelor of Science Degree**

International Perspectives Requirements:

Approved Courses List

<http://www.registrar.iastate.edu/students/div-ip-guide/IntlPerspectives-current>

U.S. Diversity Requirements:

Approved Courses List

<http://www.registrar.iastate.edu/students/div-ip-guide/usdiversity-courses>

American History Elective:

Hist 221, 222, 307, 353, 354, 365, 366, 370, 386, 450, 451, 462, 463, 464, 465, 466, 468, 472, 489

Ethics Elective:

Approved Courses List

<https://www.cals.iastate.edu/student-services/ethics>

Ag Elective:

FSHN 101, Hort 332, Hort 131, AgEdS 388, AgEdS 450, AgEdS 451, Econ 235, Econ 332, Econ 334

*C grade requirement not in effect for Psych 230

Iowa State University
College of Agriculture and Life Sciences|
Agricultural Education Eight Semester Plan
Teacher Certification Option*
2021 - 2022 Catalog

Semester 1

AgEdS 110A	Orientation	1
AgEdS 116	Initial Field-based Experience	1
AnS 114	Survey of the Animal Industry	2
Math 140	College Algebra	3
Econ 101	Principles of Microeconomics	3
Engl 150	Critical Thinking and Communication	3
Psych 230	Developmental Psych	3
		16

Semester 2

Ag Elective	Ag Elective From Approved List	3
Engl 250	Written, Oral, Visual, & Electronic Comp	3
Agron 181	Principles of Agronomy	3
An S 101	Working with Animals	2
Biol 211 & Lab	Principles of Biology I & Lab	4
Lib 160	Library Instruction	1
		16

Semester 3

Biol 212 & Lab	Principles of Biology II & Lab	4
Ag Elective	Ag Elective from Approved List	3
NREM 120	Introduction to Renewable Resources	3
Acct 284	Financial Accounting	3
AgEdS 310	Foundations of Ag Education Programs	3
AgEdS 211A	Early Field-Based Experience	1
		17

Semester 4

Chem 163 & Lab	General Chemistry & Lab	5
Ethics Elective	Ethics Elective	3
Stat 104	Introduction to Statistics	3
Amer Hist Elective	American History Elective (from list)	3
Hort 221	Principles of Horticulture	3
		17

Semester 5

Econ 230	Farm Business Management	3
EDUC 333	Educational Psychology	3
AgEdS 315	Personal & Professional Leadership in Agricultur	3
AgEdS 488	Methods of Teaching Ag Mechanics	3
Elective	General Elective	3
		15

Semester 6

Int Perspectives Elective	International Perspectives Elective	3
AgEdS 311	Presentation & Sales Strategies	3
Agron 182	Fundamentals of Soil Science	3
Elective	General Elective	6
		15

Semester 7

AgEdS 401	Planning Ag Education Programs	3
AgEdS 402	Methods of Teaching Agricultural	3
Elective	General Elective	5
EDUC 406/USD	EDUC 406: Social Justice Ed&Teaching or Approved I	3
Sp Ed 401	Teaching Secondary Students w/ Exceptionalities in the General Classroom	3
		17

Semester 8

AgEdS 416	Pre-Student Teaching Experience	1
AgEdS 417	Supervised Teaching Experience	14
		15

Total Credits	128
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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 advisor 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 and graduation plan.

Signed:

(Academic Advisor)

(Date)

**AGRICULTURAL EDUCATION AND STUDIES
PERSONAL INVENTORY AND PLAN**

Agricultural Experience:

1. _____
2. _____
3. _____
4. _____

Personal Strengths:

1. _____
2. _____
3. _____
4. _____

Leadership Experience:

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. _____

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Course Planning Sheet

Name: _____

Agricultural Education & Studies

Date: _____

Note: _____

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Course Planning Sheet

Name: _____

Agricultural Education & Studies

Date: _____

Note: _____

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Course Planning Sheet

Name: _____

Agricultural Education & Studies

Date: _____

Note: _____

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Course Planning Sheet

Name: _____

Agricultural Education & Studies

Date: _____

Note: _____

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Course Planning Sheet

Name: _____

Agricultural Education & Studies

Date: _____

Note: _____

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Course Planning Sheet

Name: _____

Agricultural Education & Studies

Date: _____

Note: _____

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Course Planning Sheet

Name: _____

Agricultural Education & Studies

Date: _____

Note: _____

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Course Planning Sheet

Name: _____

Agricultural Education & Studies

Date: _____

Note: _____

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Fall Semester 20____

Spring Semester 20____

Summer Semester 20____

Dept.	Course No.	Credit

Dept.	Course No.	Credit

Dept.	Course No.	Credit

OK Two year transfer credits fulfilling requirements
Appl'd 4.00 credits 1 sub-group

+ 1) Ensure that no more than 65 two-year transfer credits are fulfilling degree requirements. List below is two-year transfer credits currently fulfilling a requirement. This requirement will read NO if more than 65 two-year transfer crs are used.

