

College of Agriculture

College of Agriculture

Overview

College of Agriculture

Purdue Agriculture is one of the world's leading colleges that offers food, agricultural, and natural resources programs. We train the next generation, who will drive innovation and discovery to reshape life sciences, biosecurity, the environment, agriculture, and the food system. Purdue Agriculture graduates are in great demand. During the past two decades, more than 90 percent of our graduates were employed or were enrolled in graduate or professional schools within three months of graduation.

Undergraduate Degree

Your undergraduate program will blend courses and experiences in your major with preparation in the life and physical sciences, written and oral communication, social sciences and humanities, multicultural awareness, and international understanding. Professional work experiences, leadership development, participation in student organizations, study abroad, and directed research can add to your professional development.

Graduate Degree

Your master's or doctoral program will be specialized and flexible to prepare you to meet your professional objectives. You'll find that we offer a growing number of multidisciplinary graduate degree programs, using directed experiences and courses from faculty members in one or more Purdue departments or colleges. Business and industry, government, and academic institutions throughout the world recruit our graduates for leading positions.

See www.ag.purdue.edu/oap.

Admissions

<http://www.admissions.purdue.edu/majors/colleges.php?ClgCd=AGR>

Admission to Teacher Education

Teacher Education Program Guidelines 2017-18

Advising

Department	Contact	Phone Number	Email
Agricultural and Biological Engineering	Nate Engelberth	765-494-3060	nengelbe@purdue.edu
Agricultural Economics	LeeAnn Williams	765-494-4201	Leewill@purdue.edu
Agronomy	Lee Schweitzer	765-494-4775	lschweitzer@purdue.edu
Animal Sciences	Ashley York	765-494-4843	ashleyyork@purdue.edu
Biochemistry	Sherry Pogranichniy	765-494-1612	spograni@purdue.edu
Botany and Plant Pathology	Tyson McFall	765-494-0352	tjmcfall@purdue.edu
Entomology	Jonathan Neal	765-494-4594	bugs@purdue.edu
Food Science	Allison Kingery	765-494-2766	foodsci@purdue.edu
Forestry and Natural Resources	J. Barny Dunning	765-494-3565	jdunning@purdue.edu
Horticulture and Landscape Architecture	Horticulture -Michael Dana	765-494-5923	dana@purdue.edu
	Landscape Architecture - Rob Sovinski	765-494-1341	sovinski@purdue.edu
	Sustainable Food & Farming Systems - Steve Hallett	765-494-7649	halletts@purdue.edu
	Turf Management & Science - Cale Bigelow	765-494-4692	cbigelow@purdue.edu
Natural Resources and Environmental Sciences	John Graveel	765-494-4756	nres@purdue.edu
Preveterinary Medicine	Tim Kerr	765-494-8481	prevetinag@purdue.edu
Youth Development and Agricultural Education	Agricultural Education - B. Allen Talbert	765-494-8423	bталbert@purdue.edu
	Agricultural Communication - Mark Tucker		matucker@purdue.edu

Department	Contact	Phone Number	Email
		765-494-8429	

Contact Information

College of Agriculture
615 West State Street
West Lafayette, IN 47907-2053
Email: exp@purdue.edu
Phone: 765-494-8470

College of Agriculture Administration

About Agricultural Administration

Purdue University's College of Agriculture is one of the world's leading colleges of agricultural, food, life, and natural resource sciences. As a land-grant institution, we are committed to preparing our students to make a difference, wherever their careers take them; stretching the frontiers of science to find solutions to some of our most pressing global challenges; and, through Purdue Extension and engagement programs, helping the people of Indiana, the nation and the world improve their lives and livelihoods.

Faculty

<https://ag.purdue.edu/Pages/directory.aspx>

Contact Information

College of Agriculture
615 West State Street
West Lafayette, IN 47907-2053
Email: exp@purdue.edu
Phone: 765-494-8470

Website: <http://ag.purdue.edu/oap/Pages/default.aspx>

Baccalaureate

Natural Resources and Environmental Science: Air Quality Concentration, BS

About the Program

Understand the interactions of living organisms and their relationships to soils, water, and air. Natural Resources and Environmental Science is an interdisciplinary science-based program with concentration areas in Air Quality, Environmental Policy Analysis and Economics, Land Resources, Water Quality, or a student-derived focus area. NRES graduates work for businesses, industries, non-profits, and governmental agencies. Others continue their education in environmental law, teaching, or working in research.

Concentrations include:

- Air Quality
- Emerging Environmental Challenges
- Environmental Policy and Analysis
- Land Resources
- Water Quality

Natural Resources and Environmental Science (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (106-107 credits)

Required Major Courses (10 credits)

- NRES 20000 - Introduction To Environmental Careers
- NRES 23000 - Survey Of Meteorology
or
- AGRY 33500 - Weather And Climate
- NRES 25500 - Soil Science ♦
- NRES 29000 - Introduction To Environmental Science
(satisfies Science, Technology & Society Selective for core)

Other Departmental /Program Course Requirements (96-97 credits)

(See Advising Resources)

- AGECE 40600 - Natural Resource And Environmental Economics

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12200 - Introduction To Natural Resources And Environmental Science Academic Programs

- AGRY 43100 - Atmospheric Thermodynamics
or
- EAPS 42100 - Atmospheric Thermodynamics

- BIOL 11000 - Fundamentals Of Biology I

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry
- EAPS 32000 - Physics Of Climate
- FNR 21000 - Nat Res Info Mgmt
- FNR 35700 - Fundamental Remote Sensing
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II
- POL 22300 - Introduction To Environmental Policy
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Ecology Selective - Credit Hours: 2.00
- Ecology Selective - Credit Hours: 3.00
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 9.00
- Air Quality Selective - Credit Hours: 12.00
- Microeconomics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (13-14 credits)

- Elective - Credit Hours: 13.00-14.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12200 - Introduction To Natural Resources And Environmental Science Academic Programs
- CHM 11100 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I
- NRES 29000 - Introduction To Environmental Science

13-14 Credits

Spring 1st Year

- BIOL 11000 - Fundamentals Of Biology I
- CHM 11200 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- MA 16020 - Applied Calculus II
- Elective - Credit Hours: 4.00

17 Credits

Fall 2nd Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- CHM 25700 - Organic Chemistry
- NRES 25500 - Soil Science ♦
- STAT 30100 - Elementary Statistical Methods
- Microeconomics Selective - Credit Hours: 3.00

17 Credits

Spring 2nd Year

- NRES 23000 - Survey Of Meteorology
or
- AGRY 33500 - Weather And Climate

- NRES 20000 - Introduction To Environmental Careers
- POL 22300 - Introduction To Environmental Policy
- Ecology Selective - Credit Hours: 2.00
- Humanities or Social Science Selective - Credit Hours: 3.00

- Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- AGRY 43100 - Atmospheric Thermodynamics
or
- EAPS 42100 - Atmospheric Thermodynamics

- FNR 35700 - Fundamental Remote Sensing
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 6.00
- Ecology Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- EAPS 32000 - Physics Of Climate
- FNR 21000 - Nat Res Info Mgmt
- Air Quality Concentration Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00
- Written or Oral Communication Selective: 3.00

15 Credits

Fall 4th Year

- AGECE 40600 - Natural Resource And Environmental Economics
- Air Quality concentration selective - Credit Hours: 3.00
- Biochemistry, biology, chemistry, mathematics, physics, or statistics selectives - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year

- Air Quality Concentration Selectives - Credit Hours: 6.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Electives - Credit Hours: 3.00-4.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Natural Resources and Environmental Science: Emerging Environmental Challenges Concentration, BS

About the Program

Understand the interactions of living organisms and their relationships to soils, water, and air. Natural Resources and Environmental Science is an interdisciplinary science-based program with concentration areas in Air Quality, Environmental Policy Analysis and Economics, Land Resources, Water Quality, or a student-derived focus area. NRES graduates work for businesses, industries, non-profits, and governmental agencies. Others continue their education in environmental law, teaching, or working in research.

Concentrations include:

- Air Quality

- Emerging Environmental Challenges
- Environmental Policy and Analysis
- Land Resources
- Water Quality

Natural Resources and Environmental Science (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (105-106 credits)

Required Major Courses (10 credits)

- NRES 20000 - Introduction To Environmental Careers
- NRES 23000 - Survey Of Meteorology
or
- AGRY 33500 - Weather And Climate
- NRES 25500 - Soil Science ♦
- NRES 29000 - Introduction To Environmental Science
(satisfies Science, Technology & Society Selective for core)

Other Departmental /Program Course Requirements (95-96 credits)

- AGECE 40600 - Natural Resource And Environmental Economics
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12200 - Introduction To Natural Resources And Environmental Science Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry
- FNR 21000 - Nat Res Info Mgmt
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II
- POL 22300 - Introduction To Environmental Policy

- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Ecology Selective - Credit Hours: 2.00
- Ecology Selective - Credit Hours: 3.00
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 9.00
- Emerging Environmental Challenges Selective - Credit Hours: 20.00
- Microeconomics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation (satisfies Oral Communication for core)
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (14-15 credits)

- Elective - Credit Hours: 14.00-15.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication

- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12200 - Introduction To Natural Resources And Environmental Science Academic Programs
- CHM 11100 - General Chemistry
- ENGL 10600 - First-Year Composition
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I
- NRES 29000 - Introduction To Environmental Science

13-14 Credits

Spring 1st Year

- BIOL 11000 - Fundamentals Of Biology I
- CHM 11200 - General Chemistry
- COM 11400 - Fundamentals Of Speech Communication
- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- MA 16020 - Applied Calculus II
- Elective - Credit Hours: 4.00

17 Credits

Fall 2nd Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- CHM 25700 - Organic Chemistry
- NRES 25500 - Soil Science ♦
- STAT 30100 - Elementary Statistical Methods
- Microeconomics Selective - Credit Hours: 3.00

17 Credits

Spring 2nd Year

- NRES 23000 - Survey Of Meteorology
or
- AGRY 33500 - Weather And Climate

- NRES 20000 - Introduction To Environmental Careers
- POL 22300 - Introduction To Environmental Policy
- Ecology Selective - Credit Hours: 2.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 6.00
- Emerging Environmental Challenges Selective - Credit Hours: 6.00
- Ecology Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- FNR 21000 - Nat Res Info Mgmt
- Emerging Environmental Challenges Selective - Credit Hours: 6.00
- UCC Humanities Selective - Credit Hours: 3.00

- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGECE 40600 - Natural Resource And Environmental Economics
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 3.00
- Emerging Environmental Challenges Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year

- Emerging Environmental Challenges Selective - Credit Hours: 5.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Electives - Credit Hours: 4.00-5.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Natural Resources and Environmental Science: Environmental Policy and Analysis Concentration, BS

About the Program

Understand the interactions of living organisms and their relationships to soils, water, and air. Natural Resources and Environmental Science is an interdisciplinary science-based program with concentration areas in Air Quality, Environmental Policy Analysis and Economics, Land Resources, Water Quality, or a student-derived focus area. NRES graduates work for businesses, industries, non-profits, and governmental agencies. Others continue their education in environmental law, teaching, or working in research.

Concentrations include:

- Air Quality
- Emerging Environmental Challenges
- Environmental Policy and Analysis
- Land Resources
- Water Quality

Natural Resources and Environmental Science (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (106-107 credits)

Required Major Courses (10 credits)

- NRES 20000 - Introduction To Environmental Careers
- NRES 23000 - Survey Of Meteorology
or
- AGRY 33500 - Weather And Climate
- NRES 25500 - Soil Science ♦
- NRES 29000 - Introduction To Environmental Science (satisfies Science, Technology & Society Selective for core)

Other Departmental /Program Course Requirements (96-97 credits)

- AGECE 40600 - Natural Resource And Environmental Economics
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12200 - Introduction To Natural Resources And Environmental Science Academic Programs
- BIOL 11000 - Fundamentals Of Biology I

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry
- FNR 21000 - Nat Res Info Mgmt
- FNR 37500 - Human Dimensions of Natural Resource Management
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II
- PHIL 29000 - Environmental Ethics
- POL 22300 - Introduction To Environmental Policy
- POL 32700 - Global Green Politics
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Ecology Selective - Credit Hours: 2.00
- Ecology Selective - Credit Hours: 3.00
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 9.00
- Environmental Policy and Analysis Selective - Credit Hours: 12.00
- Microeconomics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (13-14 credits)

- Elective - Credit Hours: 13.00-14.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

Additional Requirements

Select [here](#) for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12200 - Introduction To Natural Resources And Environmental Science Academic Programs
- CHM 11100 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I
- NRES 29000 - Introduction To Environmental Science

13-14 Credits

Spring 1st Year

- BIOL 11000 - Fundamentals Of Biology I
- CHM 11200 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- MA 16020 - Applied Calculus II
- Elective - Credit Hours: 4.00

17 Credits

Fall 2nd Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- CHM 25700 - Organic Chemistry
- NRES 25500 - Soil Science ♦
- STAT 30100 - Elementary Statistical Methods
- Microeconomics Selective - Credit Hours: 3.00

17 Credits

Spring 2nd Year

- NRES 23000 - Survey Of Meteorology
or
- AGRY 33500 - Weather And Climate

- NRES 20000 - Introduction To Environmental Careers
- POL 22300 - Introduction To Environmental Policy
- Ecology Selective - Credit Hours: 2.00

- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- PHIL 29000 - Environmental Ethics
- POL 32700 - Global Green Politics
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 3.00
- Ecology Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- FNR 21000 - Nat Res Info Mgmt
- FNR 37500 - Human Dimensions of Natural Resource Management
- Environmental Policy and Analysis Concentration Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGE 40600 - Natural Resource And Environmental Economics
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 6.00
- Environmental Policy and Analysis Concentration Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year

- Environmental Policy and Analysis Concentration Selective - Credit Hours: 6.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- Elective - Credit Hours: 3.00-4.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Natural Resources and Environmental Science: Land Resources Concentration, BS

About the Program

Natural Resources and Environmental Science (multiple concentrations). Understand the interactions of living organisms and their relationships to soils, water, and air. Natural Resources and Environmental Science is an interdisciplinary science-based program with concentration areas in Air Quality, Environmental Policy Analysis and Economics, Land Resources, Water Quality, or a student-derived focus area. NRES graduates work for businesses, industries, non-profits, and governmental agencies. Others continue their education in environmental law, teaching, or working in research.

Concentrations include:

- Air Quality
- Emerging Environmental Challenges
- Environmental Policy and Analysis

- Land Resources
- Water Quality

Natural Resources and Environmental Science (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (107-108 credits)

Required Major Courses (10 credits)

- NRES 20000 - Introduction To Environmental Careers
- NRES 23000 - Survey Of Meteorology
or
- AGRY 33500 - Weather And Climate
- NRES 25500 - Soil Science ♦
- NRES 29000 - Introduction To Environmental Science (satisfies Science, Technology & Society Selective for core)

Other Departmental /Program Course Requirements (97-98 credits)

- AGECE 40600 - Natural Resource And Environmental Economics
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12200 - Introduction To Natural Resources And Environmental Science Academic Programs
- AGRY 38500 - Environmental Soil Chemistry
- AGRY 45000 - Soil Conservation and Water Management
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry
- FNR 21000 - Nat Res Info Mgmt
- FNR 37500 - Human Dimensions of Natural Resource Management
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II
- POL 22300 - Introduction To Environmental Policy

- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Ecology Selective - Credit Hours: 2.00
- Ecology Selective - Credit Hours: 3.00
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 9.00
- Land Resources Selective - Credit Hours: 12.00
- Microeconomics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
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- ENGL 10800 - Accelerated First-Year Composition
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- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation (satisfies Oral Communication for core)
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (12-13 credits)

- Elective - Credit Hours: 12.00-13.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication

- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12200 - Introduction To Natural Resources And Environmental Science Academic Programs
- CHM 11100 - General Chemistry
- ENGL 10600 - First-Year Composition
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I
- NRES 29000 - Introduction To Environmental Science

13-14 Credits

Spring 1st Year

- BIOL 11000 - Fundamentals Of Biology I
- CHM 11200 - General Chemistry
- COM 11400 - Fundamentals Of Speech Communication
- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- MA 16020 - Applied Calculus II
- Elective - Credit Hours: 4.00

17 Credits

Fall 2nd Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- CHM 25700 - Organic Chemistry
- NRES 25500 - Soil Science ♦
- STAT 30100 - Elementary Statistical Methods
- Microeconomics Selective - Credit Hours: 3.00

17 Credits

Spring 2nd Year

- NRES 23000 - Survey Of Meteorology
or
- AGRY 33500 - Weather And Climate

- NRES 20000 - Introduction To Environmental Careers
- POL 22300 - Introduction To Environmental Policy
- Ecology Selective - Credit Hours: 2.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- AGRY 45000 - Soil Conservation and Water Management
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 6.00
- Ecology Selective - Credit Hours: 3.00
- Land Resources Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- FNR 21000 - Nat Res Info Mgmt
- FNR 37500 - Human Dimensions of Natural Resource Management
- UCC Humanities Selective - Credit Hours: 3.00
- Land Resources Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGE 40600 - Natural Resource And Environmental Economics
- AGRY 38500 - Environmental Soil Chemistry
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 4th Year

- Land Resources Selective - Credit Hours: 6.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Elective - Credit Hours: 2.00-3.00

11-12 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

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Natural Resources and Environmental Science: Water Quality Concentration, BS

About the Program

Understand the interactions of living organisms and their relationships to soils, water, and air. Natural Resources and Environmental Science is an interdisciplinary science-based program with concentration areas in Air Quality, Environmental Policy Analysis and Economics, Land Resources, Water Quality, or a student-derived focus area. NRES graduates work for businesses, industries, non-profits, and governmental agencies. Others continue their education in environmental law, teaching, or working in research.

Concentrations include:

- Air Quality
- Emerging Environmental Challenges
- Environmental Policy and Analysis
- Land Resources
- Water Quality

Natural Resources and Environmental Science (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (106-107 credits)

Required Major Courses (10 credits)

- NRES 20000 - Introduction To Environmental Careers
- NRES 23000 - Survey Of Meteorology
or
- AGRY 33500 - Weather And Climate

- NRES 25500 - Soil Science ♦
- NRES 29000 - Introduction To Environmental Science (satisfies Science, Technology & Society Selective for core)

Other Departmental /Program Course Requirements (96-97 credits)

- AGE 40600 - Natural Resource And Environmental Economics
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12200 - Introduction To Natural Resources And Environmental Science Academic Programs
- AGRY 33700 - Environmental Hydrology
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science
- CE 35500 - Engineering Environmental Sustainability
- CHM 11100 - General Chemistry
- CHM 11200 - General Chemistry
- CHM 25700 - Organic Chemistry
- FNR 20100 - Marine Biology
- FNR 21000 - Nat Res Info Mgmt
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II
- POL 22300 - Introduction To Environmental Policy
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Ecology Selective - Credit Hours: 2.00
- Ecology Selective - Credits Hours: 3.00
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 9.00
- Water Quality Selective - Credit Hours: 12.00
- Microeconomics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (13-14 credits)

- Elective - Credit Hours: 13.00-14.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Requirements

Select here for additional lists.

Program Requirements

Spring 1st Year

- BIOL 11000 - Fundamentals Of Biology I
- CHM 11200 - General Chemistry
- COM 11400 - Fundamentals Of Speech Communication

- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- MA 16020 - Applied Calculus II
- Elective - Credit Hours: 4.00

17 Credits

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12200 - Introduction To Natural Resources And Environmental Science Academic Programs
- CHM 11100 - General Chemistry
- ENGL 10600 - First-Year Composition
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I
- NRES 29000 - Introduction To Environmental Science

13-14 Credits

Fall 2nd Year

- BIOL 11100 - Fundamentals Of Biology II
- or
- BTNY 11000 - Introduction To Plant Science

- CHM 25700 - Organic Chemistry
- NRES 25500 - Soil Science ♦
- STAT 30100 - Elementary Statistical Methods
- Microeconomics Selective - Credit Hours: 3.00

17 Credits

Spring 2nd Year

- NRES 23000 - Survey Of Meteorology
- or

- AGRY 33500 - Weather And Climate
- NRES 20000 - Introduction To Environmental Careers
- POL 22300 - Introduction To Environmental Policy
- Ecology Selective - Credit Hours: 2.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- CE 35500 - Engineering Environmental Sustainability
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 6.00
- Ecology Selective - Credit Hours: 3.00
- Water Quality Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- AGRY 33700 - Environmental Hydrology
- FNR 21000 - Nat Res Info Mgmt
- UCC Humanities Selective - Credit Hours: 3.00
- Water Quality Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGECE 40600 - Natural Resource And Environmental Economics
- FNR 20100 - Marine Biology
- Biochemistry, Biology, Chemistry, Mathematics, Physics, or Statistics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year

- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Water Quality Concentration Selectives - Credit Hours: 6.00
- Electives - Credit Hours: 3.00-4.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

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Certificate

Deans Scholar Certificate

Selection criteria:

- All students who enter Purdue University College of Agriculture as recipients of the Board of Trustees Scholarship are encouraged to apply to the Dean's Scholars Program as are others fulfilling the following criteria:

- 3.8/4.0 High School GPA and 1800 SAT/ACT 27 and above
OR
- Valedictorian of high school
- First semester students will be asked to accept a Dean's Scholar status by May 15, 2015 and must accept the invitation prior to fall semester.
- Second semester freshmen, sophomores, and transfer students with 60 credits remaining at Purdue may apply if they have a GPA equal to or greater than 3.5. A written essay stating why the student is interested in being a Dean's Scholar is part of the formal application process. Review of applications will be administered by the Office of Academic Programs and the Departmental Honors Coordinator from the department in which the student is enrolled.

Program Requirements

For more information, please visit the Dean's Scholars Website

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 29000 - Special Topics In Agriculture
(Dean's Scholars Program)
- AGR 1XXXX – AGR 11100, 11200, 11300, 11400, 11500, 11700, 11800, 11900, 12000, 12100, 12200, 12400 and 12500 Selective courses
- 12 honors credits – HONR 10000-59999 or any course that has an Honors Attribute.
- 1-3 Research credits – ABE 49800, 49900, AGE 37500, AGRY 49900, ANSC 49900, ASM 49900, BCHM 29800, 29801, 49800, 49801, BTNY 49900, FNR 490000, 58000, FS 49900, HORT 49900, NRES 41000, YDAE 49700

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Leadership Development Certificate

Program's Philosophy

The following philosophy about leadership was adopted by the College of Agriculture faculty on August 25, 2005. These beliefs serve as the foundation for the Leadership Development Certificate Program.

We believe that all students can and should exercise leadership. Leadership does not require formal authority or position and can be practiced by anyone interested in making a difference in his/her family, workplace, and community.

Leadership is a process of people working together toward common goals that bring about positive change. The effectiveness of leadership is based on trusting relationships. Through this exchange, people influence one another's thoughts and actions. By incorporating the diverse skills and viewpoints of others, individuals are empowered and group energy is mobilized to pursue collective goals. Decisions are made and actions are taken.

The development of leadership begins with personal initiative and an understanding of one's passions, motivations, strengths, limitations, and personal values. This also includes an understanding of the ethical nature of leadership as it relates to one's character and a commitment to act with trustworthiness, respect, responsibility, fairness, caring, and citizenship.

This process of self-discovery is ongoing and requires a commitment to lifelong learning through getting involved, reflecting on the experience, and stretching oneself to meet new challenges. The purpose of leadership development is not only for the benefit of oneself, but also to enable one to be a more effective leader in addressing important issues that affect oneself and others.

Leadership Competencies

The Leadership Development Certificate Program includes four general areas of leadership development and 13 specific skill areas. The faculty expects you to develop at least one skill in each of the four areas during this program.

- Personal leadership development
 - Understands leadership
 - Increases self-awareness
 - Practices ethical behavior
 - Sustains leadership over time
- Interpersonal leadership development
 - Values diversity
 - Enhances communication skills
 - Manages conflict
- Group and organizational leadership development
 - Develops teams
 - Leads change
 - Manages projects
- Community leadership development
 - Practices citizenship
 - Understands community
 - Serves others

Coaches

After you submit a Statement of Intent and a resume, you will be matched with a faculty or administrative professional staff member to guide and support you on your leadership journey. S/he will help you identify your leadership goals, connect you with campus resources, and encourage you to stretch yourself beyond your comfort zone by seeking out new leadership opportunities. The program, however, is yours, and the quality of your learning experiences is up to you.

Program Requirements

1. Submit a Statement of Intent with a resume electronically to ldcp@purdue.edu.
2. Contact the coach who has been assigned to you.
3. Complete the [Leadership Skills and Attributes Self-Assessment](#).
4. Complete a [Personal Development Plan](#).
5. Earn five points to receive a badge in [personal leadership development](#).
6. Earn five points to receive a badge in [interpersonal leadership development](#).
7. Earn five points to receive a badge in [group/organizational leadership development](#).
8. Earn five points to receive a badge in [community leadership development](#).
9. Write reflection papers on each leadership activity.
10. Write a reflection paper on each badge earned.
11. Develop an electronic portfolio that documents your progress on your goals and how you reached them in each of the four major areas.

Everyone has leadership potential. Let LDCP help you tap yours!

In LDCP you will gain leadership experience tailored to you and your situation, enjoy one-on-one coaching, and develop the "soft skills" employers today are looking for. And when you complete LDCP and earn your certificate, it will appear on your academic transcript.

You are eligible for LDCP if you:

- Are enrolled as an undergraduate in the Purdue College of Agriculture
- Have at least three semesters remaining on campus before graduation
- Remain in good academic standing

Leadership Development Certificate Program

Disclaimer

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Minor

International Studies in Agriculture Minor

15 Credits Required

Requirements for the Minor:

Basic Requirements:

- Credit in a foreign language through the fourth course (and one conversation course, if offered).
- In most cases, the language studied must be one spoken in the country or region in which the overseas experience is completed.
- Students whose overseas experience is in an English-speaking country may meet the language requirement by studying any foreign language.
- Students whose overseas experience is in a country whose language is not taught at Purdue may substitute any other language spoken in that region of the world.
- Fifteen credits of coursework with an international focus (See Below).
- At least six credits of this coursework should focus on the country/region of the student's overseas experience.
- Additional language courses can be used only if they are nonlinguistic in nature (i.e., literature, culture, etc).
- A minimum of six credits should be completed outside of the College of Agriculture.
- At least eight weeks abroad participating in an approved study abroad, cooperative work experience, internship, or cultural exchange.
- Completion and presentation of a summary paper in a seminar format which assimilates all components of the International Studies Minor.