SU18 CHEM 163 3.00 C T2 ICCCFD: CHM 110
SU18 CHEM 163L 1.00 C T2 ICCCFD: CHM 111

UNIVERSITY REQUIREMENTS
May also satisfy college or dept requirements

OK INTERNATIONAL PERSPECTIVES MET (3.0 crs)
Appl'd 3.00 credits

S 18 AGEDS 496A 3.00 C

NO U.S. DIVERSITY (3.0 crs)
Complete 3.0 crs from U.S. Diversity list
<http://tinyurl.com/atq6kpi>

Appl'd 2.00 credits

- S 18 H SCI 150 1.00 A
F 18 WGS 160 1.00 S

OK COMMUNICATION/LIBRARY (7.0 crs)
Appl'd 7.00 credits 3 sub-groups 3.50 GPA

+ 1) ENGL 150 (3.0 crs)
F 17 ENGL 150 3.00 A-
+ 2) ENGL 250 (minimum grade C) (3.0 crs)
S 18 ENGL 250 3.00 B+
+ 3) LIB 160 (1.0 cr)
F 17 LIB 160 1.00 S

NO CALS REQUIREMENTS
Some departments require specific courses in these areas. See your adviser for recommended courses.

=====

Appl'd 42.00 credits 8 sub-groups 3.34 GPA
Needs 2 sub-groups

COMMUNICATION PROFICIENCY (9.0 crs)

+ 1) Complete 6.0 crs of English composition
Minimum grade C in each course
www.cals.iastate.edu/student-services/comm-prof
F 17 ENGL 150 3.00 A-
S 18 ENGL 250 3.00 B+
+ 2) SP CM 212, AGEDS 311 or COMST 214 (min grade C)(3 crs)
www.cals.iastate.edu/student-services/comm-prof
F 19 AGEDS 311 3.00 A

HUMANITIES, SOCIAL SCIENCES, & ETHICS (9.0 crs)

+	3) Complete 3.0 crs of Humanities from approved list www.cals.iastate.edu/student-services/humanities	SU18 PHIL 201 3.00 A T2 ICCCFD: PHI 101 F 19 HIST 221 3.00 A-		
+	4) 3.0 crs of Social Sciences from approved list	F 17 ECON 101 3.00 B+ F 18 SOC 230 3.00 B S 19 PSYCH 230 3.00 A		
+	5) 3.0 crs of Ethics from approved list	F 19 AGRON 342 3.00 A		
	LIFE SCIENCES (6.0 crs)			
+	6) BIOL 101, 211, 212 or 251 (3.0 crs) www.cals.iastate.edu/student-services/life-science	F 18 BIOL 211 3.00 C-		
-	7) Complete 3.0 crs of Life Sciences from approved list www.cals.iastate.edu/student-services/life-science	F 17 AN S 114 2.00 B		
	MATH, STATISTICS, & PHYSICAL SCIENCES (11.0 crs)			
+	8) 3.0 crs of Math from approved list	F 17 MATH 104 3.00 B+		
+	9) 3.0 crs of Stat from approved list	F 19 STAT 104 3.00 B		
-	10) Complete 5.0 crs of Physical Science from approved list www.cals.iastate.edu/student-services/math-stat-phys	SU18 CHEM 163 3.00 C T2 ICCCFD: CHM 110 SU18 CHEM 163L 1.00 C T2 ICCCFD: CHM 111		
<hr/>				
MAJOR SPECIFIC REQUIREMENTS				
May also satisfy CALS or university requirements				
<hr/>				
OK	SPEECH (3.0 crs)			
Appl'd	3.00 credits		1 sub-group	4.00 GPA
	F 19 AGEDS 311 3.00 A			
<hr/>				
OK	HUMANITIES-SOCIAL SCIENCES (6.0 crs)			
Appl'd	9.00 credits		3 sub-groups	3.67 GPA
+	1) ECON 101	F 17 ECON 101 3.00 B+		
+	2) PSYCH 230	S 19 PSYCH 230 3.00 A		
+	3) Complete 3.0 crs from approved History list	F 19 HIST 221 3.00 A-		
<hr/>				
OK	LIFE SCIENCES (8.0 crs)			
Appl'd	8.00 credits		2 sub-groups	2.63 GPA
+	1) BIOL 211 and 211L	F 18 BIOL 211 3.00 C- F 19 BIOL 211L 1.00 B		
+	2) BIOL 212 and 212L	S 19 BIOL 212 3.00 B+ S 20 BIOL 212L 1.00 B		

NO	MATH AND PHYSICAL SCIENCES (10.0 crs)		
Appl'd	<i>7.00 credits</i>	<i>2 sub-groups</i>	<i>3.00 GPA</i>
Needs	<i>3.00 credits</i>	<i>1 sub-group</i>	
+	1)(CHEM 163 and 163L) or (CHEM 177 and 177L)		
	SU18 CHEM 163	3.00 C T2	ICCCFD: CHM 110
	SU18 CHEM 163L	1.00 C T2	ICCCFD: CHM 111
-	2)MATH 140		
+	3)STAT 104		
	F 19 STAT 104	3.00 B	

IP	AG SCIENCE & ECONOMICS (34.0 crs)		
	(ALL COURSES MINIMUM GRADE C-)		
Appl'd	<i>28.00 credits</i>	<i>10 sub-groups</i>	<i>3.35 GPA</i>
IN-P...	<i>6.00 credits</i>		
+	1)ACCT 284		
	S 20 ACCT 284	3.00 A-	
+	2)AGRON 181		
	S 19 AGRON 181	3.00 A-	
+	3)AGRON 182		
	S 19 AGRON 182	3.00 B+	
+	4)AN S 114 and AN S 101		
	F 17 AN S 114	2.00 B	
	F 18 AN S 101	2.00 C+	
+	5)HORT 221		
	F 18 HORT 221	3.00 B-	
+	6)ECON 230		
	F 20 ECON 230	3.00 REG	
+	7)NREM 120		
	S 19 NREM 120	3.00 B	
+	8)AGEDS 315		
	S 20 AGEDS 315	3.00 A-	
+	9)AGEDS 488		
	F 20 AGEDS 488	3.00 REG	
+	10)AGRICULTURE ELECTIVE:		
	Complete 6.0 crs from FS HN 101, HORT 131, 332, AGEDS 388, 450, 451, ECON 235, 332 or 334		
	S 20 AGEDS 388	3.00 A	
	S 20 FS HN 101	3.00 A-	

NO	PROFESSIONAL CERTIFICATION OPTION (32.0 crs)		
	(ALL COURSES MINIMUM GRADE C)		
Appl'd	<i>8.00 credits</i>	<i>7 sub-groups</i>	<i>4.00 GPA</i>
IN-P...	<i>9.00 credits</i>		
Needs	<i>15.00 credits</i>	<i>2 sub-groups</i>	
+	3)AGEDS 110A		
	F 17 AGEDS 110A	1.00 A	
+	4)AGEDS 211A		
	F 19 AGEDS 211A	1.00 A	
+	5)AGEDS 310		
	F 19 AGEDS 310	3.00 A	

+	6) AGEDS 401		
	F 20 AGEDS 401	3.00	REG
+	7) AGEDS 402		
	F 20 AGEDS 402	3.00	REG
-	8) AGEDS 416		
-	9) AGEDS 417		
+	1) EDUC 333		
	F 20 EDUC 333	3.00	REG
+	2) SP ED 401		
	S 20 SP ED 401	3.00	A

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.**

Appl'd *27.00 credits*

No more than 6.0 crs. of 490 may count toward graduation

F 17	ENGL 150	3.00	A-		
F 17	MATH 104	3.00	B+		
S 18	AGEDS 490A	3.00	A		
S 18	AGEDS 490B	2.00	A		
S 18	ENGL 250	3.00	B+		
SU18	PHIL 201	3.00	A T2	ICCCFD: PHI	101
F 18	ADVRT 230	3.00	B+		
F 18	AGEDS 116	1.00	B+		
F 18	SOC 230	3.00	B		
F 19	AGRON 342	3.00	A		

+++++

COURSES NOT APPLIED TOWARD DEGREE PROGRAM:

F 17	LIB 160	1.00	S
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IP THE LAST 32.0 CRS FOR A DEGREE MUST BE EARNED AT ISU IF WAIVER ON FILE:
 AREA WILL APPEAR 'OK' DURING TERM OF GRADUATION.
 SEE MEMO SECTION IF APPLICABLE.

+ 1) ****Upon completion of CUR/REG course(s) with acceptable grade(s), the last 32 credits will have been taken at ISU**** If you are currently taking courses from another institution to be transferred to ISU, this message is NOT accurate.

(33.00 credits added)

IN-P... *15.00 credits*

- + 1) Ensure that no more than 65 two-year transfer credits are fulfilling degree requirements. List below is two-year transfer credits currently fulfilling a requirement. This requirement will read NO if more than 65 two-year transfer crs are used.
- | | | | | | |
|------|----------|------|------|-------------|-----|
| F 17 | AN S 101 | 1.00 | A T2 | KCC-CR: AGS | 113 |
| F 17 | AN S 114 | 2.00 | A T2 | KCC-CR: AGS | 113 |

UNIVERSITY REQUIREMENTS
May also satisfy college or dept requirements

OK INTERNATIONAL PERSPECTIVES MET (3.0 crs)

Appl'd 3.00 credits

F 19	AGRON 180	3.00	C
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IP U.S. DIVERSITY MET (3.0 crs)

IN-P... 3.00 credits

F 20	COMST 210	3.00	REG
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OK COMMUNICATION/LIBRARY (7.0 crs)

Appl'd 7.00 credits 3 sub-groups 2.67 GPA

- + 1) ENGL 150 (3.0 crs)

F 19	ENGL 150	3.00	T
------	----------	------	---
- + 2) ENGL 250 (minimum grade C) (3.0 crs)

F 19	ENGL 250	3.00	B-
------	----------	------	----
- + 3) LIB 160 (1.0 cr)

F 19	LIB 160	1.00	S
------	---------	------	---

NO CALS REQUIREMENTS
Some departments require specific courses in these areas. See your adviser for recommended courses.