Selective Courses: (15 credits)

- AGEC 25000 - Economic Geography Of World Food And Resources
- AGEC 34000 - International Economic Development
- AGEC 45000 - International Agricultural Trade
- AGEC 49800 - Special Problems (Afghanistan Development Challenges)
- ANTH 10000 - Introduction To Anthropology
- ANTH 20500 - Human Cultural Diversity
- ANTH 39200 - Selected Topics In Anthropology
- CLCS 23010 - Survey Of Greek Literature In Translation
- CLCS 23100 - Survey Of Latin Literature
- CLCS 23200 - Classical Roots Of English Words
- CLCS 23300 - Comparative Mythology
- CLCS 23500 - Introduction To Classical Mythology
- CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity
- CLCS 23800 - The Tragic Vision
- CLCS 23900 - The Comic Vision
- CLCS 33900 - Literature And The Law
- ECON 37000 - International Trade
- ECON 46600 - International Economics
- ENGL 26600 - World Literature: From The Beginnings To 1700 A.D.
- ENGL 26700 - World Literature: From 1700 A.D. To The Present
- FLL 10000 - 5999 any course - Credit Hours: 3.00
- HIST 24000 - East Asia And Its Historic Tradition
- HIST 24100 - East Asia In The Modern World
- HIST 24300 - South Asian History And Civilizations
- HIST 24500 - Introduction To The Middle East History And Culture
- HIST 24600 - Modern Middle East And North Africa
- HIST 27100 - Introduction To Colonial Latin American History (1492-1810)
- HIST 27200 - Introduction To Modern Latin American History (1810 To The Present)
- HIST 30000 - Eve Of Destruction: Global Crises And World Organization In The 20th Century
- HIST 30200 - Historical Topics
- HIST 32300 - German History
- HIST 32400 - Modern France
- HIST 34000 - Modern China
- HIST 34100 - History Of Africa South Of The Sahara
- HIST 34200 - Africa And The West
- HIST 34300 - Traditional Japan
- HIST 34400 - History Of Modern Japan
- HIST 40800 - Dictatorship And Democracy: Europe 1919-1945
- HIST 43900 - Communist China
- HIST 47200 - History Of Mexico
- HIST 59500 - The Holocaust And Genocide
- PHIL 11000 - Introduction To Philosophy
- PHIL 23000 - Religions Of The East
- PHIL 23100 - Religions Of The West
- POL 13000 - Introduction To International Relations

- POL 14100 - Governments Of The World
- POL 23100 - Introduction To United States Foreign Policy
- POL 23200 - Contemporary Crises In International Relations
- POL 23500 - International Relations Among Rich And Poor Nations
- POL 23700 - Modern Weapons And International Relations
- POL 32700 - Global Green Politics
- POL 34500 - West European Democracies In The Post-Industrial Era
- POL 34800 - East Asian Politics
- POL 43300 - International Organization
- POL 43400 - United States Foreign Policy, Central America And The Caribbean
- POL 43500 - International Law

Notes

- Credits earned via a Purdue approved Study Abroad Program can be used as long as they fulfill the basic requirements listed above. Namely, focus on the country/region, etc.
- Departmental permission is required to enroll in this minor. Please contact Tim Kerr in Room 121 of the Agricultural Administration Building.
- Students must have their Plan of Study approved a minimum of six months prior to graduation.

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Natural Resources and Environmental Science Minor

15 Credits Required

Requirements for the Minor

Required Course (3 credits)

- NRES 29000 - Introduction To Environmental Science

Selective Courses (12 credits)

General Environmental Science Emphasis

- FNR 21000 - Nat Res Info Mgmt
- NRES 23000 - Survey Of Meteorology
- NRES 25500 - Soil Science
- POL 22300 - Introduction To Environmental Policy

Ecology Emphasis

- AGRY 34900 - Soil Ecology
- BIOL 48300 - Great Issues: Environmental And Conservation Biology
- ENTM 31100 - Insect Ecology

Policy and Economic Emphasis

- AGECE 40600 - Natural Resource And Environmental Economics
- FNR 37500 - Human Dimensions of Natural Resource Management
- POL 32700 - Global Green Politics

Land Resources Emphasis

- ABE 32500 - Soil And Water Resource Engineering
- AGRY 33700 - Environmental Hydrology
- ASM 33600 - Environmental Systems Management
- NRES 38500 - Environmental Soil Chemistry

Sustainability Emphasis

- AD 39700 - Sustainability In The Built Environment
- BCM 51000 - Topics In Environmentally Sustainable Construction, Design And Development
- CE 35500 - Engineering Environmental Sustainability

Water Quality Emphasis

- ABE 32500 - Soil And Water Resource Engineering
- AGRY 12000 - Water And Food Security
- AGRY 33700 - Environmental Hydrology

Note

Department permission is not required to enroll in this minor.

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Pre-Program

Pre-Environmental Studies

The Pre-Environmental Studies program of study is intended to serve as a portal for students entering Purdue with an interest in environmental studies who are undecided as to the specific program of study in which they want to enroll.

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12200 - Introduction To Natural Resources And Environmental Science Academic Programs
- CHM 11100 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I
- NRES 29000 - Introduction To Environmental Science

13-14 Credits

Spring 1st Year

- BIOL 11000 - Fundamentals Of Biology I
or
- BTNY 11000 - Introduction To Plant Science
- CHM 11200 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- MA 16020 - Applied Calculus II
- Elective - Credit Hours: 3.00 - 4.00

16 - 17 Credits

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Pre-Landscape Architecture

See the program **Landscape Architecture, BSLA** for information.

Fall 1st Semester

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- ENGL 10600 - First-Year Composition
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing
- LA 10110 - Survey Of Landscape Architecture ♦
- LA 11600 - Graphic Communication For Students Of Landscape Architects And Design
- LA 16100 - Land And Society

14-15 Credits

Spring 2nd Semester

- BIOL 11100 - Fundamentals Of Biology II
- or
- BTNY 11000 - Introduction To Plant Science
- COM 11400 - Fundamentals Of Speech Communication
- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- LA 21600 - Landscape Architectural Design I ♦
- MA 15800 - Precalculus- Functions And Trigonometry
- Art and Design Selective - Credit hours: 3.00

16 Credits

Disclaimer

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Pre-Veterinary Medicine

About the Program

Preveterinary medicine is not really a major, but rather is a collection of prerequisites for admission to Purdue's College of Veterinary Medicine. Students may enter the College of Agriculture in this category, but later must pick a major to pursue. Students pursuing a wide variety of curricula may apply and be admitted to a veterinary college.

The preveterinary medicine curriculum includes courses that are required for admission to the Doctor of Veterinary Medicine degree program offered by the Purdue College of Veterinary Medicine. This program of study, coordinated by the College of Agriculture Office of Academic Programs, emphasizes the biological and physical sciences that are foundations for successful study of veterinary medicine. Also, the curriculum includes courses in communication and the social sciences.

Preveterinary Medicine OAP • Pre-Professional

93 Credits Required

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12400 - Introduction To College Of Agriculture Pre Veterinary Medicine Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11500 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I ♦

15-16 Credits

Spring 2nd Year

- BIOL 11100 - Fundamentals Of Biology II
- CHM 11600 - General Chemistry ♦
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- MA 16020 - Applied Calculus II
- VM 10200 - Careers In Veterinary Medicine

15 Credits

Fall 2nd Year

- ANSC 22100 - Principles Of Animal Nutrition
- BIOL 23100 - Biology III: Cell Structure And Function
- BIOL 23200 - Laboratory In Biology III: Cell Structure And Function
- CHM 25500 - Organic Chemistry
- CHM 25501 - Organic Chemistry Laboratory
- UCC Science, Technology and Society Selective - Credit Hours: 3.00

15 Credits

Spring 2nd Year

- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory
- Agricultural Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- BCHM 30700 - Biochemistry
- PHYS 22000 - General Physics
- STAT 30100 - Elementary Statistical Methods
- Agricultural Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- BIOL 22100 - Introduction To Microbiology
- PHYS 22100 - General Physics
- Humanities or Social Science Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00

14 Credits

Notes

Pre-veterinary medicine is not really a major, but rather is a collection of prerequisites for admission to Purdue's College of Veterinary Medicine. Students may enter the College of Agriculture in Pre-Vet, but later must pick a major to pursue. Students pursuing a wide variety of curricula may apply and be admitted to a veterinary college.

The pre-veterinary medicine curriculum includes courses that are required for admission to the Doctor of Veterinary Medicine degree program offered by the Purdue College of Veterinary Medicine. This program of study, coordinated by the College of Agriculture Office of Academic Programs, emphasizes the biological and physical sciences that are foundations for successful study of veterinary medicine. Also, the curriculum includes courses in communication and the social science.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and provides an idea of course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

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Department of Agricultural and Biological Engineering

Overview

Welcome to the Department of Agricultural & Biological Engineering at Purdue University. Our mission is to prepare students, citizens, and industry for the future through innovative education and extension/outreach programs and the discovery of knowledge.

Our cross-disciplinary strengths include academic and research programs in agriculture, biology, and engineering, as well as dual degree programs. Our engineering degrees are granted by the College of Engineering and our agricultural systems management degree is granted by the College of Agriculture. The job market remains strong for our graduates who have excellent career opportunities, and demand for our graduates is very high.

Our faculty, students and staff are pursuing cutting-edge research that improves quality of life as well as advances scientific and engineering frontiers. Our extension programs are helping citizens of Indiana and beyond improve their lives.

Faculty

<https://engineering.purdue.edu/ABE/People/ptFaculty>

Contact Information

Department of Agricultural & Biological Engineering

Purdue University

Agricultural and Biological Engineering Building

225 South University Street
West Lafayette, IN 47907-2093
Phone: (765) 494-1162
Fax: (765) 496-1115
engineering.purdue.edu/ABE

joinabe@ecn.purdue.edu

The Main office for the department is located in Room 201 of the ABE Building.

Graduate Information

For Graduate Information please see Agricultural and Biological Engineering Graduate Program Information.

Baccalaureate

Agricultural Engineering, BSAGE

About the Program

Agricultural engineers apply their knowledge of agricultural systems, natural resources, and engineering to equipment design and assure environmental compatibility of practices used by production agriculture. The Agricultural Engineering curriculum offers great breadth, with specialization choices in machine systems engineering and environmental and natural resources engineering. Subject areas include computer-aided engineering, fluid power, finite element analysis, natural resource conservation, and engineering properties of biological materials. Excellent career opportunities exist in product engineering, equipment research and design, facilities design, environmental consulting, and engineering management.

Degree Requirements

128 Credits Required

Departmental/Program Major Courses (125 - 126 credits)

Required Major Courses (34 credits)

- ABE 20500 - Computations For Engineering Systems
- ABE 21000 - Thermodynamics Principles Of Engineering And Biological Systems
- ABE 29000 - Sophomore Seminar (satisfies Science, Technology, and Society for the core)
- ABE 30500 - Physical Properties Of Biological Materials
- ABE 31400 - Design Of Electronic Systems
- ABE 32000 - Solid Modeling, Simulation, And Analysis
- ABE 32500 - Soil And Water Resource Engineering
- ABE 33000 - Design Of Machine Components
- ABE 43500 - Hydraulic Control Systems For Mobile Equipment
- ABE 45000 - Finite Element Method In Design And Optimization
- ABE 48400 - Project Planning And Management
- ABE 48600 - Agricultural Engineering Design
- ABE 49000 - Professional Practice In Agricultural And Biological Engineering

Other Departmental /Program Course Requirements (91 - 92 credits)

- ENGR 13100 - Transforming Ideas To Innovation I (satisfies Information Literacy for core)
- ENGR 13200 - Transforming Ideas To Innovation II
- CHM 11500 - General Chemistry (satisfies Science #1 for core)

- CHM 11600 - General Chemistry
or
- CS 15900 - Programming Applications For Engineers

- MA 16500 - Analytic Geometry And Calculus I (satisfies Quantitative Reasoning for core)
- MA 16600 - Analytic Geometry And Calculus II
- MA 26100 - Multivariate Calculus
- MA 26200 - Linear Algebra And Differential Equations
- PHYS 17200 - Modern Mechanics (satisfies Science #2 for the core)
- PHYS 24100 - Electricity And Optics
- ME 27000 - Basic Mechanics I
- ME 27400 - Basic Mechanics II ♦
- NUCL 27300 - Mechanics Of Materials

- CE 34000 - Hydraulics
and
- CE 34300 - Elementary Hydraulics Laboratory

- Engineering Technical Selective - Credits: 3.00
- Engineering Technical Selective - Credits: 3.00
- AGRY 25500 - Soil Science
- Agricultural Selective - Credit Hours: 3.00
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing (satisfies Written Communication for core)

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills (satisfies Oral Communication for core)

- Written and Oral Communication Selective - Credit Hours: 3.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

Electives (2 - 3 credits)

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree.
- 32 Upper division credits taken from Purdue
- 6 credits International Understanding
- 3 credits Multicultural Awareness
- 6 credits - 3 credit hours from the Written/Oral Communication or Social Science and Humanities categories must come from 30000+ courses or above, and an additional 3 credit hours from the Written/Oral Communication or Social Science and Humanities categories must come from 30000+ or above or from a course with a required pre-requisite in the same department.
- 9 credits of Humanities and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, [click here](#).

Additional Degree Requirements

For selective lists click Biological Science selectives, Ag Economics selectives, Agricultural selectives, and XEAG Engineering Technical selectives.

Program Requirements

Fall 1st Year

- ENGR 13100 - Transforming Ideas To Innovation I
- UCC Humanities Selective - Credit Hours: 3.00

- MA 16500 - Analytic Geometry And Calculus I
- CHM 11500 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

16-17 Credits

Spring 1st Year

- ENGR 13200 - Transforming Ideas To Innovation II
- MA 16600 - Analytic Geometry And Calculus II
- PHYS 17200 - Modern Mechanics
- CHM 11600 - General Chemistry
or
- CS 15900 - Programming Applications For Engineers
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

16-17 Credits

Fall 2nd Year

- ABE 20500 - Computations For Engineering Systems
- ABE 29000 - Sophomore Seminar
- MA 26100 - Multivariate Calculus
- ME 27000 - Basic Mechanics I
- PHYS 24100 - Electricity And Optics
- Economics Selective - Credit Hours: 3.00

17 Credits

Spring 2nd Year

- ABE 21000 - Thermodynamics Principles Of Engineering And Biological Systems
- MA 26200 - Linear Algebra And Differential Equations
- ME 27400 - Basic Mechanics II ♦
- NUCL 27300 - Mechanics Of Materials
- Biological Science Selective - Credit Hours: 4.00

17 Credits

Fall 3rd Year

- ABE 30500 - Physical Properties Of Biological Materials
- ABE 32500 - Soil And Water Resource Engineering
- AGRY 25500 - Soil Science
- CE 34000 - Hydraulics
and
- CE 34300 - Elementary Hydraulics Laboratory
- Agricultural Selective - Credit Hours: 3.00

17 Credits

Spring 3rd Year

- ABE 31400 - Design Of Electronic Systems
- ABE 32000 - Solid Modeling, Simulation, And Analysis
- ABE 33000 - Design Of Machine Components
- Biological Science Selective - Credit Hours: 4.00
- Humanities or Social Science Selective - Credit Hours: 3.00

16 Credits

Fall 4th Year

- ABE 43500 - Hydraulic Control Systems For Mobile Equipment
- ABE 45000 - Finite Element Method In Design And Optimization
- ABE 48400 - Project Planning And Management
- ABE 49000 - Professional Practice In Agricultural And Biological Engineering
- Engineering Technical Selective - Credit Hours: 3.00
- Written and Oral Communication Selective - Credit Hours: 3.00

14 Credits

Spring 4th Year

- ABE 48600 - Agricultural Engineering Design
- Engineering Technical Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Elective - Credit Hours: 2.00 or 3.00 *Depending on choice of CHM 11600 or CS 15900

14-15 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog.

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Agricultural Systems Management, BS

About the Program

Agricultural Systems Management (ASM) prepares individuals to organize and manage environmentally sound, technology-based businesses. The program's emphasis is on planning and directing an industry or business project with responsibility for results. ASM is based on an understanding of how equipment and buildings are used with plants and animals and their products. These processes require an understanding of the biological sciences to produce and maintain top product quality.

Computer skills are taught and used throughout the curriculum. Computers are used to collect and analyze data, and then using that information, to control machines and processes. Other uses involve planning layouts of equipment and buildings, creating

graphics for reports, etc. Agricultural Systems Management students also take several of courses in communications, business management and agricultural sciences, in addition to their specialty courses based in the Agricultural and Biological Engineering Department. The program provides an in-depth technical knowledge for selecting and applying advanced technologies in the food, feed, fiber, and fuel system. Graduates are prepared to solve a wide variety of business and technical problems in a job field that continues to grow.

Agricultural Systems Management students also take several of courses in communications, business management and agricultural sciences, in addition to their specialty courses based in the Agricultural and Biological Engineering Department. The program provides an in-depth technical knowledge for selecting and applying advanced technologies in the food, feed, fiber, and fuel system. Graduates are prepared to solve a wide variety of business and technical problems in a job field that continues to grow.

Some of the factors that contribute to Agricultural & Biological Engineering at Purdue University being a top ranked program:

- Multiple opportunities for interaction with faculty in laboratories and in classes
- Student Competitions, Clubs, Global Experiences
- Personalized advising and attention from faculty
- Practical curriculum for industrial careers
- Great opportunities for scholarships and internships
- Excellent placement record and starting salaries

Watch a video and take a look at some senior projects. We hope to see you in ABE soon!

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (118-119 credits)

Required Major Courses (28 credits)

- ASM 10400 - Introduction To Agricultural Systems
- ASM 10500 - Agricultural Systems Computations And Communication
- ASM 21100 - Technical Graphic Communications
- ASM 22100 - Career Opportunities Seminar
- ASM 22200 - Crop Production Equipment ♦
- ASM 33300 - Facilities Planning And Management
- ASM 34500 - Power Units And Power Trains
- ASM 35000 - Safety In Agriculture
- ASM 42000 - Electric Power And Controls
- ASM 42100 - Senior Seminar
- ASM 49400 - Project Planning And Management
- ASM 49500 - Agricultural Systems Management Capstone Project

Major Selectives (6 credits)

- ASM 24500 - Materials Handling And Processing
or
- ASM 33600 - Environmental Systems Management
- ASM 40000+ Selective - Credit Hours: 3.00

Other Departmental /Program Course Requirements (82-85 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11100 - Introduction To Agricultural And Biological Engineering Academic Programs
- AGEC 22000 - Economics Of Agricultural Markets
or
- AGEC 32100 - Principles Of Commodity Marketing
or
- AGEC 32700 - Principles Of Food And Agribusiness Marketing
- AGEC 31000 - Farm Organization
or
- AGEC 33000 - Management Methods For Agricultural Business
- AGEC 31100 - Accounting For Farm Business Planning
or
- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting
- AGEC 33100 - Principles Of Selling In Agricultural Business
- AGEC 35200 - Quantitative Techniques For Firm Decision Making
- AGEC 45500 - Agricultural Law
or
- MGMT 45500 - Legal Background For Business I
- AGRY 25500 - Soil Science
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- PHYS 21400 - The Nature Of Physics
- STAT 30100 - Elementary Statistical Methods
- Agricultural Selective - Credit Hours: 3.00

- Agricultural Selective - Credit Hours: 3.00
- Agricultural Selective - Credit Hours: 3.00
- Agricultural Selective - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 1.00 - 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (300+ level) - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (1 - 4 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, [click here](#).

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11100 - Introduction To Agricultural And Biological Engineering Academic Programs
- ASM 10400 - Introduction To Agricultural Systems
- CHM 11100 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- MA 16010 - Applied Calculus I
- UCC Humanities Selective - Credit Hours: 3.00

16 Credits

Spring 1st Year

- ASM 10500 - Agricultural Systems Computations And Communication
- CHM 11200 - General Chemistry

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- PHYS 21400 - The Nature Of Physics
- Economics Selective - Credit Hours: 3.00

15-16 Credits

Fall 2nd Year

- ASM 21100 - Technical Graphic Communications
- ASM 22100 - Career Opportunities Seminar
- ASM 22200 - Crop Production Equipment ♦
- STAT 30100 - Elementary Statistical Methods
- Biological Science Selective - Credit Hours: 4.00

14 Credits

Spring 2nd Year

- AGECE 35200 - Quantitative Techniques For Firm Decision Making
- AGRY 25500 - Soil Science

- ASM 24500 - Materials Handling And Processing
or
- ASM 33600 - Environmental Systems Management

- AGECE 31100 - Accounting For Farm Business Planning
or
- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- Biological Science Selective - Credit Hours: 4.00

17 Credits

Fall 3rd Year

- AGECE 22000 - Economics Of Agricultural Markets
or
- AGECE 32100 - Principles Of Commodity Marketing
or
- AGECE 32700 - Principles Of Food And Agribusiness Marketing

- AGECE 33100 - Principles Of Selling In Agricultural Business
- ASM 34500 - Power Units And Power Trains

- UCC Science, Technology, & Society Selective - Credit Hours: 1.00 - 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

13-15 Credits

Spring 3rd Year

- AGECE 31000 - Farm Organization
or
- AGECE 33000 - Management Methods For Agricultural Business
- ASM 33300 - Facilities Planning And Management
- ASM 35000 - Safety In Agriculture
- Agricultural Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

16 Credits

Fall 4th Year

- AGECE 45500 - Agricultural Law
or
- MGMT 45500 - Legal Background For Business I
- ASM 42000 - Electric Power And Controls
- ASM 42100 - Senior Seminar
- ASM 49400 - Project Planning And Management
- Agricultural Selective - Credit Hours: 3.00
- Agricultural Selective - Credit Hours: 3.00

14 Credits

Spring 4th Year

- ASM 49500 - Agricultural Systems Management Capstone Project
- ASM 40000+ Selective - Credit Hours: 3.00
- Agricultural Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Elective - Credit Hours: 1.00-4.00

13-16 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Biological Engineering: Cellular and Biomolecular Engineering Concentration, BSBE

About the Program

Biological Engineering - multiple concentrations

The world has tremendous need for solutions to problems related to the environment, energy, health, food, and sustainability. Biological systems are related to or at the heart of all of these issues. A biological engineer learns to design and analyze biological systems to develop innovative and practical solutions. Our B.S. graduates are well prepared for careers in the food industry, pharmaceutical industry, biotechnology, and bioprocessing as well as entrance into graduate or medical school. Students may select a major and plan of study within biological engineering that is tailored to their specific career goals. Some areas of focus include:

Cellular and biomolecular engineering: This emerging field is expected to rapidly advance and open opportunities in biomanufacturing, drug design, human therapeutics, tissue and organ regeneration, bioenergy and biofuel production, bioremediation, and biodefense.

Food and Biological process engineering: This is an interdisciplinary field that applies the basic sciences, mathematics, and engineering to convert agricultural commodities into edible foods and biological materials through various processing steps. Advances in genetic engineering lead to new types of crops and new processing methods to create value added products.

Pharmaceutical process engineering: This program of study is targeted to provide graduates with unique skills and job opportunities to take on roles within all phases of the pharmaceutical industry including research, product and process development, processing engineering, manufacturing, and marketing. Watch a video and take a look at some senior projects.

Some of the factors that contribute to Agricultural & Biological Engineering at Purdue University being a top ranked program:

- Multiple opportunities for interaction with faculty in laboratories and in classes
- Student Competitions, Clubs, Global Experiences
- Personalized advising and attention from faculty
- Practical curriculum for industrial careers
- Great opportunities for scholarships and internships
- Excellent placement record and starting salaries

We hope to see you in ABE soon!

Degree Requirements

129 Credits Required

Required Major Courses (49 credits)

- ABE 20100 - Thermodynamics In Biological Systems I
- ABE 20200 - Thermodynamics In Biological Systems II
- ABE 22600 - Biotechnology Laboratory I
- ABE 22700 - Biotechnology Laboratory II
- ABE 29000 - Sophomore Seminar (satisfies Science, Technology, and Society for the core)
- ABE 30100 - Numerical And Computational Modeling In Biological Engineering
- ABE 30300 - Applications Of Physical Chemistry To Biological Processes
- ABE 30400 - Bioprocess Engineering Laboratory
- ABE 30700 - Momentum Transfer In Food And Biological Systems
- ABE 30800 - Heat And Mass Transfer In Food And Biological Systems
- ABE 37000 - Biological/Microbial Kinetics And Reaction Engineering
- ABE 44000 - Cell And Molecular Design Principles
- ABE 45700 - Transport Operations In Food And Biological Engineering I
- ABE 46000 - Sensors And Process Control
- ABE 49000 - Professional Practice In Agricultural And Biological Engineering
- ABE 55700 - Transport Operations In Food And Biological Systems II
- ABE 55800 - Process Design For Food And Biological Systems
- ABE 58000 - Process Engineering Of Renewable Resources

Other Departmental /Program Course Requirements (79-80 credits)

- ENGR 13100 - Transforming Ideas To Innovation I
- ENGR 13200 - Transforming Ideas To Innovation II
- CHM 11500 - General Chemistry (satisfies Science #1 for core)
- CHM 11600 - General Chemistry (satisfies Science #2 for core)

- CHM 25700 - Organic Chemistry
or
- CHM 25500 - Organic Chemistry
and
- CHM 25501 - Organic Chemistry Laboratory

- MA 16500 - Analytic Geometry And Calculus I (satisfies Quantitative Reasoning for core)
- MA 16600 - Analytic Geometry And Calculus II
- MA 26100 - Multivariate Calculus
- MA 26200 - Linear Algebra And Differential Equations ♦
- MA 30300 - Differential Equations And Partial Differential Equations For Engineering And The Sciences
- PHYS 17200 - Modern Mechanics
- CS 15900 - Programming Applications For Engineers
- CHE 32000 - Statistical Modeling And Quality Enhancement
- BIOL 23000 - Biology Of The Living Cell
- Biological Science Selective - Credit Hours: 4.00
- Biological Science or Science Selective - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing (satisfies Written Communication for core)

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills (satisfies Oral Communication for core)

- Written/Oral Communication Selective - Credit Hours: 3.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

Elective (1 credit)

College of Agriculture and University Level Requirements

- 2.0 GPA required for Bachelor of Science degree.
- 32 Upper division credits taken from Purdue
- 6 credits International Understanding
- 3 credits Multicultural Awareness
- 6 credits - 3 credit hours from the Written/Oral Communication or Social Science and Humanities categories must come from 30000+ courses or above, and an additional 3 credit hours from the Written/Oral Communication or Social Science and Humanities categories must come from 30000+ or above or from a course with a required pre-requisite in the same department.
- 9 credits of Humanities and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, [click here](#).

Additional Degree Requirements

Select Ag Biological Science Selectives, Ag Economics Selectives, and CBOE Biological & Science Selectives for additional lists.