Appl'd 20.00 credits 6 sub-groups 2.16 GPA

IN-P... 11.00 credits

Needs 4 sub-groups

COMMUNICATION PROFICIENCY (9.0 crs)

- + 1) Complete 6.0 crs of English composition
 Minimum grade C in each course
www.cals.iastate.edu/student-services/comm-prof

F 19	ENGL 150	3.00	T
F 19	ENGL 250	3.00	B-
- 2) SP CM 212, AGEDS 311 or COMST 214 (min grade C)(3 crs)
www.cals.iastate.edu/student-services/comm-prof
 HUMANITIES, SOCIAL SCIENCES, & ETHICS (9.0 crs)
- 3) Complete 3.0 crs of Humanities from approved list
www.cals.iastate.edu/student-services/humanities
- + 4) 3.0 crs of Social Sciences from approved list

F 19	ECON 101	3.00	B-
S 20	PSYCH 101	3.00	B-
F 20	SOC 230	3.00	REG

- 5) Complete 3.0 crs of Ethics from approved list
www.cals.iastate.edu/student-services/ethics
LIFE SCIENCES (6.0 crs)
- + 6) BIOL 101, 211, 212 or 251 (3.0 crs)
www.cals.iastate.edu/student-services/life-science
S 20 BIOL 211 3.00 P
- 7) Complete 3.0 crs of Life Sciences from approved list
www.cals.iastate.edu/student-services/life-science
F 17 AN S 101 1.00 A T2 KCC-CR: AGS 113
MATH, STATISTICS, & PHYSICAL SCIENCES (11.0 crs)
- + 8) 3.0 crs of Math from approved list
F 19 MATH 160 4.00 D
- + 9) 3.0 crs of Stat from approved list
F 20 STAT 104 3.00 REG
- + 10) 5.0 crs of Physical Sciences from approved list
F 20 CHEM 163 4.00 REG
F 20 CHEM 163L 1.00 REG

MAJOR SPECIFIC REQUIREMENTS
May also satisfy CALS or university requirements

NO AGEDS COMMUNICATION (6.0 crs)
Needs 6.00 credits 2 sub-groups

- 1) AGEDS 311
- 2) AGEDS 327

OK HUMANITIES AND SOCIAL SCIENCES (6.0 crs)
Appl'd 6.00 credits 2 sub-groups 2.67 GPA

- + 1) ECON 101 or ECON 102 (3.0 crs)
F 19 ECON 101 3.00 B-
- + 2) Complete 3.0 crs from PSYCH
S 20 PSYCH 101 3.00 B-

NO LIFE SCIENCES (6.0 crs)
Courses in Life Sciences req will not fulfill
Ag & Econ requirement.

Appl'd 3.00 credits 1 sub-group
Needs 3.00 credits 1 sub-group

- + 1) BIOL 211
S 20 BIOL 211 3.00 P
- 2) BIOL 212

IP MATH AND PHYSICAL SCIENCES (10.0 crs)
Appl'd 4.00 credits 3 sub-groups 1.00 GPA
IN-P... 8.00 credits

- + 1) (CHEM 163 and 163L) or (CHEM 177 and 177L)
F 20 CHEM 163 4.00 REG
F 20 CHEM 163L 1.00 REG

- + 2)MATH 140
F 19 MATH 160 4.00 D
- + 3)STAT 104
F 20 STAT 104 3.00 REG

NO AG SCIENCES & ECONOMICS (33.0)

Appl'd 6.00 credits 0 sub-groups 2.00GPA
IN-P... 3.00 credits
Needs 5 sub-groups

Complete 12.0 crs in a selected area of agricultural sciences & economics including 6.0 crs at the 300-400 level; and 6.0 crs each in two additional areas of technical agriculture

- 1) Complete 12.0 crs in a selected area of agricultural science & economics.
F 17 AN S 101 1.00 A T2 KCC-CR: AGS 113
F 17 AN S 114 2.00 A T2 KCC-CR: AGS 113
- 2) At least 6.0 crs of selected agricultural sciences & economics must be 300-400 level
- 3) Complete 6.0 crs of approved AGRON courses
F 19 AGRON 180 3.00 C
- 4) Complete 6.0 crs of approved SOC courses
F 20 SOC 230 3.00 REG
- 5) Complete 9.0 crs agricultural & economics electives

NO PROFESSIONAL COMMUNICATIONS OPTION (33.0)

Appl'd 11.00 credits 3 sub-groups 2.76GPA
IN-P... 1.00 credit
Needs 21.00 credits 3 sub-groups

- + 1) AGEDS 110A
F 19 ECON 110 1.00 A
- + 2) AGEDS 211
F 20 AGEDS 211C 1.00 REG
- + 3) AGEDS 215
S 20 AGEDS 215 1.00 B+
- 4) AGEDS 315
- 5) AGEDS 412
- 6) Complete 21.0 crs from Approved Restricted Electives
S 20 ADVRT 230 3.00 B-
S 20 COMST 101 3.00 C
S 20 P R 220 3.00 B

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.

Appl'd 7.00 credits

+ **TRANSFER COURSES LISTED BELOW MAY BE APPLIED TO ABOVE DEGREE REQUIREMENTS AFTER REVIEW BY YOUR DEPARTMENT. FOR ADDITIONAL INFORMATION CONTACT YOUR ISU ACADEMIC ADVISOR OR DEPARTMENTAL OFFICE.**

No more than 6.0 crs. of 490 may count toward graduation

F 19 ECON 101L 1.00 B-
 F 19 ENGL 150 3.00 T
 F 19 ENGL 250 3.00 B-

+++++

COURSES NOT APPLIED TOWARD DEGREE PROGRAM:

F 19 LIB 160 1.00 S

NO COLLEGE AGRICULTURE & LIFE SCIENCES

Residency Requirement:
 Complete a minimum of 18.0 crs from CALS' departmental offerings, program offerings, and cross-listed program offerings

Appl'd	<i>12.00 credits</i>	<i>1 sub-group</i>	<i>2.67 GPA</i>
IN-P...	<i>4.00 credits</i>		
Needs	<i>2.00 credits</i>	<i>1 sub-group</i>	

- 1) Complete 12.0 crs of AGLS courses 300 level or above

+ 2) Complete an additional 6.0 crs of AGLS courses

F 19 AGRON 180 3.00 C
 F 19 ECON 101 3.00 B-
 F 19 ECON 101L 1.00 B-
 F 19 ECON 110 1.00 A
 S 20 AGEDS 215 1.00 B+
 S 20 BIOL 211 3.00 P
 F 20 AGEDS 211C 1.00 REG
 F 20 SOC 230 3.00 REG

IP TOTALS BY TERM--Degree Audit Calculations
 Top/Down with most CURRENT term at the TOP

F 2020

(0.00 credits added) 0 courses added
 0.00 credits attempted 0.00 points

IN-P... 15.00 credits 6 courses added

S 2020

(16.00 credits added) 6 courses added
 13.00 credits attempted 34.35 points 2.64 GPA

F 2019

(19.00 credits added) 8 courses added
 15.00 credits attempted 32.69 points 2.18 GPA

F 2017

(3.00 credits added) 2 courses added
 0.00 credits attempted 0.00 points

=====

-----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 >- =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

=====
 *****This is an advising tool.*****
 This degree evaluation has been prepared to assist you in
 determining your academic progress at Iowa State University.
 While efforts have been made to ensure its accuracy, final
 responsibility for meeting graduation requirements resides with
 you.

The Office of the Registrar along with your major
 college/department will certify your successful completion of
 degree requirements.

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

- + 1) Ensure that no more than 65 two-year transfer credits are fulfilling degree requirements. List below is two-year transfer credits currently fulfilling a requirement. This requirement will read NO if more than 65 two-year transfer crs are used.

F 17	AGRON 181	3.00	A T2	DMACCA: AGA	114
F 17	AN S 114	3.00	A T2	DMACCA: AGS	113
S 18	MATH 145	5.00	A-T2	DMACCA: MAT	129
F 18	ENGL 150	3.00	A T2	DMACCA: ENG	105
S 19	ENGL 250	3.00	A T2	DMACCA: ENG	106
S 19	HD FS 283	3.00	A T2	DMACCA: FIN	121
S 19	STAT 101	4.00	B T2	DMACCA: MAT	157

UNIVERSITY REQUIREMENTS

May also satisfy college or dept requirements

OK INTERNATIONAL PERSPECTIVES MET (3.0 crs)

Appl'd 3.00 credits

F 19	AGRON 180	3.00	A		
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OK U.S. DIVERSITY MET (3.0 crs)

Appl'd 3.00 credits

S 19	HD FS 283	3.00	A T2	DMACCA: FIN	121
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OK COMMUNICATION/LIBRARY (7.0 crs)

Appl'd 7.00 credits 3 sub-groups

- + 1) ENGL 150 (3.0 crs)

F 18	ENGL 150	3.00	A T2	DMACCA: ENG	105
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- + 2) ENGL 250 (minimum grade C) (3.0 crs)

S 19	ENGL 250	3.00	A T2	DMACCA: ENG	106
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- + 3) LIB 160 (1.0 cr)

F 19	LIB 160	1.00	S		
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NO CALS REQUIREMENTS

Some departments require specific courses in these areas. See your adviser for recommended courses.