Program Requirements

Fall 1st Year

- ENGR 13100 - Transforming Ideas To Innovation I
- MA 16500 - Analytic Geometry And Calculus I
- PHYS 17200 - Modern Mechanics
- CHM 11500 - General Chemistry

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

17-18 Credits

Spring 1st Year

- ENGR 13200 - Transforming Ideas To Innovation II
- MA 16600 - Analytic Geometry And Calculus II
- CHM 11600 - General Chemistry
- CS 15900 - Programming Applications For Engineers
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

16 Credits

Fall 2nd Year

- ABE 20100 - Thermodynamics In Biological Systems I
- ABE 29000 - Sophomore Seminar
- ABE 22600 - Biotechnology Laboratory I
- MA 26100 - Multivariate Calculus
- BIOL 23000 - Biology Of The Living Cell
- CHM 25700 - Organic Chemistry
or
- CHM 25500 - Organic Chemistry
and
- CHM 25501 - Organic Chemistry Laboratory

18 Credits

Spring 2nd Year

- ABE 20200 - Thermodynamics In Biological Systems II
- ABE 22700 - Biotechnology Laboratory II
- MA 26200 - Linear Algebra And Differential Equations ♦
- CHE 32000 - Statistical Modeling And Quality Enhancement
- Economics Selective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- ABE 30300 - Applications Of Physical Chemistry To Biological Processes
- ABE 30700 - Momentum Transfer In Food And Biological Systems
- ABE 37000 - Biological/Microbial Kinetics And Reaction Engineering
- MA 30300 - Differential Equations And Partial Differential Equations For Engineering And The Sciences
- Biological Science Selective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- ABE 30100 - Numerical And Computational Modeling In Biological Engineering
- ABE 30400 - Bioprocess Engineering Laboratory
- ABE 30800 - Heat And Mass Transfer In Food And Biological Systems
- ABE 45700 - Transport Operations In Food And Biological Engineering I
- Humanities or Social Science Selective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- ABE 46000 - Sensors And Process Control
- ABE 49000 - Professional Practice In Agricultural And Biological Engineering
- ABE 55700 - Transport Operations In Food And Biological Systems II
- Biological Science or Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

16 Credits

Spring 4th Year

- ABE 44000 - Cell And Molecular Design Principles
- ABE 55800 - Process Design For Food And Biological Systems
- ABE 58000 - Process Engineering Of Renewable Resources
- UCC Humanities Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Elective - Credit Hours: 0.00 - 1.00

15-16 Credits

Notes

Students must have a graduation index of 2.0

Consultation with an advisor may result in an altered plan customized for individual student.

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Biological Engineering: Food and Biological Process Engineering, BSBE

About the Program

Biological Engineering - multiple concentrations

The world has tremendous need for solutions to problems related to the environment, energy, health, food, and sustainability. Biological systems are related to or at the heart of all of these issues. A biological engineer learns to design and analyze biological systems to develop innovative and practical solutions. Our B.S. graduates are well prepared for careers in the food industry, pharmaceutical industry, biotechnology, and bioprocessing as well as entrance into graduate or medical school. Students may select a major and plan of study within biological engineering that is tailored to their specific career goals. Some areas of focus include:

Cellular and biomolecular engineering: This emerging field is expected to rapidly advance and open opportunities in biomanufacturing, drug design, human therapeutics, tissue and organ regeneration, bioenergy and biofuel production, bioremediation, and biodefense.

Food & Biological process engineering: This is an interdisciplinary field that applies the basic sciences, mathematics, and engineering to convert agricultural commodities into edible foods and biological materials through various processing steps. Advances in genetic engineering lead to new types of crops and new processing methods to create value added products.

Pharmaceutical process engineering: This program of study is targeted to provide graduates with unique skills and job opportunities to take on roles within all phases of the pharmaceutical industry including research, product and process development, processing engineering, manufacturing, and marketing. Watch a video and take a look at some senior projects.

Some of the factors that contribute to Agricultural & Biological Engineering at Purdue University being a top ranked program:

- Multiple opportunities for interaction with faculty in laboratories and in classes
- Student Competitions, Clubs, Global Experiences
- Personalized advising and attention from faculty
- Practical curriculum for industrial careers
- Great opportunities for scholarships and internships
- Excellent placement record and starting salaries

We hope to see you in ABE soon!

Degree Requirements

129 Credits Required

Required Major Courses (45 credits)

- ABE 20100 - Thermodynamics In Biological Systems I
- ABE 20200 - Thermodynamics In Biological Systems II
- ABE 29000 - Sophomore Seminar (satisfies Science, Technology, and Society for the core)
- ABE 30100 - Numerical And Computational Modeling In Biological Engineering
- ABE 30300 - Applications Of Physical Chemistry To Biological Processes
- ABE 30400 - Bioprocess Engineering Laboratory
- ABE 30700 - Momentum Transfer In Food And Biological Systems
- ABE 30800 - Heat And Mass Transfer In Food And Biological Systems
- ABE 31400 - Design Of Electronic Systems
- ABE 37000 - Biological/Microbial Kinetics And Reaction Engineering
- ABE 45700 - Transport Operations In Food And Biological Engineering I
- ABE 46000 - Sensors And Process Control
- ABE 49000 - Professional Practice In Agricultural And Biological Engineering
- ABE 55700 - Transport Operations In Food And Biological Systems II
- ABE 55800 - Process Design For Food And Biological Systems
- ABE 58000 - Process Engineering Of Renewable Resources

Other Departmental/Program Course Requirements (83-84 credits)

- ENGR 13100 - Transforming Ideas To Innovation I (satisfies Information Literacy for the core)
- ENGR 13200 - Transforming Ideas To Innovation II
- CHM 11500 - General Chemistry (satisfies Science #1 for core)
- CHM 11600 - General Chemistry (satisfies Science #2 for core)

- CHM 25700 - Organic Chemistry
or
- CHM 25500 - Organic Chemistry
and
- CHM 25501 - Organic Chemistry Laboratory

- MA 16500 - Analytic Geometry And Calculus I (satisfies Quantitative Reasoning for core)
- MA 16600 - Analytic Geometry And Calculus II
- MA 26100 - Multivariate Calculus
- MA 26200 - Linear Algebra And Differential Equations ♦
- MA 30300 - Differential Equations And Partial Differential Equations For Engineering And The Sciences
- PHYS 17200 - Modern Mechanics
- CS 15900 - Programming Applications For Engineers
- CHE 32000 - Statistical Modeling And Quality Enhancement
- Biological or Food Science Selective - Credit Hours: 3.00
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 22100 - Introduction To Microbiology

- NUTR 20500 - Food Science I
or
- BCHM 30700 - Biochemistry

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing (satisfies Written Communication for the core)

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills (satisfies Oral Communication for core)

- Written or Oral Communications Selective - Credit Hours: 3.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

Elective (0-1 credit)

College of Agriculture and University Level Requirements

- 2.0 GPA required for Bachelor of Science degree.
- 32 Upper division credits taken from Purdue
- 6 credits International Understanding
- 3 credits Multicultural Awareness
- 6 credits - 3 credit hours from the Written/Oral Communication or Social Science and Humanities categories must come from 30000+ courses or above, and an additional 3 credit hours from the Written/Oral Communication or Social Science and Humanities categories must come from 30000+ or above or from a course with a required pre-requisite in the same department.
- 9 credits of Humanities and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

Additional Degree Requirements

Select Ag Economics Selectives and FBPE Biological or Food Science Selective for additional lists.

Program Requirements

Fall 1st Year

- ENGR 13100 - Transforming Ideas To Innovation I
- MA 16500 - Analytic Geometry And Calculus I
- CHM 11500 - General Chemistry
- PHYS 17200 - Modern Mechanics

- ENGL 10600 - First-Year Composition
or

- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

17-18 Credits

Spring 1st Year

- ENGR 13200 - Transforming Ideas To Innovation II
- MA 16600 - Analytic Geometry And Calculus II
- CHM 11600 - General Chemistry
- CS 15900 - Programming Applications For Engineers
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

16 Credits

Fall 2nd Year

- ABE 20100 - Thermodynamics In Biological Systems I
- ABE 29000 - Sophomore Seminar
- MA 26100 - Multivariate Calculus
- CHM 25700 - Organic Chemistry
or
- CHM 25500 - Organic Chemistry
and
- CHM 25501 - Organic Chemistry Laboratory
- BIOL 11000 - Fundamentals Of Biology I

17 Credits

Spring 2nd Year

- ABE 20200 - Thermodynamics In Biological Systems II
- MA 26200 - Linear Algebra And Differential Equations ♦
- CHE 32000 - Statistical Modeling And Quality Enhancement

- NUTR 20500 - Food Science I
or
- BCHM 30700 - Biochemistry
- UCC Humanities Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- ABE 30300 - Applications Of Physical Chemistry To Biological Processes
- ABE 30700 - Momentum Transfer In Food And Biological Systems
- ABE 37000 - Biological/Microbial Kinetics And Reaction Engineering
- MA 30300 - Differential Equations And Partial Differential Equations For Engineering And The Sciences
- BIOL 22100 - Introduction To Microbiology

16 Credits

Spring 3rd Year

- ABE 30100 - Numerical And Computational Modeling In Biological Engineering
- ABE 30400 - Bioprocess Engineering Laboratory
- ABE 30800 - Heat And Mass Transfer In Food And Biological Systems
- ABE 31400 - Design Of Electronic Systems
- ABE 45700 - Transport Operations In Food And Biological Engineering I
- Economics Selective - Credit Hours: 3.00

18 Credits

Fall 4th Year

- ABE 46000 - Sensors And Process Control
- ABE 49000 - Professional Practice In Agricultural And Biological Engineering
- ABE 55700 - Transport Operations In Food And Biological Systems II
- Written or Oral Communication Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

13 Credits

Spring 4th Year

- ABE 55800 - Process Design For Food And Biological Systems
- ABE 58000 - Process Engineering Of Renewable Resources
- Biological or Food Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Elective - Credit Hours: 0.00 - 1.00

15-16 Credits

Notes

Students must have a graduation index of 2.0

Consultation with an advisor may result in an altered plan customized for an individual student.

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Biological Engineering: Pharmaceutical Process Engineering, BSBE

About the Program

Biological Engineering - multiple concentrations

The world has tremendous need for solutions to problems related to the environment, energy, health, food, and sustainability. Biological systems are related to or at the heart of all of these issues. A biological engineer learns to design and analyze biological systems to develop innovative and practical solutions. Our B.S. graduates are well prepared for careers in the food industry, pharmaceutical industry, biotechnology, and bioprocessing as well as entrance into graduate or medical school. Students may select a major and plan of study within biological engineering that is tailored to their specific career goals. Some areas of focus include:

Cellular and biomolecular engineering: This emerging field is expected to rapidly advance and open opportunities in biomanufacturing, drug design, human therapeutics, tissue and organ regeneration, bioenergy and biofuel production, bioremediation, and biodefense.

Food & Biological process engineering: This is an interdisciplinary field that applies the basic sciences, mathematics, and engineering to convert agricultural commodities into edible foods and biological materials through various processing steps. Advances in genetic engineering lead to new types of crops and new processing methods to create value added products.

Pharmaceutical process engineering: This program of study is targeted to provide graduates with unique skills and job opportunities to take on roles within all phases of the pharmaceutical industry including research, product and process development, processing engineering, manufacturing, and marketing. Watch a video and take a look at some senior projects.

Some of the factors that contribute to Agricultural & Biological Engineering at Purdue University being a top ranked program:

- Multiple opportunities for interaction with faculty in laboratories and in classes
- Student Competitions, Clubs, Global Experiences
- Personalized advising and attention from faculty
- Practical curriculum for industrial careers
- Great opportunities for scholarships and internships
- Excellent placement record and starting salaries

We hope to see you in ABE soon!

Degree Requirements

129 Credits Required

Required Major Courses (45 credits)

- ABE 20100 - Thermodynamics In Biological Systems I
- ABE 20200 - Thermodynamics In Biological Systems II
- ABE 29000 - Sophomore Seminar (satisfies Science, Technology, and Society for the core)
- ABE 30100 - Numerical And Computational Modeling In Biological Engineering
- ABE 30300 - Applications Of Physical Chemistry To Biological Processes
- ABE 30400 - Bioprocess Engineering Laboratory
- ABE 30700 - Momentum Transfer In Food And Biological Systems
- ABE 30800 - Heat And Mass Transfer In Food And Biological Systems
- ABE 31400 - Design Of Electronic Systems
- ABE 37000 - Biological/Microbial Kinetics And Reaction Engineering
- ABE 45700 - Transport Operations In Food And Biological Engineering I
- ABE 46000 - Sensors And Process Control
- ABE 49000 - Professional Practice In Agricultural And Biological Engineering
- ABE 55700 - Transport Operations In Food And Biological Systems II
- ABE 55800 - Process Design For Food And Biological Systems
- ABE 58000 - Process Engineering Of Renewable Resources

Other Departmental /Program Course Requirements (84 credits)

- ENGR 13100 - Transforming Ideas To Innovation I (satisfies Information Literacy for the core)
- ENGR 13200 - Transforming Ideas To Innovation II
- CHM 11500 - General Chemistry (satisfies Science #1 for core)
- CHM 11600 - General Chemistry (satisfies Science #2 for core)

- CHM 25700 - Organic Chemistry
or
- CHM 25500 - Organic Chemistry
and
- CHM 25501 - Organic Chemistry Laboratory

- MA 16500 - Analytic Geometry And Calculus I (satisfies Quantitative Reasoning for core)
- MA 16600 - Analytic Geometry And Calculus II
- MA 26100 - Multivariate Calculus
- MA 26200 - Linear Algebra And Differential Equations ♦
- MA 30300 - Differential Equations And Partial Differential Equations For Engineering And The Sciences
- PHYS 17200 - Modern Mechanics
- CS 15900 - Programming Applications For Engineers
- CHE 32000 - Statistical Modeling And Quality Enhancement
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 22100 - Introduction To Microbiology
- BCHM 30700 - Biochemistry
- IPPH 56200 - Introduction To Pharmaceutical Manufacturing Processes

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing (satisfies Written Communication for core)

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills (satisfies Oral Communication for core)

- Written or Oral Communications Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00 (satisfies Human Culture Behavioral/Social Science for core)
- UCC Humanities Selective - Credit Hours: 3.00 (satisfies Human Cultures Humanities for core)
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

College of Agriculture and University Level Requirements

- 2.0 GPA required for Bachelor of Science degree.
- 32 Upper division credits taken from Purdue
- 6 credits International Understanding

- 3 credits Multicultural Awareness
- 6 credits - 3 credit hours from the Written/Oral Communication or Social Science and Humanities categories must come from 30000+ courses or above, and an additional 3 credit hours from the Written/Oral Communication or Social Science and Humanities categories must come from 30000+ or above or from a course with a required pre-requisite in the same department.
- 9 credits of Humanities and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Degree Requirements

For selectives list click here.

Program Requirements

Fall 1st Year

- ENGR 13100 - Transforming Ideas To Innovation I
- MA 16500 - Analytic Geometry And Calculus I
- CHM 11500 - General Chemistry
- PHYS 17200 - Modern Mechanics
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

17 Credits

Spring 1st Year

- ENGR 13200 - Transforming Ideas To Innovation II
- MA 16600 - Analytic Geometry And Calculus II
- CHM 11600 - General Chemistry
- CS 15900 - Programming Applications For Engineers

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

16 Credits

Fall 2nd Year

- ABE 20100 - Thermodynamics In Biological Systems I
- ABE 29000 - Sophomore Seminar
- MA 26100 - Multivariate Calculus
- BIOL 11000 - Fundamentals Of Biology I

- CHM 25700 - Organic Chemistry
or
- CHM 25500 - Organic Chemistry
and
- CHM 25501 - Organic Chemistry Laboratory

17 Credits

Spring 2nd Year

- ABE 20200 - Thermodynamics In Biological Systems II
- MA 26200 - Linear Algebra And Differential Equations ♦
- CHE 32000 - Statistical Modeling And Quality Enhancement
- BCHM 30700 - Biochemistry
- Humanities or Social Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- ABE 30300 - Applications Of Physical Chemistry To Biological Processes
- ABE 30700 - Momentum Transfer In Food And Biological Systems
- ABE 37000 - Biological/Microbial Kinetics And Reaction Engineering
- MA 30300 - Differential Equations And Partial Differential Equations For Engineering And The Sciences
- BIOL 22100 - Introduction To Microbiology

16 Credits

Spring 3rd Year

- ABE 30100 - Numerical And Computational Modeling In Biological Engineering
- ABE 30400 - Bioprocess Engineering Laboratory
- ABE 30800 - Heat And Mass Transfer In Food And Biological Systems
- ABE 31400 - Design Of Electronic Systems
- ABE 45700 - Transport Operations In Food And Biological Engineering I
- Economics Selective - Credit Hours: 3.00

18 Credits

Fall 4th Year

- ABE 46000 - Sensors And Process Control
- ABE 49000 - Professional Practice In Agricultural And Biological Engineering
- ABE 55700 - Transport Operations In Food And Biological Systems II
- IPPH 56200 - Introduction To Pharmaceutical Manufacturing Processes
- Written or Oral Communication Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00

17 Credits

Spring 4th Year

- ABE 55800 - Process Design For Food And Biological Systems
- ABE 58000 - Process Engineering Of Renewable Resources
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

12 Credits

Notes

Students must have a graduation index of 2.0

The student is ultimately responsible for knowing and completing all degree requirements.

Consultation with an advisor may result in an altered plan customized for a student.

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Environmental and Natural Resources Engineering, BSAGE

About the Program

In Environmental and Natural Resources Engineering, students learn about ecosystem processes (the water cycle, nutrient transformation processes, and biological systems), how human activities such as agriculture affect these complex systems, and how to design sustainable solutions. Basic engineering principles, as well as some of the newest technological approaches, are applied to solve challenges related to soil and plant environments, surface and ground water quality, air quality, animal environments, and food safety. Graduates work in exciting careers in federal, state, and local government, engineering consulting firms, and industry, or pursue graduate study opportunities.

Some of the factors that contribute to Agricultural & Biological Engineering at Purdue University being a top ranked program:

- Multiple opportunities for interaction with faculty in laboratories and in classes
- Student Competitions, Clubs, Global Experiences
- Personalized advising and attention from faculty
- Practical curriculum for industrial careers
- Great opportunities for scholarships and internships
- Excellent placement record and starting salaries

Watch a video and then take a look at some senior projects.

Degree Requirements

126 Credits Required

Departmental/Program Major Courses (126 credits)

Required Major Courses (28 credits)

- ABE 20500 - Computations For Engineering Systems
- ABE 21000 - Thermodynamics Principles Of Engineering And Biological Systems
- ABE 29000 - Sophomore Seminar (satisfies Science, Technology, and Society for the core)
- ABE 30500 - Physical Properties Of Biological Materials
- ABE 31400 - Design Of Electronic Systems
- ABE 32500 - Soil And Water Resource Engineering
- ABE 33000 - Design Of Machine Components
- ABE 45000 - Finite Element Method In Design And Optimization
- ABE 48400 - Project Planning And Management
- ABE 48600 - Agricultural Engineering Design
- ABE 49000 - Professional Practice In Agricultural And Biological Engineering

Other Departmental /Program Course Requirements (98 - 99 credits)

- ENGR 13100 - Transforming Ideas To Innovation I (satisfies Information Literacy for the core)
- ENGR 13200 - Transforming Ideas To Innovation II
- CHM 11500 - General Chemistry (satisfies Science #1 for core)
- CHM 11600 - General Chemistry (satisfies Science #2 for core)
- MA 16500 - Analytic Geometry And Calculus I (satisfies Quantitative Reasoning for core)
- MA 16600 - Analytic Geometry And Calculus II
- MA 26100 - Multivariate Calculus
- MA 26200 - Linear Algebra And Differential Equations
- PHYS 17200 - Modern Mechanics
- PHYS 24100 - Electricity And Optics

- CE 34000 - Hydraulics
and
- CE 34300 - Elementary Hydraulics Laboratory

- ME 27000 - Basic Mechanics I
- ME 27400 - Basic Mechanics II ♦
- NUCL 27300 - Mechanics Of Materials
- Engineering Technical Selective - Credit Hours: 3.00
- Engineering Technical Selective - Credit Hours: 3.00
- ENRE Technical Selective - Credit Hours: 3.00
- ENRE Technical Selective - Credit Hours: 3.00
- AGRY 25500 - Soil Science

- Agricultural Selective - Credit Hours: 3.00
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing (satisfies Written Communication for core)

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills (satisfies Oral Communication for core)

- Written and Oral Communication Selective - Credit Hours: 3.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

Electives (1 - 2 credits)

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree.
- 32 Upper division credits taken from Purdue
- 6 credits International Understanding
- 3 credits Multicultural Awareness
- 6 credits - 3 credit hours from the Written/Oral Communication or Social Science and Humanities categories must come from 30000+ courses or above, and an additional 3 credit hours from the Written/Oral Communication or Social Science and Humanities categories must come from 30000+ or above or from a course with a required pre-requisite in the same department.
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication

- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Degree Requirements

Select Ag Biological Science Selectives, Ag Economics Selectives, Agricultural Selectives, ENRE Engineering Technical Selectives, and ENRE Technical Selectives for additional course lists.

Program Requirements

Fall 1st Year

- UCC Approved Humanities Selective - Credit Hours: 3.00
- ENGR 13100 - Transforming Ideas To Innovation I
- MA 16500 - Analytic Geometry And Calculus I
- CHM 11500 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

16-17 Credits

Spring 1st Year

- ENGR 13200 - Transforming Ideas To Innovation II
- MA 16600 - Analytic Geometry And Calculus II
- CHM 11600 - General Chemistry
- PHYS 17200 - Modern Mechanics
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

17 Credits

Fall 2nd Year

- ABE 20500 - Computations For Engineering Systems
- ABE 29000 - Sophomore Seminar
- MA 26100 - Multivariate Calculus
- ME 27000 - Basic Mechanics I
- PHYS 24100 - Electricity And Optics
- Economics Selective - Credit Hours: 3.00

17 Credits

Spring 2nd Year

- ABE 21000 - Thermodynamics Principles Of Engineering And Biological Systems
- MA 26200 - Linear Algebra And Differential Equations
- ME 27400 - Basic Mechanics II ♦
- NUCL 27300 - Mechanics Of Materials
- Biological Science Selective - Credit Hours: 4.00

17 Credits

Fall 3rd Year

- ABE 30500 - Physical Properties Of Biological Materials
- ABE 32500 - Soil And Water Resource Engineering
- AGRY 25500 - Soil Science

- CE 34000 - Hydraulics
and
- CE 34300 - Elementary Hydraulics Laboratory

- Humanities or Social Science Selective - Credit Hours: 3.00

17 Credits

Spring 3rd Year

- ABE 31400 - Design Of Electronic Systems
- ABE 33000 - Design Of Machine Components
- ENRE Technical Selective - Credit Hours: 3.00
- Biological Science Selective - Credit Hours: 4.00
- Agricultural Selective - Credit Hours: 3.00

16 Credits

Fall 4th Year

- ABE 45000 - Finite Element Method In Design And Optimization
- ABE 48400 - Project Planning And Management
- ABE 49000 - Professional Practice In Agricultural And Biological Engineering
- ENRE Technical Selective - Credit Hours: 3.00
- Engineering Technical Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

14 Credits

Spring 4th Year

- ABE 48600 - Agricultural Engineering Design
- Engineering Technical Selective - Credit Hours: 3.00
- Humanities or Social Selective - Credit Hours: 3.00
- Humanities or Social Selective (30000+) - Credit Hours: 3.00
- Elective - Credit Hours: 1.00-2.00

13-14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Minor

Agricultural Systems Management Minor

18 Credits Required

Requirements for the Minor

Required Courses (6 credits)

- ASM 10400 - Introduction To Agricultural Systems
- ASM 10500 - Agricultural Systems Computations And Communication

Elective Courses - Choose 4 (12 credits)*

- AGECE 31000 - Farm Organization
- AGECE 33000 - Management Methods For Agricultural Business
- AGRY 37500 - Crop Production Systems
- ANSC 22100 - Principles Of Animal Nutrition
- ASM 20100 - Construction And Maintenance
- ASM 21100 - Technical Graphic Communications
- ASM 22200 - Crop Production Equipment
- ASM 24500 - Materials Handling And Processing
- ASM 33300 - Facilities Planning And Management
- ASM 33600 - Environmental Systems Management
- ASM 34500 - Power Units And Power Trains
- ASM 42000 - Electric Power And Controls
- ASM 42200 - Advanced Machine Technology For Agricultural Crop Production
- ASM 51000 - Agrosecurity-Emergency Management For Agricultural Production Operations
- ASM 53000 - Power And Machinery Management
- ASM 54000 - Geographic Information System Application
- ASM 55000 - Grain Drying And Storage

- ASM 59000 - Special Problems
- ASM 59100 - Special Topics

Notes

Department Permission is not required to enroll in this minor.

*Only three credits may be from courses other than Agricultural Systems Management (ASM). At least six credits must be 30000+ level courses. No more than 6 credits of special problems (ASM 49000 and/or 59000) may apply to the minor and application of the special problems to the minor must be stated on the course contract form.

Disclaimer

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Pre-Program

Pre-Agricultural Biological Engineering

Upon successful completion of one year of pre-engineering curriculum, students can move to their professional program of choice within Agricultural and Biological Engineering. Available specializations include:

- Agricultural Engineering, BSAGE
- Environmental and Natural Resources Engineering, BSAGE
- Biological Engineering: Cellular and Biomolecular Engineering Concentration, BSBE
- Biological Engineering: Food and Biological Process Engineering, BSBE
- Biological Engineering: Pharmaceutical Process Engineering, BSBE

Fall 1st Year (16-17 credits)

- ENGR 13100 - Transforming Ideas To Innovation I (satisfies Information Literacy for core)
- MA 16500 - Analytic Geometry And Calculus I (satisfies Quantitative Reasoning for core)
- CHM 11500 - General Chemistry (satisfies Science for core)
- ENGL 10600 - First-Year Composition
(satisfies Written Communication for core) (satisfies Information Literacy for core)
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing (satisfies Humanities for core)
- UCC Approved Humanities Selective -Credit Hours: 3.00 (satisfies Humanities for core)

Spring 1st Year (16-17 credits)

- ENGR 13200 - Transforming Ideas To Innovation II
- MA 16600 - Analytic Geometry And Calculus II
- PHYS 17200 - Modern Mechanics
- CHM 11600 - General Chemistry
- or
- CS 15900 - Programming Applications For Engineers
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

Notes

- MA 16100 and MA 16200 are alternatives to MA 16500 and 16600, respectively.
- Students pursuing the Agricultural Engineering major may take CHM 11600 or CS 15900. All others should take CHM 11600.
- Students must earn a C- or better in all courses used to fulfill the above requirements if the grade is posted to the Purdue transcript, with the exception of the UCC Approved Humanities Selective.
- Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Department of Agricultural Economics

Overview

The Department of Agricultural Economics has a long history of preparing students for careers in the food and agricultural industry as well as preparation for graduate and law school. The variation of majors offers students the opportunity to focus in agribusiness, economics, sales and marketing, or farm management.