Appl'd 29.00 credits 7 sub-groups 4.00GPA

IN-P... 3.00 credits

Needs 3 sub-groups

COMMUNICATION PROFICIENCY (9.0 crs)

- + 1) Complete 6.0 crs of English composition

Minimum grade C in each course

www.cals.iastate.edu/student-services/comm-prof

F 18	ENGL 150	3.00	A T2	DMACCA: ENG	105
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S 19	ENGL 250	3.00	A T2	DMACCA: ENG	106
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- 2) SP CM 212, AGEDS 311 or COMST 214 (min grade C)(3 crs)

www.cals.iastate.edu/student-services/comm-prof

HUMANITIES, SOCIAL SCIENCES, & ETHICS (9.0 crs)

- 3) Complete 3.0 crs of Humanities from approved list

www.cals.iastate.edu/student-services/humanities

- + 4) 3.0 crs of Social Sciences from approved list
 - F 19 ECON 101 3.00 A
 - F 20 ECON 235 3.00 REG
- 5) Complete 3.0 crs of Ethics from approved list
www.cals.iastate.edu/student-services/ethics
 LIFE SCIENCES (6.0 crs)
- + 6) BIOL 101, 211, 212 or 251 (3.0 crs)
www.cals.iastate.edu/student-services/life-science
 - F 19 BIOL 101 3.00 A
- + 7) 3.0 crs of Life Sciences from approved list
 - F 17 AGRON 181 3.00 A T2 DMACCA: AGA 114
 MATH, STATISTICS, & PHYSICAL SCIENCES (11.0 crs)
- + 8) 3.0 crs of Math from approved list
 - S 18 MATH 145 5.00 A-T2 DMACCA: MAT 129
>> matched as: MATH 140
- + 9) 3.0 crs of Stat from approved list
 - S 19 STAT 101 4.00 B T2 DMACCA: MAT 157
- + 10) 5.0 crs of Physical Sciences from approved list
 - S 20 CHEM 163 4.00 P
 - S 20 CHEM 163L 1.00 A

MAJOR SPECIFIC REQUIREMENTS
 May also satisfy CALS or university requirements

- NO** AGEDS COMMUNICATION (6.0 crs)
- Needs** *2 sub-groups*
- 1) AGEDS 311
 - 2) AGEDS 327

- NO** HUMANITIES AND SOCIAL SCIENCES (6.0 crs)
- Appl'd** *3.00 credits* *1 sub-group* *4.00GPA*
- Needs** *3.00 credits* *1 sub-group*
- + 1) ECON 101
 - F 19 ECON 101 3.00 A
 - 2) Complete 3.0 credits from approved Humanities list
 Acceptable courses listed at web site:
<http://tinyurl.com/qexfxtt>

- NO** MATH, PHYSICAL & LIFE SCIENCES (17.0 crs)
- Appl'd** *4 sub-groups* *4.00GPA*
- Needs** *1 sub-group*
- + 1) BIOL 101 or 211
 - F 19 BIOL 101 3.00 A
 - + 2) (CHEM 163 and 163L) or (CHEM 177 and 177L)
 - S 20 CHEM 163 4.00 P
 - S 20 CHEM 163L 1.00 A
 - + 3) MATH 140
 - S 18 MATH 145 5.00 A-T2 DMACCA: MAT 129
>> matched as: MATH 140

- + 4) STAT 104
S 19 STAT 101 4.00 B T2 DMACCA: MAT 157
- 5) Complete 3.0 crs from approved life science list
<http://tinyurl.com/oqmw5nd>

NO AG SCIENCES & ECONOMICS (45.0 crs)

Appl'd	21.00 credits	10 sub-groups	4.00 GPA
IN-P...	10.00 credits		
Needs	14.00 credits	5 sub-groups	

- + 1) ACCT 284 (3.0 crs)
F 20 ACCT 284 3.00 REG
- + 2) AGEDS 110B (1.0 cr)
F 19 AGEDS 110B 1.00 A
- + 3) AGEDS 215 (1.0 crs)
F 20 AGEDS 215 1.00 REG
- 4) AGEDS 315 (3.0 crs)
- 5) AGEDS 450 (3.0 crs)
- 6) AGEDS 451 (3.0 crs)
- + 7) AGRON 181 (3.0 crs)
F 17 AGRON 181 3.00 A T2 DMACCA: AGA 114
- + 8) AGRON 182 (3.0 crs)
F 19 AGRON 182 3.00 A
- + 9) AGRON 280 (3.0 crs)
S 20 AGRON 280 3.00 A
- 10) AN S 101 & 114 (4.0 crs)
S 20 AN S 101 2.00 A
- + OR) AN S 114 (2.0 crs)
F 17 AN S 114 3.00 A T2 DMACCA: AGS 113
- 11) ECON 230 (3.0 crs)
- + 12) ECON 235 (3.0 crs)
F 20 ECON 235 3.00 REG
- 13) ECON 300-level Elective
- + 14) NREM 120 or 130 (3.0 crs)
S 20 NREM 120 3.00 A
- + 15) Complete 6.0 crs from Department of AN S
S 20 AN S 496A 3.00 A
F 20 AN S 225 3.00 REG

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.**

Appl'd	15.00 credits
IN-P...	3.00 credits

+ **TRANSFER COURSES LISTED BELOW MAY BE APPLIED TO ABOVE DEGREE REQUIREMENTS AFTER REVIEW BY YOUR DEPARTMENT. FOR ADDITIONAL INFORMATION CONTACT YOUR ISU ACADEMIC ADVISOR OR DEPARTMENTAL OFFICE.**

No more than 6.0 crs. of 490 may count toward graduation

S 18	AGEDS 2T01	2.00	A T2	DMACCA: AGC	314
S 18	ECON 2T02	3.00	A T2	DMACCA: AGB	331
S 18	ECON 2T03	2.00	A T2	DMACCA: AGB	802
F 18	BUSAD 250	3.00	A T2	DMACCA: BUS	102
F 19	ECON 101L	1.00	A		
S 20	AGRON 217	1.00	P		
F 20	TSM 270	3.00	REG		

Courses from Career and Technical area:
Maximum of 16.0 crs will apply toward degree.

F 15	EGT 0V04	3.00	S TT	DMACCA: EGT	400
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NO COLLEGE AGRICULTURE & LIFE SCIENCES

Residency Requirement:
Complete a minimum of 18.0 crs from CALS' departmental offerings, program offerings, and cross-listed program offerings

Appl'd	26.00 credits	1 sub-group	4.00 GPA
IN-P...	10.00 credits		
Needs		1 sub-group	

- 1) Complete 12.0 crs of AGLS courses 300 level or above

S 20	AN S 496A	3.00	A		
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+ 2) Complete an additional 6.0 crs of AGLS courses

F 19	AGEDS 110B	1.00	A		
F 19	AGRON 180	3.00	A		
F 19	AGRON 182	3.00	A		
F 19	BIOL 101	3.00	A		
F 19	ECON 101	3.00	A		
F 19	ECON 101L	1.00	A		
S 20	AGRON 217	1.00	P		
S 20	AGRON 280	3.00	A		
S 20	AN S 101	2.00	A		
S 20	NREM 120	3.00	A	>> matched as: AGRON 120	
F 20	AGEDS 215	1.00	REG		
F 20	AN S 225	3.00	REG		
F 20	ECON 235	3.00	REG		
F 20	TSM 270	3.00	REG		

IP TOTALS BY TERM--Degree Audit Calculations
Top/Down with most CURRENT term at the TOP

F 2020

(0.00 credits added)	0 courses added
0.00 credits attempted	0.00 points

IN-P...	13.00 credits	5 courses added
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S 2020

(17.00 credits added)	7 courses added	
12.00 credits attempted	48.00 points	4.00 GPA

F 2019

(15.00 credits added)	7 courses added
------------------------	-----------------

	14.00 credits attempted	56.00 points	4.00 GPA
S 2019	(10.00 credits added)	3 courses added	
	0.00 credits attempted	0.00 points	
F 2018	(6.00 credits added)	2 courses added	
	0.00 credits attempted	0.00 points	
S 2018	(12.00 credits added)	4 courses added	
	0.00 credits attempted	0.00 points	
F 2017	(6.00 credits added)	2 courses added	
	0.00 credits attempted	0.00 points	
F 2015	(3.00 credits added)	1 course added	
	0.00 credits attempted	0.00 points	

=====

-----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	>- =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	

*****This is an advising tool.*****

This degree evaluation has been prepared to assist you in determining your academic progress at Iowa State University. While efforts have been made to ensure its accuracy, final responsibility for meeting graduation requirements resides with you.

The Office of the Registrar along with your major college/department will certify your successful completion of degree requirements.