Students have the opportunity to learn from faculty who lead the department's Center for Food and Agricultural Business and the Center for Commercial Agriculture. The Center for Food and Agricultural Business combines research with real-world applications to offer seminars, workshops, and custom programs to the same companies that are hiring our undergraduate students for internships and full-time positions. The Center for Commercial Agriculture has a vision to "be the leading source of management education and knowledge generation for farmers" bringing a wealth of experienced faculty to guide students interested in a career path in production agriculture.

Students are advised by a passionate group of academic advisors who encourage students to enhance their Purdue experience by participating in transformational experiences. These experiences range from attending a national or campus leadership conference, studying abroad, competing in an academic competition, completing an undergraduate research project, serving as an officer in one of the numerous campus organizations, etc.

Department of Agricultural Economics Website

Faculty

https://ag.purdue.edu/agecon/Pages/directory_faculty.aspx

Contact Information

Department of Agricultural Economics

Purdue University

Krannert Building
403 West State Street
West Lafayette, IN 47907
Phone: (765) 494-4201
Email: LeeAnn Williams

Website - Prospective Student: <https://ag.purdue.edu/agecon/Pages/ProspectiveStudents.aspx>

Website - Current Students: <https://ag.purdue.edu/agecon/Pages/Current-Undergraduate-Students.aspx>

The Advising & Student Services Office for the department is located in Room 681 of the KRAN Building.

Graduate Information

For Graduate Information please see Agricultural Economics Graduate Program Information.

Baccalaureate

Agribusiness: Agribusiness Management Concentration, BS

About the Program

Increasing opportunities exist for agricultural graduates to enter managerial positions in business. These businesses may be large or small and may be organized as proprietorships, partnerships, corporations, or cooperatives. They include meat, dairy, and poultry processing industries, grain handling, feed manufacturing, and seed and fertilizer firms; transportation and storage concerns; and wholesale and retail food businesses. Although this Department of Agricultural Economics curriculum gives special emphasis to agriculturally related businesses, its requirements are broad enough to allow adequate preparation for nonagricultural businesses. This option also has enough flexibility to permit you to prepare for an international career in agricultural business and can serve as a foundation for graduate school.

Concentrations include:

- Agribusiness Management
- Agrifinance
- Agrimarketing
- Commodity Marketing
- Food Marketing

Agribusiness (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (102-103 credits)

Required Major Courses (30 credits)

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGEC 21700 - Economics
- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 29800 - Sophomore Seminar
- AGEC 32700 - Principles Of Food And Agribusiness Marketing
- AGEC 33000 - Management Methods For Agricultural Business

- AGEC 35200 - Quantitative Techniques For Firm Decision Making
or
- AGEC 45100 - Applied Econometrics

- AGEC 42400 - Financial Management Of Agricultural Business
- AGEC 43000 - Agricultural And Food Business Strategy

- AGEC 45500 - Agricultural Law
or
- MGMT 45500 - Legal Background For Business I

Major Selectives - (3 credits)

- AGEC Selective - Credit Hours: 3.00

Other Departmental /Program Course Requirements (69-70 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- CHM 11100 - General Chemistry (satisfies Science #1 for core)

- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I ♦ (satisfies Quantitative Reasoning for core)

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- Mathematics or Science Selective - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Human Relations Management Selective - Credit Hours: 3.00
- Industrial Technology Selective - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communications Selective - Credit Hours: 3.00
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (17 - 18 credits)

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Degree Requirements

For supplemental information click here.

Program Requirements

Fall 1st Year

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- MA 16010 - Applied Calculus I ♦
- Biological Sciences Selective - Credit Hours: 4.00

15-16 Credits

Spring 1st Year

- AGECE 21700 - Economics
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Biological Sciences Selective - Credit Hours: 4.00
- UCC Humanities Selective - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- AGECE 22000 - Economics Of Agricultural Markets
- AGECE 29800 - Sophomore Seminar
- CHM 11100 - General Chemistry
- STAT 30100 - Elementary Statistical Methods
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGECE 33000 - Management Methods For Agricultural Business
- CHM 11200 - General Chemistry
- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting
- Human Relations Management Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- AGEC 32700 - Principles Of Food And Agribusiness Marketing
- AGEC 35200 - Quantitative Techniques For Firm Decision Making
or
- AGEC 45100 - Applied Econometrics
- AGEC 42400 - Financial Management Of Agricultural Business
- Industrial Technology Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- AGEC 45500 - Agricultural Law
or
- MGMT 45500 - Legal Background For Business I
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Math/Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- Agricultural Economics Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+level) - Credit Hours: 3.00
- Electives - Credit Hours: 5.00

14 Credits

Spring 4th Year

- AGEC 43000 - Agricultural And Food Business Strategy
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Electives - Credit Hours: 6.00-7.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Agribusiness: Agricultural Finance Concentration, BS

About the Program

Increasing opportunities exist for agricultural graduates to enter managerial positions in business. These businesses may be large or small and may be organized as proprietorships, partnerships, corporations, or cooperatives. They include meat, dairy, and poultry processing industries, grain handling, feed manufacturing, and seed and fertilizer firms; transportation and storage concerns; and wholesale and retail food businesses. Although this Department of Agricultural Economics curriculum gives special emphasis to agriculturally related businesses, its requirements are broad enough to allow adequate preparation for nonagricultural businesses. This option also has enough flexibility to permit you to prepare for an international career in agricultural business and can serve as a foundation for graduate school.

Concentrations include:

- Agribusiness Management
- Agrifinance
- Agrimarketing
- Commodity Marketing
- Food Marketing

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (102-103 credits)

Required Major Courses (36 credits)

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGEC 21700 - Economics
- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 29800 - Sophomore Seminar
- AGEC 32700 - Principles Of Food And Agribusiness Marketing
- AGEC 33000 - Management Methods For Agricultural Business

- AGEC 35200 - Quantitative Techniques For Firm Decision Making
or
- AGEC 45100 - Applied Econometrics

- AGEC 42400 - Financial Management Of Agricultural Business

- AGEC 42500 - Estate Planning And Property Transfer
or
- AGEC 45600 - Federal Income Tax Law

- AGEC 45500 - Agricultural Law
or
- MGMT 45500 - Legal Background For Business I

- AGEC 43000 - Agricultural And Food Business Strategy
- AGEC 52400 - Agricultural Finance

Major Selectives - (3 credits)

- AGEC Selective - Credit Hours: 3.00

Other Departmental /Program Course Requirements (63-64 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs

- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I ♦ (satisfies Quantitative Reasoning for core)
- MGMT 20000 - Introductory Accounting
- MGMT 20100 - Management Accounting I
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- Mathematics or Science Selective - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communications Selective - Credit Hours: 3.00
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (17 - 18 credits)

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities

- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Degree Requirements

For supplemental information click here.

Program Requirements

Fall 1st Year

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I ♦
- Biological Sciences Selective - Credit Hours: 4.00

15-16 Credits

Spring 1st Year

- AGEC 21700 - Economics
- COM 11400 - Fundamentals Of Speech Communication
or

- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Biological Sciences Selective - Credit Hours: 4.00
- UCC Humanities Selective - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- AGECE 22000 - Economics Of Agricultural Markets
- AGECE 29800 - Sophomore Seminar
- CHM 11100 - General Chemistry
- STAT 30100 - Elementary Statistical Methods
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGECE 33000 - Management Methods For Agricultural Business
- CHM 11200 - General Chemistry
- MGMT 20000 - Introductory Accounting
- Humanities or Social Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- AGECE 32700 - Principles Of Food And Agribusiness Marketing
- AGECE 35200 - Quantitative Techniques For Firm Decision Making
or
- AGECE 45100 - Applied Econometrics
- AGECE 42400 - Financial Management Of Agricultural Business
- MGMT 20100 - Management Accounting I

- Elective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- AGEC 45500 - Agricultural Law
or
- MGMT 45500 - Legal Background For Business I

- Agricultural Economics Selective - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Math/Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGEC 42500 - Estate Planning And Property Transfer
or
- AGEC 45600 - Federal Income Tax Law

- Economics Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Electives - Credit Hours: 5.00

14 Credits

Spring 4th Year

- AGEC 43000 - Agricultural And Food Business Strategy
- AGEC 52400 - Agricultural Finance
- Humanities or Social Science Selective (30000+level) - Credit Hours: 3.00
- Elective - Credit Hour: 3.00-4.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Agribusiness: Agricultural Marketing Concentration, BS

About the Program

Increasing opportunities exist for agricultural graduates to enter managerial positions in business. These businesses may be large or small and may be organized as proprietorships, partnerships, corporations, or cooperatives. They include meat, dairy, and poultry processing industries, grain handling, feed manufacturing, and seed and fertilizer firms; transportation and storage concerns; and wholesale and retail food businesses. Although this Department of Agricultural Economics curriculum gives special emphasis to agriculturally related businesses, its requirements are broad enough to allow adequate preparation for nonagricultural businesses. This option also has enough flexibility to permit you to prepare for an international career in agricultural business and can serve as a foundation for graduate school.

Concentrations include:

- Agribusiness Management
- Agrifinance
- Agrimarketing
- Commodity Marketing
- Food Marketing

Agribusiness (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (101-102 credits)

Required Major Courses (32 credits)

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGEC 21700 - Economics
- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 29800 - Sophomore Seminar
- AGEC 32700 - Principles Of Food And Agribusiness Marketing
- AGEC 33000 - Management Methods For Agricultural Business
- AGEC 33100 - Principles Of Selling In Agricultural Business

- AGEC 35200 - Quantitative Techniques For Firm Decision Making
or
- AGEC 45100 - Applied Econometrics

- AGEC 42400 - Financial Management Of Agricultural Business
- AGEC 42700 - Advanced Agribusiness Marketing
- AGEC 42900 - Agribusiness Marketing Workshop

Major Selectives (6 credits)

- AGEC Selective - Credit Hours: 3.00
- AGEC Selective - Credit Hours: 3.00

Other Departmental /Program Course Requirements (63-64 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I ♦ (satisfies Quantitative Reasoning for core)

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00

- Mathematics or Science Selective - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communications Selective - Credit Hours: 3.00
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (18 - 19 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, [click here](#).

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGECE 20200 - Spreadsheet Use In Agricultural Business
- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- MA 16010 - Applied Calculus I ♦
- Biological Sciences Selective - Credit Hours: 4.00

15-16 Credits

Spring 1st Year

- AGECE 21700 - Economics

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Biological Sciences Selective - Credit Hours: 4.00
- UCC Humanities Selective - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 29800 - Sophomore Seminar
- CHM 11100 - General Chemistry
- STAT 30100 - Elementary Statistical Methods
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGEC 33000 - Management Methods For Agricultural Business
- CHM 11200 - General Chemistry

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- Humanities or Social Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- AGEC 32700 - Principles Of Food And Agribusiness Marketing
- AGEC 33100 - Principles Of Selling In Agricultural Business

- AGEC 35200 - Quantitative Techniques For Firm Decision Making
or
- AGEC 45100 - Applied Econometrics

- AGEC 42400 - Financial Management Of Agricultural Business
- Elective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- Agricultural economics Selective - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Math/Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours 3.00

15 Credits

Fall 4th Year

- AGECE 42700 - Advanced Agribusiness Marketing
- Economics Selective - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

12 Credits

Spring 4th Year

- AGECE 42900 - Agribusiness Marketing Workshop
- Agricultural Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+level) - Credit Hours: 3.00
- Electives - Credit Hours: 6.00 - 7.00

14-15 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

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The student is ultimately responsible for knowing and completing all degree requirements.

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Agribusiness: Commodity Marketing Concentration, BS

About the Program

Increasing opportunities exist for agricultural graduates to enter managerial positions in business. These businesses may be large or small and may be organized as proprietorships, partnerships, corporations, or cooperatives. They include meat, dairy, and poultry processing industries, grain handling, feed manufacturing, and seed and fertilizer firms; transportation and storage concerns; and wholesale and retail food businesses. Although this Department of Agricultural Economics curriculum gives special emphasis to agriculturally related businesses, its requirements are broad enough to allow adequate preparation for nonagricultural businesses. This option also has enough flexibility to permit you to prepare for an international career in agricultural business and can serve as a foundation for graduate school.

Concentrations include:

- Agribusiness Management
- Agrifinance
- Agrimarketing
- Commodity Marketing
- Food Marketing

Agribusiness (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (102-103 credits)

Required Major Courses (36 credits)

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGEC 21700 - Economics
- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 29800 - Sophomore Seminar
- AGEC 30500 - Agricultural Prices
- AGEC 32100 - Principles Of Commodity Marketing
- AGEC 32700 - Principles Of Food And Agribusiness Marketing
- AGEC 33000 - Management Methods For Agricultural Business

- AGEC 35200 - Quantitative Techniques For Firm Decision Making
or
- AGEC 45100 - Applied Econometrics

- AGEC 42100 - Advanced Commodity Marketing
- AGEC 42400 - Financial Management Of Agricultural Business
- AGEC 43000 - Agricultural And Food Business Strategy

Major Selectives (3 credits)

- AGEC Selective - Credit Hours: 3.00

Other Departmental /Program Course Requirements (63-64 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I ♦ (satisfies Quantitative Reasoning for core)

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Agronomy or Animal Science Selective at 20000+ - Credit Hours: 3.00
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- Mathematics or Science Selective - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communications Selective - Credit Hours: 3.00
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (17 - 18 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- MA 16010 - Applied Calculus I ♦
- Biological Sciences Selective - Credit Hours: 4.00

15-16 Credits

Spring 1st Year

- AGEC 21700 - Economics

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Biological Sciences Selective - Credit Hours: 4.00
- UCC Humanities Selective - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 29800 - Sophomore Seminar
- CHM 11100 - General Chemistry
- STAT 30100 - Elementary Statistical Methods

- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGECE 33000 - Management Methods For Agricultural Business
- CHM 11200 - General Chemistry
- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- AGECE 32100 - Principles Of Commodity Marketing
- AGECE 32700 - Principles Of Food And Agribusiness Marketing
- AGECE 35200 - Quantitative Techniques For Firm Decision Making
or
- AGECE 45100 - Applied Econometrics
- AGECE 42400 - Financial Management Of Agricultural Business
- Elective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- AGECE 42100 - Advanced Commodity Marketing
- Food and Agribusiness Management Selective - Credit Hours: 4.00
- Math/Science Selective - Credit Hours: 3.00
- Agronomy or Animal Science Selective at 20000+ - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGEC 30500 - Agricultural Prices
- Agricultural Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+level) - Credit Hours: 3.00
- Electives - Credit Hours: 5.00

14 Credits

Spring 4th Year

- AGEC 43000 - Agricultural And Food Business Strategy
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Science - Credit Hours: 3.00
- Electives - Credit Hours: 3.00 - 4.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Agribusiness: Food Marketing Concentration, BS

About the Program

Increasing opportunities exist for agricultural graduates to enter managerial positions in business. These businesses may be large or small and may be organized as proprietorships, partnerships, corporations, or cooperatives. They include meat, dairy, and poultry processing industries, grain handling, feed manufacturing, and seed and fertilizer firms; transportation and storage concerns; and wholesale and retail food businesses. Although this Department of Agricultural Economics curriculum gives special emphasis to agriculturally related businesses, its requirements are broad enough to allow adequate preparation for nonagricultural businesses. This option also has enough flexibility to permit you to prepare for an international career in agricultural business and can serve as a foundation for graduate school.

Concentrations include:

- Agribusiness Management
- Agrifinance
- Agrimarketing
- Commodity Marketing
- Food Marketing

Agribusiness (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (101-102 credits)

Required Major Courses (33 credits)

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGEC 21700 - Economics
- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 29800 - Sophomore Seminar
- AGEC 32700 - Principles Of Food And Agribusiness Marketing
- AGEC 33000 - Management Methods For Agricultural Business
- AGEC 33100 - Principles Of Selling In Agricultural Business

- AGEC 33300 - Food Distribution - A Retailing Perspective
- AGEC 35200 - Quantitative Techniques For Firm Decision Making
or
- AGEC 45100 - Applied Econometrics
- AGEC 42400 - Financial Management Of Agricultural Business
- AGEC 42700 - Advanced Agribusiness Marketing

Other Departmental /Program Course Requirements (68-69 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- FS 16100 - Science Of Food
- FS 24500 - Food Packaging
- FS 34000 - Introduction To Food Law And Regulations
- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting
- NUTR 30300 - Essentials Of Nutrition
or
- NUTR 31500 - Fundamentals Of Nutrition
- MA 16010 - Applied Calculus I ♦ (satisfies Quantitative Reasoning for core)
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- Mathematics or Science Selective - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or

- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communications Selective - Credit Hours: 3.00
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (18 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGECE 20200 - Spreadsheet Use In Agricultural Business
- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- MA 16010 - Applied Calculus I ♦
- Biological Sciences Selective - Credit Hours: 4.00

15-16 Credits

Spring 1st Year

- AGECE 21700 - Economics

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Biological Sciences Selective - Credit Hours: 4.00
- UCC Humanities Selective - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- AGECE 22000 - Economics Of Agricultural Markets
- AGECE 29800 - Sophomore Seminar
- CHM 11100 - General Chemistry
- FS 16100 - Science Of Food
- STAT 30100 - Elementary Statistical Methods
- Humanities or Social Science Selective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGECE 33000 - Management Methods For Agricultural Business
- CHM 11200 - General Chemistry
- FS 24500 - Food Packaging

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- Humanities or Social Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- AGECE 32700 - Principles Of Food And Agribusiness Marketing
- AGECE 33100 - Principles Of Selling In Agricultural Business

- AGECE 35200 - Quantitative Techniques For Firm Decision Making
or
- AGECE 45100 - Applied Econometrics

- AGECE 42400 - Financial Management Of Agricultural Business
- Elective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- NUTR 30300 - Essentials Of Nutrition
or
- NUTR 31500 - Fundamentals Of Nutrition

- AGECE 33300 - Food Distribution - A Retailing Perspective
- FS 34000 - Introduction To Food Law And Regulations
- Math/Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 6.00

16 Credits

Fall 4th Year

- AGEC 42700 - Advanced Agribusiness Marketing
- Economics Selective - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

12 Credits

Spring 4th Year

- Humanities or Social Selective (30000+ level) - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 6.00 - 7.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Agricultural Economics: Applied Agricultural Economics Concentration, BS

About the Program

Agricultural economics graduates apply economic principles and use quantitative tools to analyze data which assists the agricultural sector in making better decisions. These decisions involve a wide array of issues including price analysis, international development, international trade, environmental resources, and agricultural policy. Concentrations include:

- Applied Agricultural Economics
- Commodity Marketing
- Quantitative Analysis

[Agricultural Economics \(multiple concentrations\) Website](#)

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (95-96 credits)

Required Major Courses (32 credits)

Required AGEC courses (14 credits)

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGEC 21700 - Economics
- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 29800 - Sophomore Seminar

- AGEC 35200 - Quantitative Techniques For Firm Decision Making
or
- AGEC 45100 - Applied Econometrics

Major Selectives - (18 credits)

- AGEC Selective - Credit Hours: 3.00
- AGEC Selective - Credit Hours: 3.00
- AGEC Selective - Credit Hours: 3.00

- AGEC Selective - Credit Hours: 3.00
- AGEC Selective - Credit Hours: 3.00
- AGEC Selective - Credit Hours: 3.00

Other Departmental /Program Course Requirements (63-64 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I ♦ (satisfies Quantitative Reasoning for core)

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)

- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- Mathematics or Science Selective - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communications Selective - Credit Hours: 3.00
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (24 - 25 credits)

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGECE 20200 - Spreadsheet Use In Agricultural Business
- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- MA 16010 - Applied Calculus I ♦
- Biological Sciences Selective - Credit Hours: 4.00

15-16 Credits

Spring 1st Year

- AGECE 21700 - Economics
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Biological Sciences Selective - Credit Hours: 4.00
- UCC Humanities Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- AGECE 22000 - Economics Of Agricultural Markets
- AGECE 29800 - Sophomore Seminar
- CHM 11100 - General Chemistry
- STAT 30100 - Elementary Statistical Methods
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- CHM 11200 - General Chemistry
- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting
- Agricultural Economics Selective - Credit Hours: 3.00

- Written or Oral Communication Selective - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- AGECE 35200 - Quantitative Techniques For Firm Decision Making
or
- AGECE 45100 - Applied Econometrics
- Agricultural Economics Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- Math/Science Selection - Credit Hours: 3.00
- Agricultural Economics Selectives - Credit Hours: 6.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- Agricultural Economics Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+level) - Credit Hours: 3.00
- Electives - Credit Hours: 6.00

15 Credits

Spring 4th Year

- Agricultural Economics Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00

- Electives - Credit Hours: 6.00 - 7.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

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Degree Requirements

120 Credits Required

Agricultural Economics: Commodity Marketing Concentration, BS

About the Program

Agricultural economics graduates apply economic principles and use quantitative tools to analyze data which assists the agricultural sector in making better decisions. These decision involve a wide array of issues including price analysis, international development, international trade, environmental resources, and agricultural policy. Concentrations include:

- Applied Agricultural Economics
- Commodity Marketing
- Quantitative Analysis

Agricultural Economics (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (95-96 credits)

Required AGECE courses (26 credits)

- AGECE 20200 - Spreadsheet Use In Agricultural Business
- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGECE 21700 - Economics
- AGECE 22000 - Economics Of Agricultural Markets
- AGECE 29800 - Sophomore Seminar
- AGECE 30500 - Agricultural Prices
- AGECE 32100 - Principles Of Commodity Marketing

- AGECE 35200 - Quantitative Techniques For Firm Decision Making
or
- AGECE 45100 - Applied Econometrics

- AGECE 42100 - Advanced Commodity Marketing

- AGECE 41100 - Farm Management
or
- AGECE 43000 - Agricultural And Food Business Strategy

Major Selectives - 3 credits

- AGECE Selective - Credit Hours: 3.00

Other Departmental /Program Course Requirements (66-67 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I ♦ (satisfies Quantitative Reasoning for core)

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Agronomy or Animal Science Selective at 20000+ - Credit Hours: 3.00
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- Mathematics or Science Selective - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communications Selective - Credit Hours: 3.00
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (24 - 25 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning

- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click here.

Program Requirements

Fall 1st Year

- AGECE 20200 - Spreadsheet Use In Agricultural Business
- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- MA 16010 - Applied Calculus I ♦
- Biological Sciences Selective - Credit Hours: 4.00

15-16 Credits

Spring 1st Year

- AGECE 21700 - Economics

- COM 11400 - Fundamentals Of Speech Communication

- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Biological Sciences Selective - Credit Hours: 4.00
- UCC Humanities Selective - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- AGECE 22000 - Economics Of Agricultural Markets
- AGECE 29800 - Sophomore Seminar
- CHM 11100 - General Chemistry
- STAT 30100 - Elementary Statistical Methods
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- CHM 11200 - General Chemistry

- MGMT 20000 - Introductory Accounting
- or
- MGMT 20010 - Business Accounting

- Agricultural Economics Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- AGECE 32100 - Principles Of Commodity Marketing

- AGECE 35200 - Quantitative Techniques For Firm Decision Making
- or

- AGEC 45100 - Applied Econometrics
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- Math/Science Selection - Credit Hours: 3.00
- AGEC 42100 - Advanced Commodity Marketing
- Agronomy or Animal Science Selective at 20000+ - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGEC 30500 - Agricultural Prices
- AGEC 41100 - Farm Management
or
- AGEC 43000 - Agricultural And Food Business Strategy
- Food and Agribusiness Management Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year

- Economics Selective - Credit Hours: 3.00
- Electives - Credit Hours: 9.00 - 10.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

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Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Agricultural Economics: Quantitative Analysis Concentration, BS

About the Program

Agricultural economics graduates apply economic principles and use quantitative tools to analyze data which assists the agricultural sector in making better decisions. These decisions involve a wide array of issues including price analysis, international development, international trade, environmental resources, and agricultural policy. Concentrations include:

- Applied Agricultural Economics
- Commodity Marketing
- Quantitative Analysis

Agricultural Economics (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (95-96 credits)

Required Major Courses (26 credits)

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGEC 21700 - Economics
- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 29800 - Sophomore Seminar
- AGEC 35200 - Quantitative Techniques For Firm Decision Making
- AGEC 37500 - The Process Of Economic Research
- AGEC 45100 - Applied Econometrics
- AGEC 49900 - Thesis
- AGEC 51600 - Mathematical Tools For Agricultural And Applied Economics

Other Departmental /Program Course Requirements (69-70 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- ECON 34000 - Intermediate Microeconomic Theory
- MA 16010 - Applied Calculus I ♦ (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II (satisfies Information Literacy for core)

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- STAT 30100 - Elementary Statistical Methods
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or

- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communications Selective - Credit Hours: 3.00
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (24-25 credits)

- Elective - Credit Hours: 24.00-25.00

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click here.

Program Requirements

Fall 1st Year

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I ♦
- Biological Sciences Selective - Credit Hours: 4.00

15-16 Credits

Spring 1st Year

- AGEC 21700 - Economics
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- MA 16020 - Applied Calculus II
- Biological Sciences Selective - Credit Hours: 4.00
- UCC Humanities Selective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 29800 - Sophomore Seminar
- CHM 11100 - General Chemistry
- STAT 30100 - Elementary Statistical Methods
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGEC 37500 - The Process Of Economic Research
- AGEC 45100 - Applied Econometrics
- CHM 11200 - General Chemistry

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- Economics Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- AGEC 35200 - Quantitative Techniques For Firm Decision Making
- AGEC 49900 - Thesis
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

14 Credits

Spring 3rd Year

- AGEC 49900 - Thesis
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

14 Credits

Fall 4th Year

- AGECE 49900 - Thesis
- AGECE 51600 - Mathematical Tools For Agricultural And Applied Economics
- ECON 34000 - Intermediate Microeconomic Theory
- Humanities or Social Science Selective (30000+level) - Credit Hours: 3.00
- Electives - Credit Hours: 6.00

16 Credits

Spring 4th Year

- Economics Selective - Credit Hours: 3.00
- Electives - Credit Hours: 9.00-10.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

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Farm Management, BS

About the Program

Farm Management prepares people for managing the home farm, professional farm management, or understanding the challenge of managing a farm. Emphasis is placed on production, finance, marketing, and management strategies.