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

Appendix D

Time Management Worksheets

Resume Areas

Class Notes Documents

Weekly Planner for the Week of _____, _____, _____

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
7:00 AM							
7:30 AM							
8:00 AM							
8:30 AM							
9:00 AM							
9:30 AM							
10:00 AM							
10:30 AM							
11:00 AM							
11:30 AM							
12:00 PM							
12:30 PM							
1:00 PM							
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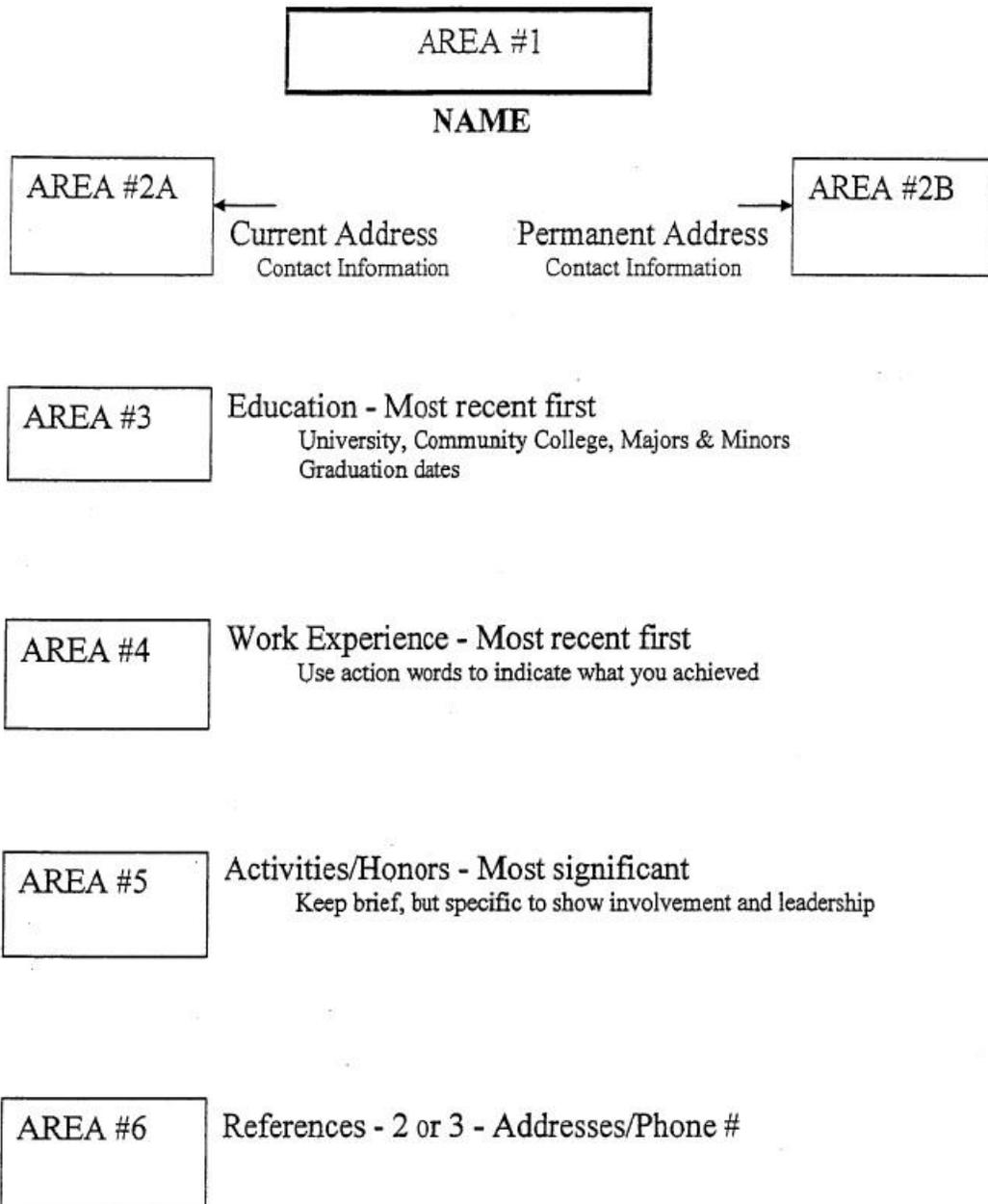
Weekly Planner for the Week of _____, _____, _____

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The Resumé Areas



AGEDS 110 Class Notes

Monday Class Period: August 23, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about

List one thing you are nervous your adventure at ISU?

Additional Notes

AGEDS 110 Class Notes

Wednesday Class Period: August 25, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

What are you most looking forward to during your time at ISU?

Additional Notes

AGEDS 110 Class Notes

Monday Class Period: August 30, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

List subjects or topics you are interested in studying

Additional Notes

AGEDS 110 Class Notes

Wednesday Class Period: September 1, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

List clubs you are interested in learning more about

Additional Notes

AGEDS 110 Class Notes

Monday Class Period: September 6, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

List things you do for fun

Additional Notes

AGEDS 110 Class Notes

Wednesday Class Period: September 8, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

List an accomplishment you are most proud of

Additional Notes

AGEDS 110 Class Notes

Monday Class Period: September 13, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

List a lifelong goal or item on your bucket list

Additional Notes

AGEDS 110 Class Notes

Wednesday Class Period: September 15, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

One thing that has surprised you about ISU

Additional Notes

AGEDS 110 Class Notes

Monday Class Period: September 20, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

Favorite class this semester

Additional Notes

AGEDS 110 Class Notes

Wednesday Class Period: September 22, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

Interested in any minors? If so, which ones?

Additional Notes

AGEDS 110 Class Notes

Monday Class Period: September 27, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

Favorite place to eat on campus

Additional Notes

AGEDS 110 Class Notes

Wednesday Class Period: September 29, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

A question you have specific for Nate and/or Ben

Additional Notes

AGEDS 110 Class Notes

Monday Class Period: October 4, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

Favorite thing at ISU so far

Additional Notes

AGEDS 110 Class Notes

Wednesday Class Period: October 6, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

Favorite building on campus

Additional Notes

AGEDS 110 Class Notes

Monday Class Period: October 11, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

What type of summer experience/internship are you instead in?

Additional Notes

AGEDS 110 Class Notes

Wednesday Class Period: October 13, 2021

Part 1: To be completed during class

Notes from today's class

Part 2: To be completed at the end of class

Questions you have – things you would like more information about.

Advice to future students at ISU

Additional Notes