Farm Management Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (103-104 credits)

Required Major Courses (28 credits)

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGEC 21700 - Economics
- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 29800 - Sophomore Seminar
- AGEC 31000 - Farm Organization
- AGEC 32100 - Principles Of Commodity Marketing

- AGEC 35200 - Quantitative Techniques For Firm Decision Making
or
- AGEC 45100 - Applied Econometrics

- AGEC 41100 - Farm Management
- AGEC 42400 - Financial Management Of Agricultural Business

Other Departmental /Program Course Requirements (75-76 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I ♦ (satisfies Quantitative Reasoning for core)

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- Mathematics or Science Selective - Credit Hours: 3.00
- Farm Management Business Selective - Credit Hours: 3.00
- Farm Management Business Selective - Credit Hours: 3.00
- Farm Management Business Selective - Credit Hours: 3.00
- Production Agriculture Selective - Credit Hours: 3.00
- Production Agriculture Selective - Credit Hours: 3.00
- Production Agriculture Selective - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communications Selective - Credit Hours: 3.00
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (16-17 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- CHM 11100 - General Chemistry
- MA 16010 - Applied Calculus I ♦

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

14-15 Credits

Spring 1st Year

- AGEC 21700 - Economics

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or

- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- CHM 11200 - General Chemistry
- UCC Humanities Selective - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00
- Elective - Credit Hours: 1.00

16 Credits

Fall 2nd Year

- AGECE 22000 - Economics Of Agricultural Markets
- AGECE 29800 - Sophomore Seminar
- STAT 30100 - Elementary Statistical Methods
- Biological Science Selective - Credit Hours: 4.00
- Production Agriculture Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

16 Credits

Spring 2nd Year

- AGECE 31000 - Farm Organization
- Biological Science Selective - Credit Hours: 4.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting
- AGECE 32100 - Principles Of Commodity Marketing
- AGECE 35200 - Quantitative Techniques For Firm Decision Making
or
- AGECE 45100 - Applied Econometrics

- Written or Oral Communication Selective - Credit Hours: 3.00
- Farm Management Business Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- Economics Selective - Credit Hours: 3.00
- Farm Management Business Selective - Credit Hours: 3.00
- Math/Science Selective - Credit Hours: 3.00
- Production Agriculture Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGEC 41100 - Farm Management
- AGEC 42400 - Financial Management Of Agricultural Business
- Production Agriculture Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+level) - Credit Hours: 3.00

14 Credits

Spring 4th Year

- Farm Management Business Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Electives - Credit Hours: 7.00 - 8.00

13-14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Sales and Marketing, BS

About the Program

Sales and marketing graduates complete a degree program with a focus in sales, marketing, and management that give them the ability to enter numerous entry-level sales positions for agricultural and non-agricultural firms. These positions lead to professional careers in sales or marketing management. A wide spectrum of agricultural marketing organizations, food manufacturing companies, and farm supply industries are marketing-oriented and depend extensively on agricultural graduates who are well-trained in marketing tools and concepts.

Sales and Marketing Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (100-101 credits)

Required Major Courses (37 credits)

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGEC 21700 - Economics
- AGEC 22000 - Economics Of Agricultural Markets

- AGEC 29800 - Sophomore Seminar
- AGEC 32700 - Principles Of Food And Agribusiness Marketing
- AGEC 33000 - Management Methods For Agricultural Business
- AGEC 33100 - Principles Of Selling In Agricultural Business

- AGEC 35200 - Quantitative Techniques For Firm Decision Making
or
- AGEC 45100 - Applied Econometrics

- AGEC 42400 - Financial Management Of Agricultural Business
- AGEC 42700 - Advanced Agribusiness Marketing
- AGEC 43000 - Agricultural And Food Business Strategy
- AGEC 43100 - Advanced Agri-Sales And Marketing

Other Departmental /Program Course Requirements (63-64 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core) ♦

- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- MGMT 45500 - Legal Background For Business I
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- Communication Marketing Selective - Credit Hours: 3.00
- Mathematics or Science Selective - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or

- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communications Selective - Credit Hours: 3.00
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (19-20 credits)

- Elective - Credit Hours: 19.00-20.00

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGECE 20200 - Spreadsheet Use In Agricultural Business

- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness ♦
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11200 - Introduction To Agricultural Economics Academic Programs
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I ♦
- Biological Sciences Selective - Credit Hours: 4.00

15-16 Credits

Spring 1st Year

- AGECE 21700 - Economics
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Biological Sciences Selective - Credit Hours: 4.00
- UCC Humanities Selective - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- AGECE 22000 - Economics Of Agricultural Markets
- AGECE 29800 - Sophomore Seminar
- CHM 11100 - General Chemistry
- STAT 30100 - Elementary Statistical Methods
- Humanities or Social Science Selective - Credit Hours: 3.00
- Communication Marketing Selective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGECE 33000 - Management Methods For Agricultural Business
- AGECE 33100 - Principles Of Selling In Agricultural Business
- CHM 11200 - General Chemistry
- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting
- Humanities or Social Science Selective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- AGECE 32700 - Principles Of Food And Agribusiness Marketing
- AGECE 35200 - Quantitative Techniques For Firm Decision Making
or
- AGECE 45100 - Applied Econometrics
- AGECE 42400 - Financial Management Of Agricultural Business
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- MGMT 45500 - Legal Background For Business I
- Economics selective - Credit Hours: 3.00
- Math/Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGECE 42700 - Advanced Agribusiness Marketing
- AGECE 43100 - Advanced Agri-Sales And Marketing
- Electives - Credit Hours: 6.00

13 Credits

Spring 4th Year

- AGECE 43000 - Agricultural And Food Business Strategy
- Humanities or Social Science Selective (30000+level) - Credit Hours: 3.00
- Electives - Credit Hours: 7.00-8.00

13-14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

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Certificate

Industrial Selling Certificate

The Certificate in Industrial Selling will be open to students in any major who are interested in industrial selling.

It has three required courses and a capstone course, totaling thirteen credit hours. Each certificate earner must also complete a day long industry sales experience with a B2B sales practitioner in their area of professional interest, and must participate in a sales or marketing oriented experience on campus. It is expected that additional courses (sales management, negotiations, etc.) will be developed over time as alternatives and complements to this set of initial courses.

13 Credits Required

Requirements for the Certificate

Required Courses (9 credits)

- AGEC 33100 - Principles Of Selling In Agricultural Business
- CSR 31500 - Relationship Selling
- AGEC 32700 - Principles Of Food And Agribusiness Marketing

Capstone Course (4 credits)

- AGEC 43100 - Advanced Agri-Sales And Marketing

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Minor

Farm Management Minor

18 Credits Required

Requirements for the Minor

Required Courses: (10 credits)

- AGEC 31000 - Farm Organization

- AGEC 31100 - Accounting For Farm Business Planning
or
- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

- AGEC 41100 - Farm Management

Selective Courses: (8 credits)

- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 32100 - Principles Of Commodity Marketing
- AGEC 35200 - Quantitative Techniques For Firm Decision Making
- AGEC 42100 - Advanced Commodity Marketing
- AGEC 42400 - Financial Management Of Agricultural Business
- AGEC 42500 - Estate Planning And Property Transfer

- AGEC 45500 - Agricultural Law
or
- MGMT 45500 - Legal Background For Business I

- AGEC 45600 - Federal Income Tax Law
- AGEC 52400 - Agricultural Finance

- OLS 25200 - Human Relations In Organizations
or
- OLS 27400 - Applied Leadership

Notes

Department permission is not required to enroll in this minor.

* The required 18 credits are beyond the three-credit economics selective that is a part of core requirements for students in the College of Agriculture. For students from programs outside of the College of Agriculture, three credits of an economics selective are required in addition to the 18 credits noted above.

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Department of Agronomy

Overview

The Department of Agronomy provides progressive and relevant undergraduate, graduate and extension education programs; conducts high impact fundamental and applied research at multiple scales to ensure that our science addresses immediate problems and anticipates future challenges; actively engages partners in the public and private sectors; and contributes to the development of the national and international agenda for research and education.

Faculty

<https://ag.purdue.edu/agry/directory/Pages/default.aspx>

Contact Information

Department of Agronomy

Purdue University

Lilly Hall of Life Sciences
915 W. State Street
West Lafayette, IN 47907-2054
Phone: 765-494-4773

Email: agronomy@purdue.edu

Website: <http://ag.purdue.edu/agry>

The main office for the department is located in Room 2-414 of LILY Hall

Graduate Information

For Graduate Information please see [Agronomy Graduate Program Information](#).

Baccalaureate

Agronomy: Agronomic Business and Marketing Concentration, BS

About the Program

Agronomy includes three areas of concentration:

Agronomic Business and Marketing prepares students to meet the high demand for professionals in technical sales and marketing or professional field agronomy with strength in business. Students have the flexibility to tailor plans of study to meet

their individualized interests and needs by combining strengths in business, marketing, and agronomy. The unique advantage of this option is the primary strength generated in cropping system management amplified by strength in agri-business management.

Crop and Soil Management is for students interested in applying basic agronomic information to practical situations or problems. This is an ideal option for students who plan to become a professional crops/soils manager as an agronomist, farm manager, soil conservationist, or a related profession. Those interested in crop management frequently select cropping systems, crop physiology, plant breeding, and forage management courses.

International Agronomy is designed for students interested in the agronomic aspects of international agricultural development. The program prepares students for opportunities in world agriculture through careers with social action agencies, government and/or private industry. Students in this major build a strong foundation in science to go along with their study of international trade, culture, religion, language, food security, and agricultural development.

Agronomy (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (113-114 credits)

Required Major Courses (14 credits)

- AGRY 28500 - World Crop Adaptation And Distribution
or
- AGRY 29000 - Introduction To Environmental Science

- AGRY 25500 - Soil Science ♦
- AGRY 32000 - Genetics
- AGRY 36500 - Soil Fertility
- AGRY 39800 - Agronomy Seminar
- AGRY 49800 - Agronomy Senior Seminar

Other Departmental /Program Course Requirements (99-100 credits)

- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness

- AGECE 31100 - Accounting For Farm Business Planning
or
- MGMT 20010 - Business Accounting

- AGECE 32700 - Principles Of Food And Agribusiness Marketing
or
- MGMT 32300 - Principles Of Marketing

- AGE 33100 - Principles Of Selling In Agricultural Business
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- BIOL 11000 - Fundamentals Of Biology I

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- BTNY 30100 - Introductory Plant Pathology
- BTNY 30400 - Introductory Weed Science
- CHM 11100 - General Chemistry (satisfies Science Selective for core)
- CHM 11200 - General Chemistry (satisfies Science Selective for core)
- CHM 25700 - Organic Chemistry
- ENGL 42000 - Business Writing
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory

- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning Selective for core)
or
- MA 16010 - Applied Calculus I

- STAT 30100 - Elementary Statistical Methods (satisfies Quantitative Reasoning Selective for core)
- Agronomy Crops Selective - Credit Hours: 3.00
- Agronomy Selective - Credit Hours: 3.00
- Ecology Selective - Credit Hours: 3.00
- Agricultural Economics Selective - Credit Hour: 6.00
- Agricultural Economics, Consumer Science and Retailing, Horticulture, or OLS Selective - Credit Hours: 6.00
- Additional Math or Science Selective - Credit Hours: 8.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (6 - 7 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click here.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry

- MA 15800 - Precalculus- Functions And Trigonometry
or

- MA 16010 - Applied Calculus I
- Agronomy Crops Selective - Credit Hours: 3.00

14 Credits

Spring 1st Year

- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness
- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science
- Agronomy Selective - Credit Hours: 3.00
- CHM 11200 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

16-17 Credits

Fall 2nd Year

- AGRY 25500 - Soil Science ♦
- AGRY 39800 - Agronomy Seminar
- BTNY 30100 - Introductory Plant Pathology
- Elective - Credit Hours - 1.00
- CHM 25700 - Organic Chemistry
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

15 Credits

Spring 2nd Year

- AGRY 28500 - World Crop Adaptation And Distribution
or
- AGRY 29000 - Introduction To Environmental Science
- AGRY 36500 - Soil Fertility
- STAT 30100 - Elementary Statistical Methods
- Agricultural Economics Selective - Credit Hours: 3.00
- Ecology Selective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- AGECE 31100 - Accounting For Farm Business Planning
or
- MGMT 20010 - Business Accounting
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- Additional Math or Science Selectives - Credit Hours: 4.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

15 Credits

Spring 3rd Year

- AGECE 33100 - Principles Of Selling In Agricultural Business
- AGRY 32000 - Genetics
- BTNY 30400 - Introductory Weed Science
- Additional Math or Science Selectives - Credit Hours: 4.00
- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Fall 4th Year

- AGRY 49800 - Agronomy Senior Seminar
- Agricultural Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

13 Credits

Spring 4th Year

- AGECE 32700 - Principles Of Food And Agribusiness Marketing
or
- MGMT 32300 - Principles Of Marketing

- ENGL 42000 - Business Writing
- Agricultural Economics, Consumer Science and Retailing, Horticulture, or OLS Selective - Credit Hours: 6.00
- Electives - Credit Hours: 3.00 - 4.00

15-16 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Agronomy: Crop and Soil Management Concentration, BS

About the Program

Agronomy includes three areas of concentration:

Agronomic Business and Marketing prepares students to meet the high demand for professionals in technical sales and marketing or professional field agronomy with strength in business. Students have the flexibility to tailor plans of study to meet their individualized interests and needs by combining strengths in business, marketing, and agronomy. The unique advantage of this option is the primary strength generated in cropping system management amplified by strength in agri-business management.

Crop and Soil Management is for students interested in applying basic agronomic information to practical situations or problems. This is an ideal option for students who plan to become a professional crops/soils manager as an agronomist, farm manager, soil conservationist, or a related profession. Those interested in crop management frequently select cropping systems, crop physiology, plant breeding, and forage management courses.

International Agronomy is designed for students interested in the agronomic aspects of international agricultural development. The program prepares students for opportunities in world agriculture through careers with social action agencies, government and/or private industry. Students in this major build a strong foundation in science to go along with their study of international trade, culture, religion, language, food security, and agricultural development.

Agronomy (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (107-108 credits)

Required Major Courses (17 credits)

- AGRY 10500 - Crop Production
- AGRY 25500 - Soil Science ♦

- AGRY 28500 - World Crop Adaptation And Distribution (satisfies Science, Technology, & Society for core)
or
- AGRY 29000 - Introduction To Environmental Science

- AGRY 32000 - Genetics
- AGRY 36500 - Soil Fertility
- AGRY 39800 - Agronomy Seminar
- AGRY 49800 - Agronomy Senior Seminar

Other Departmental /Program Course Requirements (90-91 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry (satisfies Science Selective for core)
- CHM 11200 - General Chemistry (satisfies Science Selective for core)
- CHM 25700 - Organic Chemistry
- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning Selective for core)
or
- MA 16010 - Applied Calculus I
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy Selective for core)
- Agronomy Selective - Credit Hours: 3.00
- Ecology or Plant Ecology Selective - Credit Hours: 3.00
- Directed Selectives - Credit Hours: 27.00
- Math or Science Selectives - Credit Hours: 8.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (12 - 13 credits)

University Core Requirements

- Human Cultures Humanities

- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- AGRY 10500 - Crop Production
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry

- MA 15800 - Precalculus- Functions And Trigonometry
or
- MA 16010 - Applied Calculus I

14 Credits

Spring 1st Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science
- Economics Selective - Credit Hours: 3.00
- Electives - Credit Hours: 3.00
- CHM 11200 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

16-17 Credits

Fall 2nd Year

- AGRY 25500 - Soil Science ♦
- AGRY 39800 - Agronomy Seminar
- CHM 25700 - Organic Chemistry
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Directed Selective - Credit Hours: 3.00
- Elective - Credit Hours: 1.00

15 Credits

Spring 2nd Year

- AGRY 28500 - World Crop Adaptation And Distribution
or
- AGRY 29000 - Introduction To Environmental Science
- AGRY 36500 - Soil Fertility
- STAT 30100 - Elementary Statistical Methods
- Ecology or Plant Ecology Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- Directed Selectives - Credit Hours: 6.00
- Math or Science Selectives - Credit Hours: 4.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

15 Credits

Spring 3rd Year

- AGRY 32000 - Genetics
- Agronomy Selective - Credit Hours: 3.00
- Directed Selective - Credit Hours: 3.00
- Math or Science Selectives - Credit Hours: 4.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

16 Credits

Fall 4th Year

- AGRY 49800 - Agronomy Senior Seminar
- Directed Selectives - Credit Hours: 6.00
- UCC Humanities Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 4th Year

- Directed Selectives - Credit Hours: 9.00
- Electives - Credit Hours: 3.00 - 4.00

12-13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Agronomy: International Agronomy Concentration, BS

About the Program

Agronomy includes three areas of concentration:

Agronomic Business and Marketing prepares students to meet the high demand for professionals in technical sales and marketing or professional field agronomy with strength in business. Students have the flexibility to tailor plans of study to meet their individualized interests and needs by combining strengths in business, marketing, and agronomy. The unique advantage of this option is the primary strength generated in cropping system management amplified by strength in agri-business management.

Crop and Soil Management is for students interested in applying basic agronomic information to practical situations or problems. This is an ideal option for students who plan to become a professional crops/soils manager as an agronomist, farm manager, soil conservationist, or a related profession. Those interested in crop management frequently select cropping systems, crop physiology, plant breeding, and forage management courses.

International Agronomy is designed for students interested in the agronomic aspects of international agricultural development. The program prepares students for opportunities in world agriculture through careers with social action agencies, government and/or private industry. Students in this major build a strong foundation in science to go along with their study of international trade, culture, religion, language, food security, and agricultural development.

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (110-111 credits)

Required Major Courses (21 credits)

- AGRY 25500 - Soil Science ♦
- AGRY 28500 - World Crop Adaptation And Distribution (satisfies Science, Technology, & Society for UCC core)
- AGRY 32000 - Genetics
- AGRY 33500 - Weather And Climate
- AGRY 35000 - Global Awareness
- AGRY 36500 - Soil Fertility
- AGRY 39800 - Agronomy Seminar
- AGRY 49800 - Agronomy Senior Seminar
- AGRY 59800 - Special Problems

Other Departmental /Program Course Requirements (89-90 credits)

- AGECE 34000 - International Economic Development
- AGECE 45000 - International Agricultural Trade
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- BIOL 11000 - Fundamentals Of Biology I

- BIOL 11100 - Fundamentals Of Biology II
- or
- BTNY 11000 - Introduction To Plant Science

- CHM 11100 - General Chemistry (satisfies Science Selective for core)
- CHM 11200 - General Chemistry (satisfies Science Selective for core)
- CHM 25700 - Organic Chemistry

- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning Selective for core) or
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning Selective for core)

- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy Selective for core)
- Ecology or Plant Ecology Selective - Credit Hours: 3.00
- Agronomy International Development Selective - Credit Hours: 3.00
- Macroeconomics Selective - Credit Hours: 3.00

- Conversation Language Selective - Credit Hours: 2.00
- Directed Selective - Credit Hours: 6.00
- Agriculture or Science Selective - Credit Hours: 6.00
- Additional Math or Science Selective - Credit Hours: 8.00
- Microeconomics (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Foreign Language Selective - Credit Hours: 9.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (9 - 10 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, [click here](#).

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree

- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- MA 15800 - Precalculus- Functions And Trigonometry
or
- MA 16010 - Applied Calculus I

14 Credits

Spring 1st Year

- AGRY 28500 - World Crop Adaptation And Distribution

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- Microeconomics Selective - Credit Hours: 3.00
- CHM 11200 - General Chemistry

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition

or

- HONR 19903 - Interdisciplinary Approaches In Writing

16-17 Credits

Fall 2nd Year

- AGRY 25500 - Soil Science ♦
- AGRY 39800 - Agronomy Seminar
- Macroeconomics Selective - Credit Hours: 3.00
- CHM 25700 - Organic Chemistry
- Foreign Language Selective - Credit Hours: 3.00

14 Credits

Spring 2nd Year

- AGRY 36500 - Soil Fertility
- STAT 30100 - Elementary Statistical Methods
- Ecology or Plant Ecology Selective - Credit Hours: 3.00
- Math or Science Selective - Credit Hours: 3.00
- Written or Oral Communication - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- AGECE 45000 - International Agricultural Trade
- Directed Selective - Credit Hours: 3.00
- Foreign Language Selective - Credit Hours: 3.00
- Math or Science Selectives - Credit Hours: 4.00
- UCC Humanities Selective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- AGECE 34000 - International Economic Development

- AGRY 32000 - Genetics
- AGRY 33500 - Weather And Climate
- AGRY 35000 - Global Awareness
- Conversation Language Selective - Credit Hours: 2.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGRY 49800 - Agronomy Senior Seminar
- AGRY 59800 - Special Problems
- Agronomy International Development Selective - Credit Hours: 3.00
- Foreign Language Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

13 Credits

Spring 4th Year

- Directed Selectives - Credit Hours: 3.00
- Agriculture or Science Selective - Credit Hours: 6.00
- Electives - Credit Hours: 6.00 - 7.00

15-16 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Applied Meteorology and Climatology, BS

About the Program

Many graduates pursue careers with the National Weather Service, the National Environmental Satellite Data and Information Service, the Environmental Research Laboratories, and the Department of Defense. Graduates also pursue careers with private meteorological or environmental consulting firms that provide weather information and apply atmospheric sciences to air pollution control, energy distribution, marketing, transportation, weather modification, and agriculture. Graduates also work for insurance and commodities industries that employ meteorologists who are educated in statistics, agriculture, and world climates.

Applied meteorologists apply weather and climate information to problems facing agriculture and commerce. Students acquire the skills and tools necessary to improve the health, safety, and productivity of today's world. Graduates work on many environmental problems such as air quality, renewable energy sources, climate change and the impacts of climate change.

The option involves extensive coursework in meteorology, physics, and mathematics, as well as first-hand experience in applying basic concepts to real world situations. Internship programs are available with private industry, the National Weather Service, or the National Oceanic and Atmospheric Administration. In addition there are regular opportunities to work in University laboratories and the State Climate Office.

Applied Meteorology and Climatology Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (112-113 credits)

Required Major Courses (32 credits)

- AGRY 28500 - World Crop Adaptation And Distribution (satisfies Science, Technology and Society for core)
- AGRY 33500 - Weather And Climate
- AGRY 33700 - Environmental Hydrology

- AGRY 39800 - Agronomy Seminar
- AGRY 43100 - Atmospheric Thermodynamics
- AGRY 43200 - Atmospheric Dynamics I
- AGRY 43300 - Atmospheric Dynamics II
- AGRY 44100 - Synoptic Laboratory I
- AGRY 44200 - Synoptic Laboratory II
- AGRY 44300 - Synoptic Laboratory III
- AGRY 49800 - Agronomy Senior Seminar
- AGRY 53500 - Boundary Layer Meteorology
- AGRY 53600 - Environmental Biophysics
- AGRY 54500 - Remote Sensing Of Land Resources

Other Departmental /Program Course Requirements (80-81 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry (satisfies Science Selective for core)
- CHM 11200 - General Chemistry (satisfies Science Selective for core)
- CS 15800 - C Programming
- EAPS 13700 - Freshman Seminar In Earth And Atmospheric Sciences
- EAPS 43400 - Weather Analysis And Forecasting
- EAPS 53200 - Atmospheric Physics I
- EAPS 53500 - Atmospheric Observations And Measurements
- MA 16100 - Plane Analytic Geometry And Calculus I (satisfies Quantitative Reasoning Selective for core)
- MA 16200 - Plane Analytic Geometry And Calculus II
- MA 26100 - Multivariate Calculus ♦
- MA 26200 - Linear Algebra And Differential Equations
- PHYS 17200 - Modern Mechanics
- PHYS 24100 - Electricity And Optics
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy Selective for core)
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (7 - 8 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry
- MA 16100 - Plane Analytic Geometry And Calculus I
- Elective - Credit Hours: 1.00

14 Credits

Spring 1st Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science
- CHM 11200 - General Chemistry
- EAPS 13700 - Freshman Seminar In Earth And Atmospheric Sciences
- MA 16200 - Plane Analytic Geometry And Calculus II
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

16-17 Credits

Fall 2nd Year

- AGRY 39800 - Agronomy Seminar
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- CS 15800 - C Programming
- MA 26100 - Multivariate Calculus ♦
- PHYS 17200 - Modern Mechanics

15 Credits

Spring 2nd Year

- AGRY 33500 - Weather And Climate
- MA 26200 - Linear Algebra And Differential Equations
- PHYS 24100 - Electricity And Optics
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- AGRY 43100 - Atmospheric Thermodynamics
- AGRY 44100 - Synoptic Laboratory I
- STAT 30100 - Elementary Statistical Methods
- UCC Humanities selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Written or Oral Communication selective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- AGRY 28500 - World Crop Adaptation And Distribution
- AGRY 43200 - Atmospheric Dynamics I
- AGRY 44200 - Synoptic Laboratory II
- Humanities or Social Science Selective - Credit Hours: 3.00
- Electives - Credit Hours: 3.00

13 Credits

Fall 4th Year

- AGRY 43300 - Atmospheric Dynamics II
- AGRY 44300 - Synoptic Laboratory III
- AGRY 49800 - Agronomy Senior Seminar
- AGRY 53500 - Boundary Layer Meteorology
- AGRY 54500 - Remote Sensing Of Land Resources
- EAPS 53500 - Atmospheric Observations And Measurements

14 Credits

Spring 4th Year

- AGRY 33700 - Environmental Hydrology
- AGRY 53600 - Environmental Biophysics
- EAPS 43400 - Weather Analysis And Forecasting
- EAPS 53200 - Atmospheric Physics I
- Elective - Credit Hours: 3.00 - 4.00

15-16 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Crop Science, BS

About the Program

Crop science provides an education in the basic sciences, with applications in crop plant management and crop improvement. Opportunities are numerous and encompass a broad range in science, business, and education. Students are especially qualified for graduate study in plant nutrition, environmental science, crop physiology and ecology, biotechnology and plant genetics, and plant breeding.

Crop Science Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (111-113 credits)

Required Major Courses (27-29 credits)

- AGRY 10500 - Crop Production
- AGRY 25500 - Soil Science ♦

- AGRY 28500 - World Crop Adaptation And Distribution
or
- AGRY 29000 - Introduction To Environmental Science

- AGRY 39800 - Agronomy Seminar
- AGRY 36500 - Soil Fertility
- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- AGRY 33500 - Weather And Climate
- AGRY 49800 - Agronomy Senior Seminar

- AGRY 51500 - Plant Mineral Nutrition
or
- BTNY 31600 - Plant Anatomy

- AGRY 52500 - Crop Physiology And Ecology
or
- HORT 30100 - Plant Physiology

Major Selectives (6 credits)

- Agronomy Selectives - Credit Hours: 6.00

Other Departmental /Program Course Requirements (77-78 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- BCHM 30700 - Biochemistry
- BCHM 30900 - Biochemistry Laboratory
- BIOL 11000 - Fundamentals Of Biology I

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- BTNY 30100 - Introductory Plant Pathology
- BTNY 30400 - Introductory Weed Science
- CHM 11100 - General Chemistry (satisfies Science Selective for core)
- CHM 11200 - General Chemistry (satisfies Science Selective for core)
- CHM 25700 - Organic Chemistry
- CHM 25701 - Organic Chemistry Laboratory
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning Selective for core)
- MA 16020 - Applied Calculus II
- PHYS 22000 - General Physics
- PHYS 22100 - General Physics
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy Selective for core)
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Business Selective - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (9 - 10 credits)

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- AGRY 10500 - Crop Production
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry
- MA 16010 - Applied Calculus I

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or

- HONR 19903 - Interdisciplinary Approaches In Writing

17-18 Credits

Spring 1st Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- CHM 11200 - General Chemistry
- MA 16020 - Applied Calculus II
- Agronomy Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- AGRY 25500 - Soil Science ♦
- AGRY 39800 - Agronomy Seminar
- CHM 25700 - Organic Chemistry
- CHM 25701 - Organic Chemistry Laboratory

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Elective - Credit Hours: 3.00

15 Credits

Spring 2nd Year

- AGRY 28500 - World Crop Adaptation And Distribution
or
- AGRY 29000 - Introduction To Environmental Science

- AGRY 36500 - Soil Fertility
- STAT 30100 - Elementary Statistical Methods

- Agronomy Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- BTNY 30100 - Introductory Plant Pathology
- PHYS 22000 - General Physics
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

17 Credits

Spring 3rd Year

- AGRY 33500 - Weather And Climate
- PHYS 22100 - General Physics
- Written or Oral Communication Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00

13 Credits

Fall 4th Year

- AGRY 49800 - Agronomy Senior Seminar
- AGRY 51500 - Plant Mineral Nutrition
or
- BTNY 31600 - Plant Anatomy
- BCHM 30700 - Biochemistry
- BCHM 30900 - Biochemistry Laboratory
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- Elective - Credit Hours: 3.00

14-15 Credits

Spring 4th Year

- AGRY 52500 - Crop Physiology And Ecology
or
- HORT 30100 - Plant Physiology

- BTNY 30400 - Introductory Weed Science
- Business Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 0.00 - 1.00

12-14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Plant Genetics, Breeding, and Biotechnology, BS

About the Program

Plant genetics, breeding, and biotechnology students are interested in agricultural biotechnology, genetic engineering, and research in genetic mechanisms that control crop growth and development. Students prepare for many research opportunities in industry and acquire the necessary background for graduate studies. Students also learn the fundamentals of genetics and practical plant breeding as well as the latest developments in genetic engineering, environmentally sound crop production practices, development of varieties appropriate for the agriculture of developing countries, and strategies for developing plant lines adapted to environmental stresses. Opportunities exist for training both in laboratory and field practices important to modern genetics research. A professional internship involving practical aspects of the option is required.

Plant Genetics, Breeding, and Biotechnology Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (110 to 111 credits)

Required Major Courses (21-22 credits)

- AGRY 25500 - Soil Science ♦
- AGRY 28500 - World Crop Adaptation And Distribution
- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- AGRY 39800 - Agronomy Seminar
- AGRY 48000 - Plant Genetics
- AGRY 49800 - Agronomy Senior Seminar
- AGRY 52000 - Principles And Methods Of Plant Breeding
- AGRY 52500 - Crop Physiology And Ecology
or
- HORT 30100 - Plant Physiology

Other Departmental /Program Course Requirements (89-91 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- AGR 12500 - Introduction To Plant Science
- BCHM 30700 - Biochemistry
- BCHM 30900 - Biochemistry Laboratory
- BIOL 11000 - Fundamentals Of Biology I

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- BIOL 22100 - Introduction To Microbiology

- BIOL 23100 - Biology III: Cell Structure And Function
or
- BTNY 42000 - Plant Cellular And Developmental Biology
- BIOL 41500 - Introduction To Molecular Biology
or
- BTNY 35000 - Biotechnology In Agriculture
- CHM 11500 - General Chemistry (satisfies Science Selective for core)
- CHM 11600 - General Chemistry (satisfies Science Selective for core)
- CHM 25700 - Organic Chemistry
- CHM 25701 - Organic Chemistry Laboratory
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning Selective for core)
- MA 16020 - Applied Calculus II
- PHYS 17200 - Modern Mechanics
or
- PHYS 22000 - General Physics
- PHYS 22100 - General Physics
or
- PHYS 24100 - Electricity And Optics
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy Selective for core)
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Directed Selective - Credit Hours: 12.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation (satisfies Oral Communication for core)
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (7-10 credits)

- Elective (credits required depend on Math, Physics, & Physiology course choices) - Credit Hours: 7.00 to 10.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- AGR 12500 - Introduction To Plant Science
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11500 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I

16-17 Credits

Spring 1st Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science
- CHM 11600 - General Chemistry
- MA 16020 - Applied Calculus II
- Elective* - Credit Hours: 3.00

14 Credits

Fall 2nd Year

- AGRY 32000 - Genetics ♦
- AGRY 32100 - Genetics Laboratory
- AGRY 39800 - Agronomy Seminar
- PHYS 17200 - Modern Mechanics
or
- PHYS 22000 - General Physics
- Economics Selective - Credit Hours: 3.00
- Directed Selective - Credit Hours: 3.00

15 Credits

Spring 2nd Year

- AGRY 28500 - World Crop Adaptation And Distribution
- CHM 25700 - Organic Chemistry
- CHM 25701 - Organic Chemistry Laboratory
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or

- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- PHYS 22100 - General Physics
or
- PHYS 24100 - Electricity And Optics
- Elective - Credit Hours:1.00

15-16 Credits

Fall 3rd Year

- AGRY 25500 - Soil Science
- BCHM 30700 - Biochemistry
- BCHM 30900 - Biochemistry Laboratory
- BIOL 23100 - Biology III: Cell Structure And Function
or
- BTNY 42000 - Plant Cellular And Developmental Biology
- UCC Humanities Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

15 Credits

Spring 3rd Year

- BIOL 22100 - Introduction To Microbiology
- Directed Selective - Credit Hours: 6.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Fall 4th Year

- AGRY 48000 - Plant Genetics
- AGRY 49800 - Agronomy Senior Seminar
- AGRY 52000 - Principles And Methods Of Plant Breeding
- BIOL 41500 - Introduction To Molecular Biology
or

- BTNY 35000 - Biotechnology In Agriculture
- STAT 30100 - Elementary Statistical Methods

13 Credits

Spring 4th Year

- AGRY 52500 - Crop Physiology And Ecology
or
- HORT 30100 - Plant Physiology
- Directed Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Electives - Credit Hours: 1.00-4.00

13-17 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Additional Requirements

Select here for additional lists.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Soil and Water Sciences, BS

About the Program

The Soil and Water Sciences option provides a strong science education, while preparing students to apply this knowledge in many technical phases of soil, water resources and environmental management. Opportunities are numerous and encompass a broad range in science, management, and education with diverse applications addressing agricultural water use, food security, soil and water quality and secure water supplies. Students are especially qualified for graduate study in hydrology, water resources, soil chemistry, soil physics, soil microbiology, environmental science, soil mineralogy and genesis, and ecology.

Soil and Water Sciences Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (109 to 110 credits)

Required Major Courses (29 to 30 credits)

- AGRY 25500 - Soil Science ♦
- AGRY 29000 - Introduction To Environmental Science
- AGRY 33500 - Weather And Climate
- AGRY 33700 - Environmental Hydrology
- AGRY 34900 - Soil Ecology
- or
- AGRY 38500 - Environmental Soil Chemistry

- AGRY 36500 - Soil Fertility
- AGRY 39800 - Agronomy Seminar

- AGRY 45000 - Soil Conservation and Water Management
- or
- AGRY 58500 - Soils And Land Use

- AGRY 46500 - Soil Physical Properties
- AGRY 49800 - Agronomy Senior Seminar

- AGRY 56500 - Soils And Landscapes

Other Departmental /Program Course Requirements (79-80 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11300 - Introduction To Agronomy Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry (satisfies Science Selective for core)
- CHM 11200 - General Chemistry (satisfies Science Selective for core)
- CHM 25700 - Organic Chemistry
- CHM 25701 - Organic Chemistry Laboratory
- EAPS 11100 - Physical Geology
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning Selective for core)
- MA 16020 - Applied Calculus II
- PHYS 22000 - General Physics
- PHYS 22100 - General Physics
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy Selective for core)
- Crop or Plant Science Selective - Credit Hours: 3.00
- Ecology Selective - Credit Hours: 3.00
- Engineering or Science Selective - Credit Hours: 3.00
- Genetics or Crop Physiology and Ecology, or Biochemistry selective - Credit Hours: 3.00
- Agricultural Economics, Economics, Management or Organizational Leadership and Supervision Selective - Credit Hours: 3.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (10-12 credits)

- Elective - Credit Hours: 10.00 - 12.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
 - AGR 11300 - Introduction To Agronomy Academic Programs
 - BIOL 11000 - Fundamentals Of Biology I
 - CHM 11100 - General Chemistry
 - ENGL 10600 - First-Year Composition
- or

- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I

14-15 Credits

Spring 1st Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science
- CHM 11200 - General Chemistry
- MA 16020 - Applied Calculus II
- Economics Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- AGRY 25500 - Soil Science ♦
- AGRY 29000 - Introduction To Environmental Science
- AGRY 39800 - Agronomy Seminar
- CHM 25700 - Organic Chemistry
- CHM 25701 - Organic Chemistry Laboratory
- Crop or Plant Science Selective - Credit Hours: 3.00

15 Credits

Spring 2nd Year

- AGRY 36500 - Soil Fertility
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- PHYS 22000 - General Physics
- Ecology Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

15 Credits

Fall 3rd Year

- AGRY 34900 - Soil Ecology
or
- AGRY 38500 - Environmental Soil Chemistry
- EAPS 11100 - Physical Geology
- PHYS 22100 - General Physics
- UCC Humanities Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

15-16 Credits

Spring 3rd Year

- AGRY 33700 - Environmental Hydrology
- STAT 30100 - Elementary Statistical Methods
- Genetics or Crop Physiology and Ecology, or Biochemistry selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGRY 45000 - Soil Conservation and Water Management
or
- AGRY 58500 - Soils And Land Use
- AGRY 46500 - Soil Physical Properties
- AGRY 49800 - Agronomy Senior Seminar
- AGRY 56500 - Soils And Landscapes
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

13 Credits

Spring 4th Year

- AGRY 33500 - Weather And Climate
- Engineering or Science Selective - Credit Hours: 3.00
- Agricultural Economics, Economics, Management or Organizational Leadership and Supervision Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Electives - Credit Hours: 3.00-5.00

15-17 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Minor

Crop Science Minor

Total Credits Required: 18

Requirements for the Minor

Required Courses (6 credits)

- AGRY 10500 - Crop Production
or
- AGRY 37500 - Crop Production Systems
- AGRY 25500 - Soil Science

Selective Courses (12 credits)

- AGRY 10500 - Crop Production *
- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- AGRY 33500 - Weather And Climate
- AGRY 36500 - Soil Fertility
- AGRY 37500 - Crop Production Systems *
- AGRY 48000 - Plant Genetics
- AGRY 50500 - Forage Management
- AGRY 51500 - Plant Mineral Nutrition
- AGRY 52000 - Principles And Methods Of Plant Breeding

- AGRY 52500 - Crop Physiology And Ecology
or
- HORT 30100 - Plant Physiology

- BTNY 30100 - Introductory Plant Pathology
- BTNY 30400 - Introductory Weed Science
- BTNY 35000 - Biotechnology In Agriculture
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory

Notes

Departmental permission is not required to enroll in this minor.

Students majoring in the Department of Agronomy cannot obtain a Crop Science minor.

* If not used above as a required course.

Disclaimer

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The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Soil Science Minor

18 Credits Required

Requirements for the Minor

Required Courses (6 credits)

- AGRY 25500 - Soil Science
- AGRY 36500 - Soil Fertility

Selective Courses (12 credits)

- AGRY 29000 - Introduction To Environmental Science
- AGRY 33500 - Weather And Climate
- AGRY 33700 - Environmental Hydrology
- AGRY 33800 - Environmental Hydrology Laboratory
- AGRY 34900 - Soil Ecology
- AGRY 35500 - Soil Morphology And Geography
- AGRY 38500 - Environmental Soil Chemistry
- AGRY 45000 - Soil Conservation and Water Management
- AGRY 46500 - Soil Physical Properties
- AGRY 54000 - Soil Chemistry
- AGRY 54400 - Environmental Organic Chemistry
- AGRY 54500 - Remote Sensing Of Land Resources
- AGRY 55500 - Soil And Plant Analysis
- AGRY 56000 - Soil Physics
- AGRY 56500 - Soils And Landscapes
- AGRY 58000 - Soil Microbiology
- AGRY 58200 - Environmental Fate Of Pesticides
- AGRY 58500 - Soils And Land Use

Notes

Departmental permission is not required to enroll in this minor.

Students majoring in the Department of Agronomy cannot obtain a Crop Science minor.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Sustainable Environments Minor

15 Credits Required

Requirements for the Minor

Required Courses (3 credits)

- NRES 29000 - Introduction To Environmental Science

Selective Courses (12 credits)

- AD 39700 - Sustainability In The Built Environment
- ASM 33600 - Environmental Systems Management
- BCM 51000 - Topics In Environmentally Sustainable Construction, Design And Development
- BIOL 48300 - Great Issues: Environmental And Conservation Biology
- CE 35500 - Engineering Environmental Sustainability
- EAPS 30100 - Oil !
- EAPS 32700 - Climate, Science And Society
- EAPS 37500 - Great Issues - Fossil Fuels, Energy And Society
- FNR 37500 - Human Dimensions of Natural Resource Management
- FNR 47000 - Fundamentals Of Planning
- FNR 48800 - Global Environmental Issues
- HORT 44200 - Sustainability In The Managed Landscape
- POL 32700 - Global Green Politics

Note

Departmental permission is not required to enroll in this minor.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Department of Animal Sciences

Overview

The Purdue University Department of Animal Sciences promotes leadership and inspiration to educate students, enabling them to anticipate and effectively respond to challenges facing the global animal industries. The Animal Sciences faculty conducts relevant scientific research and facilitates technology transfer for efficient and sustainable production of high quality animal products, optimizing animal well-being, enhancing the human diet, and advancing sound environmental practices.

The vision of the Department of Animal Sciences is simple. We desire to be the "place to go" for the citizens of Indiana and beyond for knowledge in animal sciences. This includes students, commodity groups, industry partners, government agencies, consumers, and many others. Our shared goals are to:

- provide students with a rigorous and relevant education, preparing them for a lifetime of learning;
- achieve scientific preeminence in selected areas, and develop teams to identify and solve real world problems; and
- meet the needs of our diverse clientele making the best use of emerging technologies.

The Animal Sciences faculty has expertise in the disciplines of growth and development, nutrition, breeding and genetics, physiology, management, and animal well-being and behavior. In addition, scientists in the USDA Livestock Behavior Unit associated with Purdue are adjunct faculty members.

Concentrations include:

- Animal Agribusiness
- Behavior/Wellbeing
- Biosciences
- Preveterinary Medicine
- Production
- Products

Faculty

<https://ag.purdue.edu/ansc/Pages/directory.aspx>

Contact Information

Department of Animal Sciences

Purdue University

Lilly Hall of Life Sciences

915 W. State St.

West Lafayette, IN 47907

765-494-4843

Email: ansc4you@purdue.edu

Website: ag.purdue.edu/ansc

The Main office for the department is located in 2-111 of LILY Hall.

Baccalaureate

Animal Sciences: Animal Agribusiness Concentration, BS

About the Program

This Department of Animal Sciences option is best suited for those interested in business aspects of the animal industry and gaining knowledge in accounting, sales and marketing, and business management. Graduates are high in demand in sales and service areas of animal health products; feed, production, equipment firms; sales companies; and animal representatives for banks and lending organizations, insurance companies, marketing, advertising, and public relations agencies. You may be well suited for animal agribusiness if you enjoy meeting people, have a good oral communication skills as well as a proficiency in writing. Experience with raising and managing of animals is essential since you will be expected to interact and relate to managers, veterinarians, businessmen, and owners of animal enterprises. An interest in economics, marketing, and business management is important.

[Animal Sciences \(multiple concentrations\) Website](#)

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (107-108 credits)

Required Major Courses (12 credits)

- ANSC 10200 - Introduction To Animal Agriculture (UCC STS Selective)
- ANSC 18100 - Orientation To Animal Sciences
- ANSC 22100 - Principles Of Animal Nutrition ♦
- ANSC 23000 - Physiology Of Domestic Animals
- ANSC 48100 - Contemporary Issues in Animal Sciences

ANSC Restricted Selectives (21 credits, 18 credits have to be 30000 or higher)

(see ANSC Undergraduate Student Handbook)

- Animal Genetics Selective - Credit Hours: 4.00
- Animal Nutrition Selective - Credit Hours: 3.00
- Animal Physiology Selective - Credit Hours: 3.00
- Animal Production/Management Selective - Credit Hours: 3.00
- Animal Products Selective - Credit Hours: 3.00
- Animal Sciences Selectives - Credit Hours: 5.00

Other Departmental /Program Course Requirements (74-75 credits)

(see ANSC Undergraduate Student Handbook)

- AGEC 20200 - Spreadsheet Use In Agricultural Business
- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness (satisfies Human Culture Behavioral/Social Science for core)
- AGEC 33000 - Management Methods For Agricultural Business
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs
- AGRY 32000 - Genetics
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- CHM 25700 - Organic Chemistry
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Agricultural Economics, Economics, or Management Selective - Credit Hours: 12.00
- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communication Selective (20000+level) - Credit Hours: 3.00

Electives (12 - 13 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click here.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs
- ANSC 10200 - Introduction To Animal Agriculture
- BIOL 11000 - Fundamentals Of Biology I

- CHM 11100 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

14-15 Credits

Spring 1st Year

- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness
- ANSC 18100 - Orientation To Animal Sciences
- BIOL 11100 - Fundamentals Of Biology II
- CHM 11200 - General Chemistry
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- MA 16010 - Applied Calculus I

17 Credits

Fall 2nd Year

- AGECE 20200 - Spreadsheet Use In Agricultural Business
- ANSC 22100 - Principles Of Animal Nutrition ♦
- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting
- Economics Selective - Credit Hours- 3.00
- UCC Humanities Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGE 33000 - Management Methods For Agricultural Business
- AGRY 32000 - Genetics
- ANSC 23000 - Physiology Of Domestic Animals
- CHM 25700 - Organic Chemistry

14 Credits

Fall 3rd Year

- STAT 30100 - Elementary Statistical Methods
- Agricultural Economics, Economics, or Management Selective - Credit Hours: 3.00
- Animal Nutrition Selective - Credit Hours: 3.00
- Animal Physiology Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- Agricultural Economics, Economics, or Management Selective - Credit Hours: 3.00
- Animal Genetics Selective - Credit Hours: 4.00
- Animal Products Selective - Credit Hours: 3.00
- Animal Sciences Selective - Credit Hours: 2.00
- Humanities or Social Science Selective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- ANSC 48100 - Contemporary Issues in Animal Sciences
- Agricultural Economics, Economics, or Management Selective - Credit Hours: 3.00
- Animal Production/Management Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Electives - Credit Hours: 5.00

15 Credits

Spring 4th Year

- Animal Sciences Selective - Credit Hours: 3.00
- Agricultural Economics, Economics, or Management Selective - Credit Hours: 3.00
- Electives - Credit Hours: 7.00 - 8.00

13-14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

ANSC courses must be at 2.0 or higher GPA to earn a BS in Animal Sciences

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Animal Sciences: Behavior/Well-Being Concentration, BS

About the Program

Students desiring a balance of animal production, behavioral sciences, and well-being are best served by this option in the department of Animal Sciences. Careers available as managers of animal production units (e.g., beef cow-calf or feed lot manager, flock supervisor, swine manager or horse trainer or breeder). Limited career opportunities may be available as an

animal trainer, zoo environmental enhancement specialist, companion animal consultant, breed association animal well-being specialist, and pet safety education specialist for a humane society. Students interested in advanced studies can become animal behavior consultants or scientists at universities.

Animal Sciences (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (110-111 credits)

Required Major Courses (15 credits)

- ANSC 10200 - Introduction To Animal Agriculture (UCC STS Selective)
- ANSC 18100 - Orientation To Animal Sciences
- ANSC 22100 - Principles Of Animal Nutrition ♦
- ANSC 23000 - Physiology Of Domestic Animals
- ANSC 40400 - Animal Welfare
- ANSC 48100 - Contemporary Issues in Animal Sciences

ANSC Restricted Selectives (21 credits, 18 credits have to be 30000 or higher)

(see ANSC Undergraduate Student Handbook)

- Animal Genetics Selective - Credit Hours: 4.00
- Animal Nutrition Selective - Credit Hours: 3.00
- Animal Physiology Selective - Credit Hours: 3.00
- Animal Production/Management selective - Credit Hours: 3.00
- Animal Products Selective - Credit Hours: 3.00
- Animal Sciences Selectives - Credit Hours: 5.00

Other Departmental /Program Course Requirements (74-75 credits)

(see ANSC Undergraduate Student Handbook)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs
- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- BCHM 30700 - Biochemistry
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
- CHM 11500 - General Chemistry (satisfies Science #1 for core)

- CHM 11600 - General Chemistry (satisfies Science #2 for core)
- CHM 25500 - Organic Chemistry
- CHM 25501 - Organic Chemistry Laboratory
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Behavior/Well-being Selective - Credit Hours: 9.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (9 - 10 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs
- ANSC 10200 - Introduction To Animal Agriculture
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11500 - General Chemistry
- MA 16010 - Applied Calculus I

15 Credits

Spring 1st Year

- ANSC 18100 - Orientation To Animal Sciences
- BIOL 11100 - Fundamentals Of Biology II
- CHM 11600 - General Chemistry
- MA 16020 - Applied Calculus II

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

15-16 Credits

Fall 2nd Year

- ANSC 22100 - Principles Of Animal Nutrition ♦
- CHM 25500 - Organic Chemistry
- CHM 25501 - Organic Chemistry Laboratory

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Animal Sciences Selective - Credit Hours: 2.00
- Economics Selective - Credit Hours: 3.00

15 Credits

Spring 2nd Year

- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- ANSC 23000 - Physiology Of Domestic Animals
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory
- UCC Humanities Selective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- ANSC 40400 - Animal Welfare
- BCHM 30700 - Biochemistry
- STAT 30100 - Elementary Statistical Methods
- Animal Physiology Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- Animal Genetics Selective - Credit Hours: 4.00
- Animal Nutrition Selective - Credit Hours: 3.00
- Behavior/Well-being Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

15 Credits

Fall 4th Year

- ANSC 48100 - Contemporary Issues in Animal Sciences
- Animal Production/Management Selective - Credit Hours: 3.00
- Animal Sciences Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Behavior/Well-being Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

15 Credits

Spring 4th Year

- Behavior/Well-being Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Animal Products Selective - Credit Hours: 3.00
- Electives - Credit Hours: 5.00 - 6.00

14-15 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

2.0 GPA required for Animal Science Courses

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Animal Sciences: Biosciences Concentration, BS

About the Program

The Department of Animal Sciences offers this specialization that is intended for students seeking careers in research or technical services related to animal nutrition, growth and development, animal genetics, reproduction, animal well-being, and management. Those in this specialization should have a strong interest in and curiosity in discovery and have enjoyed their high school biology, chemistry, mathematics, and physics courses. Students who aspire to careers in research and teaching in colleges and universities or in agribusinesses should enroll in this option. It can also be used as an excellent preparation for professional careers such as human medical doctors, veterinarians, dentists, and employment in the nutrition, genomics, and pharmaceutical industries. Graduates continuing for the M.S. or Ph.D. degrees in animal sciences qualify for numerous research, teaching, or extension positions in industry, government, universities, and colleges.

Animal Sciences (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (111-112 credits)

Required Major Courses (12 credits)

- ANSC 10200 - Introduction To Animal Agriculture (UCC STS Selective)
- ANSC 18100 - Orientation To Animal Sciences
- ANSC 22100 - Principles Of Animal Nutrition ♦
- ANSC 23000 - Physiology Of Domestic Animals
- ANSC 48100 - Contemporary Issues in Animal Sciences

ANSC Restricted Selectives (21 credits, 18 credits must be 30000 or higher)

(see ANSC Undergraduate Student Handbook)

- Animal Genetics Selective - Credit Hours: 4.00
- Animal Nutrition Selective - Credit Hours: 3.00
- Animal Physiology Selective - Credit Hours: 3.00
- Animal Production/Management selective - Credit Hours: 3.00
- Animal Products Selective - Credit Hours: 3.00
- Animal Sciences Selectives - Credit Hours: 5.00

Other Departmental /Program Course Requirements (78-79 credits)

(see ANSC Undergraduate Student Handbook)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs
- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- BCHM 30700 - Biochemistry
- BCHM 30900 - Biochemistry Laboratory
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
- CHM 11500 - General Chemistry (satisfies Science #1 for core)
- CHM 11600 - General Chemistry (satisfies Science #2 for core)
- CHM 25500 - Organic Chemistry
- CHM 25501 - Organic Chemistry Laboratory
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II
- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Science Selective - Credit hours: 12.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)

- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (8-9 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs
- ANSC 10200 - Introduction To Animal Agriculture
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11500 - General Chemistry
- MA 16010 - Applied Calculus I

15 Credits

Spring 1st Year

- ANSC 18100 - Orientation To Animal Sciences
- BIOL 11100 - Fundamentals Of Biology II
- CHM 11600 - General Chemistry
- MA 16020 - Applied Calculus II

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

15-16 Credits

Fall 2nd Year

- ANSC 22100 - Principles Of Animal Nutrition ♦
- CHM 25500 - Organic Chemistry
- CHM 25501 - Organic Chemistry Laboratory

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Animal Sciences Selective - Credit Hours: 2.00
- Economics Selective - Credit Hours: 3.00

15 Credits

Spring 2nd Year

- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- ANSC 23000 - Physiology Of Domestic Animals
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory
- UCC Humanities Selective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- BCHM 30700 - Biochemistry
- BCHM 30900 - Biochemistry Laboratory
- STAT 30100 - Elementary Statistical Methods
- Animal Physiology Selective - Credit Hours: 3.00
- Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- Animal Genetics Selective - Credit Hours: 4.00
- Animal Nutrition Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

15 Credits

Fall 4th Year

- ANSC 48100 - Contemporary Issues in Animal Sciences
- Animal Production/Management Selective - Credit Hours: 3.00
- Animal Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

15 Credits

Spring 4th Year

- Animal Products Selective - Credit Hours: 3.00
- Science Selectives - Credit Hours: 6.00
- Electives - Credit Hours: 4.00 - 5.00

13-14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Minimum 2.0 GPA required in Animal Science courses

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Animal Sciences: Pre-Veterinary Medicine Concentration, BS

About the Program

The Department of Animal Sciences offers this specialization that is intended for students seeking careers in research or technical services related to animal nutrition, growth and development, animal genetics, reproduction, animal well-being, and management. Those in this specialization should have a strong interest in and curiosity in discovery and have enjoyed their high school biology, chemistry, mathematics, and physics courses. Students who aspire to careers in research and teaching in colleges and universities or in agribusinesses should enroll in this option. It can also be used as an excellent preparation for professional careers such as human medical doctors, veterinarians, dentists, and employment in the nutrition, genomics, and pharmaceutical industries. Graduates continuing for the M.S. or Ph.D. degrees in animal sciences qualify for numerous research, teaching, or extension positions in industry, government, universities, and colleges.

Animal Sciences (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (116-117 credits)

Required Major Courses (12 credits)

- ANSC 10200 - Introduction To Animal Agriculture (UCC STS Selective)
- ANSC 18100 - Orientation To Animal Sciences
- ANSC 22100 - Principles Of Animal Nutrition ♦
- ANSC 23000 - Physiology Of Domestic Animals
- ANSC 48100 - Contemporary Issues in Animal Sciences

ANSC Restricted Selectives (21 credits, 18 credits must be 30000 or higher)

(see ANSC Undergraduate Student Handbook)

- Animal Genetics Selective - Credit Hours: 4.00
- Animal Nutrition Selective - Credit Hours: 3.00
- Animal Physiology Selective - Credit Hours: 3.00
- Animal Production/Management selective - Credit Hours: 3.00
- Animal Products Selective - Credit Hours: 3.00
- Animal Sciences Selectives - Credit Hours: 5.00

Other Departmental /Program Course Requirements (83-84 credits)

(see ANSC Undergraduate Student Handbook)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs
- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory

- BCHM 30700 - Biochemistry
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
- BIOL 22100 - Introduction To Microbiology
- BIOL 23100 - Biology III: Cell Structure And Function
- BIOL 23200 - Laboratory In Biology III: Cell Structure And Function
- CHM 11500 - General Chemistry (satisfies Science #1 for core)
- CHM 11600 - General Chemistry (satisfies Science #2 for core)
- CHM 25500 - Organic Chemistry
- CHM 25501 - Organic Chemistry Laboratory
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II

- PHYS 22000 - General Physics
or
- PHYS 23300 - Physics For Life Sciences I

- PHYS 22100 - General Physics
or
- PHYS 23400 - Physics For Life Sciences II

- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- VM 10200 - Careers In Veterinary Medicine
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (3 - 4 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click here.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs
- ANSC 10200 - Introduction To Animal Agriculture
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11500 - General Chemistry
- MA 16010 - Applied Calculus I

15 Credits

Spring 1st Year

- ANSC 18100 - Orientation To Animal Sciences
- BIOL 11100 - Fundamentals Of Biology II
- CHM 11600 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- MA 16020 - Applied Calculus II
- VM 10200 - Careers In Veterinary Medicine

16 Credits

Fall 2nd Year

- ANSC 22100 - Principles Of Animal Nutrition ♦
- BIOL 23100 - Biology III: Cell Structure And Function
- BIOL 23200 - Laboratory In Biology III: Cell Structure And Function
- CHM 25500 - Organic Chemistry
- CHM 25501 - Organic Chemistry Laboratory

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

15-16 Credits

Spring 2nd Year

- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- ANSC 23000 - Physiology Of Domestic Animals
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory
- Animal Sciences Selective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- BCHM 30700 - Biochemistry
- PHYS 22000 - General Physics
or
- PHYS 23300 - Physics For Life Sciences I
- STAT 30100 - Elementary Statistical Methods
- Animal Physiology Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- PHYS 22100 - General Physics
or
- PHYS 23400 - Physics For Life Sciences II
- BIOL 22100 - Introduction To Microbiology
- Humanities or Social Science Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00

14 Credits

Fall 4th Year

- ANSC 48100 - Contemporary Issues in Animal Sciences
- Animal Genetics Selective - Credit Hours: 4.00
- Animal Production/Management Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00 - 4.00

14-15 Credits

Spring 4th Year

- Animal Nutrition Selective - Credit Hours: 3.00
- Animal Products Selective - Credit Hours: 3.00
- Animal Sciences Selective - Credit Hours: 2.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

2.0 GPA required in Animal Science courses

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Animal Sciences: Production Concentration, BS

About the Program

Opportunities associated with this Department of Animal Sciences option include the leadership and management of any enterprise that deals with the daily production and care of animals. This could include food animal species of beef or dairy cattle, chickens, ducks, fish, sheep, swine, or turkeys or many companion animal species including cats, dogs, horses, and many exotic or zoo animals. This option is the best balance of science, business, and the enterprise management subjects designed to prepare

someone to manage live animals. Enterprises might be owned by the graduate's family, the graduate, or any agribusiness company. Graduates of this option often serve as technical support staff for input companies, as field or services representatives in various commodity organizations, livestock sale companies, or procurement officers for meat processing companies. You may be well suited for an animal production management career if you enjoy working with and supervising people, have good oral communication and problem-solving skills as well as competencies working with animals directly. Experience with the raising and managing of animals is essential since you will be expected to interact and relate to managers, veterinarians, business representatives, and owners of animal enterprises.

Animal Sciences (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (107-108 credits)

Required Major Courses (12 credits)

- ANSC 10200 - Introduction To Animal Agriculture (UCC STS Selective)
- ANSC 18100 - Orientation To Animal Sciences
- ANSC 22100 - Principles Of Animal Nutrition ♦
- ANSC 23000 - Physiology Of Domestic Animals
- ANSC 48100 - Contemporary Issues in Animal Sciences

ANSC Restricted Selectives (21 credits, 18 credits must be from 30000 or higher)

(see ANSC Undergraduate Student Handbook)

- Animal Genetics Selective - Credit Hours: 4.00
- Animal Nutrition Selective - Credit Hours: 3.00
- Animal Physiology Selective - Credit Hours: 3.00
- Animal Production/Management selective - Credit Hours: 3.00
- Animal Products Selective - Credit Hours: 3.00
- Animal Sciences Selectives - Credit Hours: 5.00

Other Departmental /Program Course Requirements (74-75 credits)

(see ANSC Undergraduate Student Handbook)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs
- AGRY 32000 - Genetics
- BCHM 30700 - Biochemistry
- BIOL 11000 - Fundamentals Of Biology I

- BIOL 11100 - Fundamentals Of Biology II
- BIOL 22100 - Introduction To Microbiology
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- STAT 30100 - Elementary Statistical Methods
- Financial Management Selective - Credit Hours: 3.00
- Enterprise Management Selective - Credit Hours: 3.00
- Enterprise Management Selective - Credit Hours: 3.00
- Production/Management Selective (Non-ANSC) - Credit Hours: 3.00
- Production/Management Selective (Non-ANSC) - Credit Hours: 3.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (12 - 13 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning

- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click here.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs
- ANSC 10200 - Introduction To Animal Agriculture
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

14-15 Credits

Spring 1st Year

- ANSC 18100 - Orientation To Animal Sciences
- BIOL 11100 - Fundamentals Of Biology II
- CHM 11200 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication

- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- MA 16010 - Applied Calculus I
- Elective - Credit Hours: 2.00

16 Credits

Fall 2nd Year

- ANSC 22100 - Principles Of Animal Nutrition ♦
- CHM 25700 - Organic Chemistry
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGRY 32000 - Genetics
- ANSC 23000 - Physiology Of Domestic Animals
- BCHM 30700 - Biochemistry
- Animal Sciences Selective - Credit Hours: 3.00
- Financial Management Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- BIOL 22100 - Introduction To Microbiology
- STAT 30100 - Elementary Statistical Methods
- Animal Nutrition Selective - Credit Hours: 3.00
- Animal Physiology Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- Animal Genetics Selective - Credit Hours: 4.00
- Animal Products Selective - Credit Hours: 3.00
- Enterprise Management Selective - Credit Hours: 3.00
- Production/Management Selective (Non-ANSC) - Credit Hours: 3.00

13 Credits

Fall 4th Year

- ANSC 48100 - Contemporary Issues in Animal Sciences
- Animal Production/Management Selective - Credit Hours: 3.00
- Animal Sciences Selective - Credit Hours: 2.00
- Enterprise Management Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year

- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Production/Management Selective (Non-ANSC) - Credit Hours: 3.00
- Electives - Credit Hours: 7.00 - 8.00

13-14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Minimum 2.0 GPA required in Animal Science courses

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Animal Sciences: Products Concentration, BS

About the Program

This Department of Animal Sciences option is meant to prepare students who are interested in the live animal production of quality animal products combined with the ever-growing further processing industry of safe, healthful food. Opportunities include product-development managers; meat scientists; live-animal procurement managers; and sales positions in milk, egg, or meat processing industries. Many graduates become graders and inspectors at the farm or manufacturing level for milk, meat and eggs; commercial and seedstock animal production evaluators and breeders; or university or industry researchers and product developers. Graduates continuing for the M.S. or Ph.D. degree in growth and development, food science, agricultural economics, or muscle biology qualify for numerous research, teaching, or extension positions in industry, government, universities, and colleges. You should enjoy the challenge of applying basic information to the solution of practical problems as well as the challenges of working in the consumer-driven food industries.

Animal Sciences (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (99-101 credits)

Required Major Courses (12 credits)

- ANSC 10200 - Introduction To Animal Agriculture (UCC STS Selective)
- ANSC 18100 - Orientation To Animal Sciences
- ANSC 22100 - Principles Of Animal Nutrition ♦
- ANSC 23000 - Physiology Of Domestic Animals

- ANSC 48100 - Contemporary Issues in Animal Sciences

ANSC Restricted Selectives (21 credits, 18 credits must be 30000 or higher)

(see ANSC Undergraduate Student Handbook)

- Animal Genetics Selective - Credit Hours: 4.00
- Animal Nutrition Selective - Credit Hours: 3.00
- Animal Physiology Selective - Credit Hours: 3.00
- Animal Production/Management selective - Credit Hours: 3.00
- Animal Products Selective - Credit Hours: 3.00
- Animal Sciences Selectives - Credit Hours: 5.00

Other Departmental /Program Course Requirements (66-68 credits)

(see ANSC Undergraduate Student Handbook)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs
- AGRY 32000 - Genetics
- BCHM 30700 - Biochemistry
- BCHM 30900 - Biochemistry Laboratory
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
- BIOL 22100 - Introduction To Microbiology
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- STAT 30100 - Elementary Statistical Methods
- Business Management Selective - Credit Hours: 3.00
- Food Science Selective - Credit Hours: 3.00 - 4.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation

- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (19 - 21 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click here.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11400 - Introduction to Animal Sciences Academic Programs

- ANSC 10200 - Introduction To Animal Agriculture
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

14-15 Credits

Spring 1st Year

- ANSC 18100 - Orientation To Animal Sciences
- BIOL 11100 - Fundamentals Of Biology II
- CHM 11200 - General Chemistry
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- MA 16010 - Applied Calculus I
- Elective - Credit Hours: 2.00

16 Credits

Fall 2nd Year

- ANSC 22100 - Principles Of Animal Nutrition ♦
- CHM 25700 - Organic Chemistry
- Business Management Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGRY 32000 - Genetics
- ANSC 23000 - Physiology Of Domestic Animals
- BCHM 30700 - Biochemistry
- BCHM 30900 - Biochemistry Laboratory
- Animal Sciences Selective - Credit Hours: 3.00

14 Credits

Fall 3rd Year

- BIOL 22100 - Introduction To Microbiology
- STAT 30100 - Elementary Statistical Methods
- Animal Nutrition Selective - Credit Hours: 3.00
- Animal Products Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- Animal Genetics Selective - Credit Hours: 4.00
- Animal Physiology Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Electives - Credit Hours: 5.00

15 Credits

Fall 4th Year

- ANSC 48100 - Contemporary Issues in Animal Sciences
- Animal Production/Management Selective - Credit Hours: 3.00
- Food Science Selective - Credit Hours: 3.00 - 4.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Electives - Credit Hours: 4.00

14-15 Credits

Spring 4th Year

- Animal Sciences Selective - Credit Hours: 2.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Electives - Credit Hours: 8.00 - 10.00

13-15 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Minimum 2.0 GPA in ANSC courses required to earn degree

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

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Minor

Animal Science Minor

18 Credits Required

Requirements for the Minor

Nutrition

- ANSC 22100 - Principles Of Animal Nutrition

Physiology

Please choose 1 from the following:

- ANSC 23000 - Physiology Of Domestic Animals
- BIOL 20300 - Human Anatomy And Physiology
- BIOL 20400 - Human Anatomy And Physiology

Genetics

Please choose 1 from the following:

- ANSC 31100 - Animal Breeding
- ANSC 51100 - Population Genetics
- ANSC 51400 - Animal Biotechnology
- BIOL 41500 - Introduction To Molecular Biology

Products

Please choose 1 from the following:

- ANSC 30100 - Animal Growth, Development, And Evaluation
- ANSC 35100 - Meat Science

Notes

Departmental permission is not required to enroll in this minor.

The remainder of the eighteen credits may be completed from other courses listed above, or from Animal Sciences (ANSC) courses that are numbered 30100 or higher. Not more than four total credits from ANSC 37000, ANSC 37100, ANSC 37200, ANSC 47000, ANSC 47100, and ANSC 47200 may be used. Only one of the physiology courses listed above may be used to satisfy the minor.

Students must achieve a minimum 2.00 grade point average in graded ANSC courses to meet minimum requirements for the Animal Sciences academic minor.

Disclaimer

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The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Department of Biochemistry

Overview

The Department of Biochemistry is a vibrant research community with widespread, multidisciplinary collaborations. We offer both undergraduate and graduate programs with emphasis on research excellence in broad areas of science. The field of biochemistry has historically focused on molecular dissection of biological molecules and cellular pathways. Our current faculty build upon this classical approach, using cutting-edge approaches ranging from genome-wide transcriptional analyses, state-of-the-art mass spectroscopy, and x-ray crystallography in a variety of model systems including bacteria, fungi, plants and fruit flies. These approaches allow our researchers to link real world problems such as energy production and human disease prevention to defects in basic molecular processes, tackling the most pressing issues in society.

Faculty

<https://ag.purdue.edu/biochem/department/Pages/OurFaculty.aspx>

Contact Information

Department of Biochemistry
Purdue University

Biochemistry Building
175 South University Street
West Lafayette, IN 47907-2063
Phone: 765-494-1600

Email: biochem-boilers@purdue.edu

Website: ag.purdue.edu/biochem

The Main office for the department is located in Room 120 of the BCHM Building.

Graduate Information

For Graduate Information please see [Biochemistry Graduate Program Information](#).

Baccalaureate

Biochemistry, BS

About the Program

Biochemistry, the chemistry of living things, addresses the basic materials and processes of life itself. Biochemists investigate the chemical nature of such fundamental processes as the regulation of gene expression, the hormonal control of cell proliferation and differentiation. Knowledge of the molecular underpinnings of biological materials allows us to understand life processes and solve basic biological problems.

Students in the Department of Biochemistry, historically situated in the College of Agriculture, enjoy close mentoring by faculty through smaller class sizes and academic advising. Another strength of our program is that we strongly promote hands-on research and critical thinking skills. All students in the department participate in undergraduate research supervised by a faculty member.

There is also an opportunity to complete a five-year dual degree with biological engineering following acceptance into the College of Engineering.

How to apply to Biochemistry in the College of Agriculture

Biochemistry Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (113-114 credits)

Required Major Courses (25 credits)

- BCHM 10000 - Introduction To Biochemistry
- BCHM 22100 - Analytical Biochemistry
- BCHM 29000 - Experimental Design Seminar
- BCHM 32200 - Analytical Biochemistry II
- BCHM 36100 - Molecules
- BCHM 39000 - Professional Development Seminar
- BCHM 46200 - Metabolism
- BCHM 46300 - Macromolecular Machines
- BCHM 46500 - Biochemistry Of Life Processes
- BCHM 49000 - Undergraduate Seminar
- BCHM 49800 - Research In Biochemistry

Other Departmental /Program Course Requirements (89-93 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11500 - Introduction To Biochemistry Academic Programs

- AGRY 32000 - Genetics
or
- BIOL 24100 - Biology IV: Genetics And Molecular Biology

- AGRY 32100 - Genetics Laboratory
or
- BIOL 24200 - Laboratory In Biology IV: Genetics And Molecular Biology

- BIOL 11000 - Fundamentals Of Biology I
or
- BIOL 12100 - Biology I: Diversity, Ecology, And Behavior

- BIOL 11100 - Fundamentals Of Biology II
or
- BIOL 13100 - Biology II: Development, Structure, And Function Of Organisms

- BIOL 23100 - Biology III: Cell Structure And Function
- BIOL 23200 - Laboratory In Biology III: Cell Structure And Function
- CHM 11500 - General Chemistry (satisfies Science #1 for Core)
- CHM 11600 - General Chemistry (satisfies Science #2 for core)
- CHM 25500 - Organic Chemistry ♦
- CHM 25501 - Organic Chemistry Laboratory
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory
- CHM 37200 - Physical Chemistry
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II
- PHYS 22000 - General Physics
- PHYS 22100 - General Physics
- STAT 30100 - Elementary Statistical Methods
- Science Selective - Credit Hours: 5.00 - 9.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (6 - 7 credits)

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, [click here](#).

Additional Degree Requirements

For supplemental information [click here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11500 - Introduction To Biochemistry Academic Programs
- BCHM 10000 - Introduction To Biochemistry
- BIOL 11000 - Fundamentals Of Biology I
or
- BIOL 12100 - Biology I: Diversity, Ecology, And Behavior
- CHM 11500 - General Chemistry
- MA 16010 - Applied Calculus I
- Humanities or Social Science Selective - Credit Hours: 3.00

17 Credits

Spring 1st Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BIOL 13100 - Biology II: Development, Structure, And Function Of Organisms
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- CHM 11600 - General Chemistry
- MA 16020 - Applied Calculus II
- Elective - Credit Hours: 2.00

16-17 Credits

Fall 2nd Year

- BCHM 22100 - Analytical Biochemistry
- BIOL 23100 - Biology III: Cell Structure And Function
- BIOL 23200 - Laboratory In Biology III: Cell Structure And Function

- CHM 25500 - Organic Chemistry ♦
- CHM 25501 - Organic Chemistry Laboratory
- STAT 30100 - Elementary Statistical Methods

15 Credits

Spring 2nd Year

- AGRY 32000 - Genetics
or
- BIOL 24100 - Biology IV: Genetics And Molecular Biology

- AGRY 32100 - Genetics Laboratory
or
- BIOL 24200 - Laboratory In Biology IV: Genetics And Molecular Biology

- BCHM 29000 - Experimental Design Seminar
- BCHM 36100 - Molecules
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

16 Credits

Fall 3rd Year

- BCHM 32200 - Analytical Biochemistry II
- BCHM 39000 - Professional Development Seminar
- BCHM 46200 - Metabolism
- BCHM 49800 - Research In Biochemistry
- PHYS 22000 - General Physics
- UCC Humanities Selective - Credit Hours: 3.00

14 Credits

Spring 3rd Year

- BCHM 49800 - Research In Biochemistry
- PHYS 22100 - General Physics
- Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 4.00

15 Credits

Fall 4th Year

- BCHM 46300 - Macromolecular Machines
- BCHM 49800 - Research In Biochemistry
- Economics Selective - Credit Hours: 3.00
- Science Selective - Credit Hours: 2.00 - 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

16 Credits

Spring 4th Year

- BCHM 46500 - Biochemistry Of Life Processes
- BCHM 49000 - Undergraduate Seminar
- CHM 37200 - Physical Chemistry
- Science Selective - Credit Hours: 0.00 - 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Elective - Credit Hours: 0.00 - 1.00

11 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

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Biochemistry: Pre-Med Concentration, BS

About the Program

Biochemistry, the chemistry of living things, addresses the basic materials and processes of life itself. Biochemists investigate the chemical nature of such fundamental processes as the regulation of gene expression, the hormonal control of cell proliferation and differentiation. Knowledge of the molecular underpinnings of biological materials allows us to understand life processes and solve basic biological problems.

Students in the Department of Biochemistry, historically situated in the College of Agriculture, enjoy close mentoring by faculty through smaller class sizes and academic advising. Another strength of our program is that we strongly promote hands-on research and critical thinking skills. All students in the department participate in undergraduate research supervised by a faculty member.

There is also an opportunity to complete a five-year dual degree with biological engineering following acceptance into the College of Engineering.

How to apply to Biochemistry in the College of Agriculture

Biochemistry Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (113-114 credits)

Required Major Courses (25 credits)

- BCHM 10000 - Introduction To Biochemistry
- BCHM 22100 - Analytical Biochemistry
- BCHM 29000 - Experimental Design Seminar
- BCHM 32200 - Analytical Biochemistry II
- BCHM 36100 - Molecules
- BCHM 39000 - Professional Development Seminar
- BCHM 46200 - Metabolism
- BCHM 46300 - Macromolecular Machines
- BCHM 46500 - Biochemistry Of Life Processes
- BCHM 49000 - Undergraduate Seminar
- BCHM 49800 - Research In Biochemistry

Other Departmental /Program Course Requirements (89-93 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11500 - Introduction To Biochemistry Academic Programs

- AGRY 32000 - Genetics
or
- BIOL 24100 - Biology IV: Genetics And Molecular Biology

- AGRY 32100 - Genetics Laboratory
or
- BIOL 24200 - Laboratory In Biology IV: Genetics And Molecular Biology

- BIOL 11000 - Fundamentals Of Biology I
or
- BIOL 12100 - Biology I: Diversity, Ecology, And Behavior
and
- BIOL 13500 - First year Biology Laboratory

- BIOL 11100 - Fundamentals Of Biology II
or
- BIOL 13100 - Biology II: Development, Structure, And Function Of Organisms

- BIOL 23100 - Biology III: Cell Structure And Function

- BIOL 23200 - Laboratory In Biology III: Cell Structure And Function
- BIOL 30100 - Human Design: Anatomy And Physiology
or
- BIOL 20300 - Human Anatomy And Physiology
- BIOL 30200 - Human Design: Anatomy And Physiology
or
- BIOL 20400 - Human Anatomy And Physiology
- BIOL 39600 - Premedical Planning Seminar
- CHM 11500 - General Chemistry (satisfies Science #1 for Core)
- CHM 11600 - General Chemistry (satisfies Science #2 for core)
- CHM 25500 - Organic Chemistry ♦
- CHM 25501 - Organic Chemistry Laboratory
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory
- CHM 37200 - Physical Chemistry
- MA 16010 - Applied Calculus I
- MA 16020 - Applied Calculus II
- PHYS 22000 - General Physics
- PHYS 22100 - General Physics
- PSY 12000 - Elementary Psychology
- SOC 10000 - Introductory Sociology
- STAT 30100 - Elementary Statistical Methods
- Science Selective - Credit Hours: 0.00 - 1.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (6 - 7 credits)

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11500 - Introduction To Biochemistry Academic Programs
- BCHM 10000 - Introduction To Biochemistry

- BIOL 11000 - Fundamentals Of Biology I
or
- BIOL 12100 - Biology I: Diversity, Ecology, And Behavior
and
- BIOL 13500 - First year Biology Laboratory

- CHM 11500 - General Chemistry

- MA 16010 - Applied Calculus I

14 Credits

Spring 1st Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BIOL 13100 - Biology II: Development, Structure, And Function Of Organisms

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- CHM 11600 - General Chemistry
- MA 16020 - Applied Calculus II
- Humanities or Social Science Selective - Credit Hours: 3.00

17-18 Credits

Fall 2nd Year

- BCHM 22100 - Analytical Biochemistry
- BIOL 23100 - Biology III: Cell Structure And Function
- BIOL 23200 - Laboratory In Biology III: Cell Structure And Function
- CHM 25500 - Organic Chemistry ♦
- CHM 25501 - Organic Chemistry Laboratory
- STAT 30100 - Elementary Statistical Methods

15 Credits

Spring 2nd Year

- AGRY 32000 - Genetics
or
- BIOL 24100 - Biology IV: Genetics And Molecular Biology

- AGRY 32100 - Genetics Laboratory
or
- BIOL 24200 - Laboratory In Biology IV: Genetics And Molecular Biology

- BCHM 29000 - Experimental Design Seminar
- BCHM 36100 - Molecules
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

16 Credits

Fall 3rd Year

- BCHM 32200 - Analytical Biochemistry II
- BCHM 39000 - Professional Development Seminar
- BCHM 46200 - Metabolism
- BCHM 49800 - Research In Biochemistry
- PHYS 22000 - General Physics
- SOC 10000 - Introductory Sociology

14 Credits

Spring 3rd Year

- BCHM 49800 - Research In Biochemistry
- BIOL 39600 - Premedical Planning Seminar
- PHYS 22100 - General Physics
- PSY 12000 - Elementary Psychology
- Science Selective - Credit Hour: 0.00 - 1.00
- UCC Humanities Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00 - 4.00

15 Credits

Fall 4th Year

- BCHM 46300 - Macromolecular Machines
- BCHM 49800 - Research In Biochemistry

- BIOL 30100 - Human Design: Anatomy And Physiology
or
- BIOL 20300 - Human Anatomy And Physiology
- Economics Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

13 Credits

Spring 4th Year

- BCHM 46500 - Biochemistry Of Life Processes
- BCHM 49000 - Undergraduate Seminar
- BIOL 30200 - Human Design: Anatomy And Physiology
or
- BIOL 20400 - Human Anatomy And Physiology
- CHM 37200 - Physical Chemistry
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Biochemistry: Pre-Vet Concentration, BS

About the Program

Biochemistry, the chemistry of living things, addresses the basic materials and processes of life itself. Biochemists investigate the chemical nature of such fundamental processes as the regulation of gene expression, the hormonal control of cell proliferation and differentiation. Knowledge of the molecular underpinnings of biological materials allows us to understand life processes and solve basic biological problems.

Students in the Department of Biochemistry, historically situated in the College of Agriculture, enjoy close mentoring by faculty through smaller class sizes and academic advising. Another strength of our program is that we strongly promote hands-on research and critical thinking skills. All students in the department participate in undergraduate research supervised by a faculty member.

There is also an opportunity to complete a five-year dual degree with biological engineering following acceptance into the College of Engineering.

[How to apply to Biochemistry in the College of Agriculture](#)

[Biochemistry Website](#)

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (114-115 credits)

Required Major Courses (25 credits)

- BCHM 10000 - Introduction To Biochemistry
- BCHM 22100 - Analytical Biochemistry
- BCHM 29000 - Experimental Design Seminar
- BCHM 32200 - Analytical Biochemistry II
- BCHM 36100 - Molecules
- BCHM 39000 - Professional Development Seminar

- BCHM 46200 - Metabolism
- BCHM 46300 - Macromolecular Machines
- BCHM 46500 - Biochemistry Of Life Processes
- BCHM 49000 - Undergraduate Seminar
- BCHM 49800 - Research In Biochemistry

Other Departmental /Program Course Requirements (89-92 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11500 - Introduction To Biochemistry Academic Programs
- AGRY 32000 - Genetics
or
- BIOL 24100 - Biology IV: Genetics And Molecular Biology
- AGRY 32100 - Genetics Laboratory
or
- BIOL 24200 - Laboratory In Biology IV: Genetics And Molecular Biology
- ANSC 22100 - Principles Of Animal Nutrition
- BIOL 11000 - Fundamentals Of Biology I
or
- BIOL 12100 - Biology I: Diversity, Ecology, And Behavior
and
- BIOL 13500 - First year Biology Laboratory
- BIOL 11100 - Fundamentals Of Biology II
or
- BIOL 13100 - Biology II: Development, Structure, And Function Of Organisms
- BIOL 22100 - Introduction To Microbiology
- BIOL 23100 - Biology III: Cell Structure And Function
- BIOL 23200 - Laboratory In Biology III: Cell Structure And Function
- CHM 11500 - General Chemistry (satisfies Science #1 for Core)
- CHM 11600 - General Chemistry (satisfies Science #2 for core)
- CHM 25500 - Organic Chemistry ♦
- CHM 25501 - Organic Chemistry Laboratory
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory
- CHM 37200 - Physical Chemistry
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II
- PHYS 22000 - General Physics
- PHYS 22100 - General Physics
- STAT 30100 - Elementary Statistical Methods
- VM 10200 - Careers In Veterinary Medicine
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (5 - 6 credits)

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

Additional Degree Requirements

For supplemental information click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11500 - Introduction To Biochemistry Academic Programs
- BCHM 10000 - Introduction To Biochemistry

- BIOL 11000 - Fundamentals Of Biology I
or
- BIOL 12100 - Biology I: Diversity, Ecology, And Behavior
and
- BIOL 13500 - First year Biology Laboratory

- CHM 11500 - General Chemistry
- MA 16010 - Applied Calculus I

14 Credits

Spring 1st Year

- BIOL 11100 - Fundamentals Of Biology II
or
- BIOL 13100 - Biology II: Development, Structure, And Function Of Organisms

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- CHM 11600 - General Chemistry
- MA 16020 - Applied Calculus II
- VM 10200 - Careers In Veterinary Medicine
- Elective - Credit Hours: 2.00

17-18 Credits

Fall 2nd Year

- BCHM 22100 - Analytical Biochemistry

- BIOL 23100 - Biology III: Cell Structure And Function
- BIOL 23200 - Laboratory In Biology III: Cell Structure And Function
- CHM 25500 - Organic Chemistry ♦
- CHM 25501 - Organic Chemistry Laboratory
- STAT 30100 - Elementary Statistical Methods

15 Credits

Spring 2nd Year

- AGRY 32000 - Genetics
or
- BIOL 24100 - Biology IV: Genetics And Molecular Biology
- AGRY 32100 - Genetics Laboratory
or
- BIOL 24200 - Laboratory In Biology IV: Genetics And Molecular Biology
- BCHM 29000 - Experimental Design Seminar
- BCHM 36100 - Molecules
- CHM 25600 - Organic Chemistry
- CHM 25601 - Organic Chemistry Laboratory
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

16 Credits

Fall 3rd Year

- BCHM 32200 - Analytical Biochemistry II
- BCHM 39000 - Professional Development Seminar
- BCHM 46200 - Metabolism
- BCHM 49800 - Research In Biochemistry
- PHYS 22000 - General Physics
- UCC Humanities Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

16 Credits

Spring 3rd Year

- ANSC 22100 - Principles Of Animal Nutrition
- BCHM 49800 - Research In Biochemistry
- PHYS 22100 - General Physics
- Humanities or Social Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 1.00 - 2.00

15-16 Credits

Fall 4th Year

- BCHM 46300 - Macromolecular Machines
- BCHM 49800 - Research In Biochemistry
- BIOL 22100 - Introduction To Microbiology
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

14 Credits

Spring 4th Year

- BCHM 46500 - Biochemistry Of Life Processes
- BCHM 49000 - Undergraduate Seminar
- CHM 37200 - Physical Chemistry
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Minor

Biochemistry Minor

18-19 Credits Required

Requirements for the Minor

Required Courses (11-12 credits)

- BCHM 10000 - Introduction To Biochemistry or any Science, Technology, and Society (STS) course that is on the approved list.
- CHM 25600 - Organic Chemistry
or
- CHM 26200 - Organic Chemistry
or
- CHM 26605 - Organic Chemistry
or
- MCMP 20500 - Organic Chemistry II
- BCHM 36100 - Molecules *
or
- BCHM 56100 - General Biochemistry I
- BCHM 46200 - Metabolism *
or
- BCHM 56200 - General Biochemistry II

Selective Courses (7 credits)

- BCHM 22100 - Analytical Biochemistry
or
- CHM 32100 - Analytical Chemistry I

- BCHM 29000 - Experimental Design Seminar
- BCHM 32200 - Analytical Biochemistry II
- BCHM 46300 - Macromolecular Machines
- BCHM 46500 - Biochemistry Of Life Processes
- BCHM 49000 - Undergraduate Seminar
- BCHM 49800 - Research In Biochemistry
- Any other BCHM course at the 40000-level or higher

Notes

Departmental permission is not required for this minor.

Departmental permission is required to register for the following course: BCHM 29000, BCHM 46300, BCHM 46500, BCHM 49000 and BCHM 49800

Disclaimer

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Department of Botany and Plant Pathology

Overview

Welcome to the Department of Botany and Plant Pathology at Purdue University.

Research, teaching and extension have been an integral part of the Department of Botany and Plant Pathology since 1887.

Today's department includes 23 faculty who are advancing and teaching the disciplines of Plant Biology, Plant Pathology and Weed Science.

Explore our web site and see the opportunities our department offers. Learn how you can do more to protect the environment, apply genetic knowledge to improve plants, manage natural resources, control weeds, or diagnose plant diseases with a degree from Purdue's Botany and Plant Pathology department.

Faculty

<https://ag.purdue.edu/btny/Pages/directorygroup.aspx>

Contact Information

Department of Botany and Plant Pathology
Purdue University
Lilly Hall of Life Sciences
915 West State Street
West Lafayette, IN 47907-2054
Phone: 765.494.4614
E-mail: botany@purdue.edu

Website: <https://ag.purdue.edu/btny/Pages/default.aspx>

The main office for the department is located in Room 1-446 of LILY Hall.

Graduate Information

For Graduate Information please see Botany and Plant Pathology Graduate Program Information.

Baccalaureate

Plant Science, BS

About the Program

This major is designed for students who are interested in the biology of plants: how they grow, develop and evolve; the interactions of plants with other organisms and their role in the environment; how to manage plants that are grown for food, fiber and fuel. Our major allows students to develop expertise in these areas, prepare for a career in fields such as biotechnology and environmental management, and move forward to advanced graduate studies.

Plant Science Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses 102.5-103.5 credits)

Required Major Courses (25 credits)

- BTNY 11000 - Introduction To Plant Science
- BTNY 11100 - Principles Of Plant Biology

- BTNY 20700 - The Microbial World
- BTNY 30200 - Plant Ecology
- BTNY 30500 - Fundamentals Of Plant Classification
- BTNY 31600 - Plant Anatomy
- BTNY 49700 - Undergraduate Seminar
- BTNY 49800 - Research In Plant Science

Other Departmental /Program Course Requirements (77.5-78.5 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12500 - Introduction To Plant Science
- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- BCHM 30700 - Biochemistry
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry
- CHM 25701 - Organic Chemistry Laboratory
- HORT 30100 - Plant Physiology
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- PHYS 21400 - The Nature Of Physics
- STAT 30100 - Elementary Statistical Methods
- Focus Selective - Credit Hours: 18.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (16.5-17.5 credits)

Elective - Credit Hours: 16.50-17.50

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, [click here](#).

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12500 - Introduction To Plant Science
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- MA 16010 - Applied Calculus I

14.5-15.5 Credits

Spring 1st Year

- Elective - Credit Hours: 3.00
- BTNY 11100 - Principles Of Plant Biology
- BTNY 20700 - The Microbial World
- CHM 11200 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

16 Credits

Fall 2nd Year

- BTNY 30500 - Fundamentals Of Plant Classification ♦
- CHM 25700 - Organic Chemistry
- CHM 25701 - Organic Chemistry Laboratory
- Focus Selective - Credit Hours: 3.00
- UCC Humanities selective - Credit Hours: 3.00

14 Credits

Spring 2nd Year

- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- BTNY 30200 - Plant Ecology
- PHYS 21400 - The Nature Of Physics
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00
- Focus Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- BCHM 30700 - Biochemistry
- BTNY 31600 - Plant Anatomy
- Economics Selective - Credit Hours: 3.00
- Focus Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- HORT 30100 - Plant Physiology
- STAT 30100 - Elementary Statistical Methods
- Focus Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Fall 4th Year

- BTNY 49800 - Research In Plant Science
- Focus Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Electives - Credit Hours: 6.00

15 Credits

Spring 4th Year

- BTNY 49700 - Undergraduate Seminar
- Focus Selective (30000 level or higher) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Electives - Credit Hours: 4.50-5.50

11.5-12.5 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

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Minor

Plant Biology Minor

15 Credits Required

Requirements for the Minor

Required Courses (4 credits)

- BTNY 11000 - Introduction To Plant Science

Selective Courses (11 credits)

- BIOL 59500 - Special Assignments
- BTNY 21100 - Plants And The Environment
- BTNY 30100 - Introductory Plant Pathology
- BTNY 30200 - Plant Ecology
- BTNY 30400 - Introductory Weed Science

- BTNY 30500 - Fundamentals Of Plant Classification
- BTNY 31600 - Plant Anatomy
- BTNY 49800 - Research In Plant Science *
- BTNY 55000 - Biology Of Fungi
- BTNY 55300 - Plant Growth And Development
- BTNY 55500 - Aquatic Botany
- HORT 30100 - Plant Physiology

Notes

Departmental permission is not required to enroll in this minor.

*A maximum of three credits of BTNY 49800 or comparable research in the plant sciences may be applied to the minor.

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Plant Pathology Minor

19 Credits Required

Requirements for the Minor

Required Courses (13 credits)

- BTNY 11000 - Introduction To Plant Science
- BTNY 30100 - Introductory Plant Pathology
- BTNY 52500 - Intermediate Plant Pathology
- BTNY 53500 - Plant Disease Management

Selective Courses (6 credits)

- BTNY 44600 - Integrated Plant Health Management For Ornamental Plants
or
- ENTM 44600 - Integrated Plant Health Management For Ornamental Plants
- BTNY 49800 - Research In Plant Science *
- BTNY 51700 - Diseases Of Agronomic Crops
- BTNY 55000 - Biology Of Fungi

Notes

Departmental permission is not required to enroll in this minor.

* A maximum of three credits of BTNY 49800 or comparable research in the plant sciences may be applied to the minor.

Disclaimer

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Weed Science Minor

15 Credits Required

Requirements for the Minor:

Required Courses: (10 credits)

- BTNY 11000 - Introduction To Plant Science
- BTNY 30400 - Introductory Weed Science

- BTNY 50400 - Advanced Weed Science
or
- BTNY 50500 - Advanced Biology Of Weeds

Selectives: (5 credits)

- BTNY 20400 - Crop and Weed Identification
- BTNY 21100 - Plants And The Environment
- BTNY 30200 - Plant Ecology
- BTNY 30500 - Fundamentals Of Plant Classification
- BTNY 31600 - Plant Anatomy
- BTNY 35000 - Biotechnology In Agriculture
- BTNY 49800 - Research In Plant Science *
- BTNY 55500 - Aquatic Botany
- BTNY 55600 - Aquatic Plant Management
- BTNY 30100 - Introductory Plant Pathology

Notes

Department permission is not required to enroll in this minor.

*A maximum of three credits of BTNY 49800 or comparable research in the plant sciences may be applied to the minor.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Department of Entomology

Overview

Vision

To be a leader recognized worldwide for the solutions and discoveries generated through the application of science focused on arthropod and nematode biology.

Mission

To improve the quality of life for the state, nation and the world by advancing scientific knowledge through the development and application of arthropod/ nematode science.

Core Values

- Strive to be pace setting in everything we do
- Encourage the highest standards of ethics and citizenship
- Operate in an open, objective, and inclusive environment
- A community of scholars committed to excellence and teamwork
- Promote the synergism that comes from interdisciplinary interactions
- Value our human capital
- Embrace and promote increased diversity
- Adopt emerging information and other technologies as tools - not final solutions
- Resolve to actively disseminate our knowledge to people of all ages

Faculty

<https://ag.purdue.edu/entm/Pages/FacultyDirectory.aspx>

Contact Information

Department of Entomology
Purdue University
Smith Hall
901 West State Street

West Lafayette, IN 47907
Phone: (765) 494-4554
Email: bugs@purdue.edu

Website: <https://www.entm.purdue.edu/Undergrad/index.html>

The Main office for the department is located in Room 127 of SMTH Hall.

Graduate Information

For Graduate Information please see Entomology Graduate Program Information.

Baccalaureate

Insect Biology, BS

About the Program

Insect Biology Majors study insects and related organisms. The program emphasizes "hands on learning" with opportunities for faculty mentored undergraduate research, field and laboratory experiences and study abroad options. Insect biologists apply knowledge and modern technology to address grand challenges including protection of human and animal health, food, and property, and natural environments. Insect biologists work as scientists, educators, technicians, consultants, and specialists in urban, agricultural, and natural environments to prevent the spread of disease, feed the world, promote biodiversity, protect the environment, solve crimes, strengthen biosecurity, and teach science. Careers are as diverse as the insects we study.

Entomology Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (101-102 credits)

Required Major Courses (43 credits)

- ENTM 10100 - Insect Biology And Societal Grand Challenges
- ENTM 10200 - The Practice Of Science
- ENTM 20100 - Scientific And Technical Communication
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory

- ENTM 21000 - Introduction To Insect Behavior
- ENTM 25300 - Insect Physiology And Biochemistry
- ENTM 30100 - Experimentation And Analysis
- ENTM 31100 - Insect Ecology
- ENTM 31200 - Insect Chemical Ecology
- ENTM 33500 - Introduction To Insect Identification
- ENTM 35300 - Insecticides And Environment
- ENTM 39300 - Insect Biology Practicum
- ENTM 40100 - Addressing Grand Challenges Through Insect Biology
- ENTM 41000 - Applied Insect Biology
- ENTM 41001 - Insects Of Urban Landscapes
- ENTM 49310 - Insect Biology Capstone Experience
- ENTM 49390 - Insect Biology Capstone Forum

Other Departmental /Program Course Requirements (58-59 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11700 - Introduction To Entomology Academic Programs
- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
- BTNY 35000 - Biotechnology In Agriculture
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)

- PHYS 21400 - The Nature Of Physics
- STAT 30100 - Elementary Statistical Methods
- Calculus Selective (satisfies Quantitative Reasoning for core) - Credit Hours: 3.00 ♦
- Directed Science Selective - Credit Hours: 3.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC STS - Credit Hours:3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

Electives (18-19 credits)

- Electives - Credit Hours: 18.00 - 19.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11700 - Introduction To Entomology Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry
- ENTM 10100 - Insect Biology And Societal Grand Challenges
- ENTM 10200 - The Practice Of Science
- Calculus Selective - Credit Hours: 3.00 ♦

14 Credits

Spring 1st Year

- BIOL 11100 - Fundamentals Of Biology II
- CHM 11200 - General Chemistry
- COM 11400 - Fundamentals Of Speech Communication
- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- ENGL 10600 - First-Year Composition
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing
- ENTM 21000 - Introduction To Insect Behavior

16-17 Credits

Fall 2nd Year

- ENTM 20100 - Scientific And Technical Communication
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- PHYS 21400 - The Nature Of Physics
- STAT 30100 - Elementary Statistical Methods
- UCC Humanities Selective - Credit Hours: 3.00

15 Credits

Spring 2nd Year

- ENTM 25300 - Insect Physiology And Biochemistry
- ENTM 31100 - Insect Ecology
- Humanities or Social Science Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- ENTM 30100 - Experimentation And Analysis
- ENTM 33500 - Introduction To Insect Identification
- ENTM 39300 - Insect Biology Practicum
- UCC STS Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- BTNY 35000 - Biotechnology In Agriculture
- ENTM 31200 - Insect Chemical Ecology
- ENTM 35300 - Insecticides And Environment
- ENTM 39300 - Insect Biology Practicum
- Directed Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Fall 4th Year

- ENTM 41000 - Applied Insect Biology
- ENTM 41001 - Insects Of Urban Landscapes
- or
- ENTM 41002 - Insects Of Agricultural Crops
- ENTM 49310 - Insect Biology Capstone Experience
- Electives - Credit Hours: 9.00-10.00

14-15 Credits

Spring 4th Year

- ENTM 40100 - Addressing Grand Challenges Through Insect Biology
- ENTM 49310 - Insect Biology Capstone Experience
- ENTM 49390 - Insect Biology Capstone Forum
- Humanities or Social Science Selective - Credit Hours: 3.00

- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Electives - Credit Hours: 3.00

13 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Minor

Forensic Sciences Minor

20 Credits Required

Watch the Forensic Science Video

Requirements for the Minor

Required Courses (11 credits)

- ENTM 22810 - Forensic Investigation
- ENTM 22820 - Forensic Analysis
- ENTM 22830 - Forensic Testimony And Ethics

Selective Courses (9 credits)

- AGRY 25500 - Soil Science
or
- AGRY 27000 - Forest Soils

- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- AGRY 33500 - Weather And Climate
- AGRY 34900 - Soil Ecology
- AGRY 35500 - Soil Morphology And Geography
- AGRY 36500 - Soil Fertility
- AGRY 38500 - Environmental Soil Chemistry
- AGRY 56500 - Soils And Landscapes
- AGRY 58000 - Soil Microbiology
- ANTH 31000 - Mortuary Practices Across Cultures
- ANTH 33600 - Human Variation
- ANTH 42500 - Archaeological Method And Theory
- ANTH 42800 - Field Methods In Archaeology
- ANTH 43600 - Human Evolution
- ANTH 53400 - Human Osteology
- ANTH 53500 - Foundations Of Biological Anthropology
- ANTH 58900 - Archaeology And Materials Science
- ANTH 59200 - Selected Topics In Anthropology
- BCHM 22100 - Analytical Biochemistry

- BCHM 30700 - Biochemistry
or
- CHM 33300 - Principles Of Biochemistry
or
- CHM 33900 - Biochemistry: A Molecular Approach

- BCHM 30900 - Biochemistry Laboratory
or
- CHM 33901 - Biochemistry Laboratory

- BCHM 32200 - Analytical Biochemistry II

- BCHM 56100 - General Biochemistry I
or
- CHM 53300 - Introductory Biochemistry

- BCHM 56200 - General Biochemistry II

- BIOL 20300 - Human Anatomy And Physiology
or

- BIOL 30100 - Human Design: Anatomy And Physiology

- BIOL 20400 - Human Anatomy And Physiology
- or
- BIOL 30200 - Human Design: Anatomy And Physiology

- BIOL 22100 - Introduction To Microbiology
- BIOL 23100 - Biology III: Cell Structure And Function
- BIOL 23200 - Laboratory In Biology III: Cell Structure And Function
- BIOL 24100 - Biology IV: Genetics And Molecular Biology
- BIOL 24200 - Laboratory In Biology IV: Genetics And Molecular Biology
- BIOL 41500 - Introduction To Molecular Biology
- BIOL 43800 - General Microbiology
- BIOL 43900 - Laboratory In General Microbiology
- BIOL 44400 - Human Genetics
- BIOL 47800 - Introduction to Bioinformatics
- BIOL 49500 - Special Assignments
- BIOL 58000 - Evolution
- BIOL 53300 - Medical Microbiology
- CNIT 42000 - Basic Cyber Forensics
- CNIT 45500 - Network Security
- CNIT 45600 - Wireless Security And Management
- CNIT 51100 - Foundations In Homeland Security Studies
- CNIT 51200 - Managing Resources And Applications For Homeland Security
- CNIT 55700 - Advanced Research Topics In Cyber Forensics

- CHM 22400 - Introductory Quantitative Analysis
- or
- CHM 32100 - Analytical Chemistry I
- or
- CHM 32300 - Analytical Chemistry I Honors

- CHM 25500 - Organic Chemistry
- or
- CHM 25700 - Organic Chemistry
- or
- CHM 26505 - Organic Chemistry

- CHM 25501 - Organic Chemistry Laboratory
- or
- CHM 25701 - Organic Chemistry Laboratory
- or
- CHM 26500 - Organic Chemistry Laboratory
- or
- CHM 26700 - Organic Chemistry Laboratory Honors

- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- ENTM 21000 - Introduction To Insect Behavior
- ENTM 33500 - Introduction To Insect Identification
- ENTM 51000 - Insect Pest Management
- ENTM 52500 - Medical And Veterinary Entomology

- ENTM 52600 - Urban And Industrial Vertebrate Management
- ENTM 55100 - Insect Physiology And Biochemistry
- FNR 22500 - Dendrology
- FNR 24150 - Ecology And Systematics Of Fishes, Amphibians And Reptiles
- FNR 24250 - Laboratory In Ecology And Systematics Of Fishes, Amphibians And Reptiles
- FNR 25150 - Ecology And Systematics Of Mammals And Birds
- FNR 25250 - Laboratory In Ecology And Systematics Of Mammals And Birds
- FNR 30500 - Conservation Genetics
- FNR 34100 - Wildlife Habitat Management
- FNR 34800 - Wildlife Investigational Techniques
- HSCI 33300 - Introduction To Immunology
- HSCI 56000 - Toxicology
- MGMT 53200 - Forensic Accounting And Fraud Examination

- PHYS 17200 - Modern Mechanics
or
- PHYS 21800 - General Physics
or
- PHYS 22000 - General Physics

- PHYS 21900 - General Physics II
or
- PHYS 22100 - General Physics

- POL 42500 - Environmental Law And Politics
- POL 42800 - The Politics Of Regulation
- PSY 33500 - Stereotyping And Prejudice
- PSY 42800 - Drugs And Behavior
- PSY 44300 - Aggression And Violence
- PSY 35000 - Abnormal Psychology
- PSY 53500 - Psychology Of Death And Dying
- SOC 32400 - Criminology
- SOC 32700 - Crime, Deviance And Mass Media
- SOC 32800 - Criminal Justice
- SOC 35600 - Hate And Violence
- SOC 41900 - Sociology Of Law
- SOC 42600 - Social Deviance And Control
- SOC 45400 - Family Violence

Notes

Departmental permission is not required to enroll in this minor.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Insect Biology Minor

15 Credits Required

Requirements for the Minor

Required Courses (3 credits)

- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory

Selective Courses (12 credits)

- ENTM 10500 - Insects: Friend And Foe
- ENTM 21000 - Introduction To Insect Behavior
- ENTM 25300 - Insect Physiology And Biochemistry
- ENTM 31100 - Insect Ecology
- ENTM 31200 - Insect Chemical Ecology
- ENTM 32810 - Practical Molecular Biology
- ENTM 33500 - Introduction To Insect Identification
- ENTM 35100 - Bee Biology And Bee Keeping
- ENTM 35300 - Insecticides And Environment
- ENTM 41000 - Applied Insect Biology
- ENTM 41001 - Insects Of Urban Landscapes
- ENTM 41002 - Insects Of Agricultural Crops

- ENTM 44100 - Forest Entomology
or
- FNR 44100 - Forest Entomology

- ENTM 44300 - Arthropods And Diseases Of Turfgrass
or
- BTNY 44300 - Arthropods And Diseases Of Turfgrass

- ENTM 44600 - Integrated Plant Health Management For Ornamental Plants
or
- BTNY 44600 - Integrated Plant Health Management For Ornamental Plants

- ENTM 51000 - Insect Pest Management
- ENTM 52500 - Medical And Veterinary Entomology

Disclaimer

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Department of Food Science

Overview

The Department of Food Science at Purdue University is committed to impacting the world food system and quality of life by educating and training undergraduate and graduate students for careers in industry, government, and academia. Our mission is to expand and transfer knowledge for continuous improvement of the safety, quality, value, and security of the world's food supply through basic research and outreach programs. Our faculty, staff, and students are located on Purdue University's main campus in the **Philip E. Nelson Hall of Food Science, 745 Agriculture Mall Drive, West Lafayette, Indiana 47907**. This building provides excellent research laboratories, as well as specialized facilities such as the sensory evaluation laboratory, pilot scale-manufacturing plant, student product development and innovation laboratory, and enology library for us to engage with the food and beverage industry and government partners.

Faculty

<https://ag.purdue.edu/foodsci/Pages/directory.aspx>

Contact Information

Department of Food Science

Purdue University

Nelson Hall of Food Science
745 Agriculture Mall Drive
West Lafayette, IN 47907
Phone: (765) 494-2766

Email: foodsci@purdue.edu

Website: <http://ag.purdue.edu/foodsci>

The Main office for the department is located in Room 2211 of the NLSN Building.

Graduate Information

For Graduate Information please see Food Sciences Graduate Program Information.

Baccalaureate

Food Science, BS

About the Program

The field of Food Science applies science, such as microbiology and biochemistry, to discover ways to improve the taste, nutrition, and value of the food supply. A food scientist possesses the skills necessary to convert raw food products into safe, attractive foods and beverages. Graduates apply scientific knowledge and economic principles to food production, storage, distribution, product development, quality control, inspection, and sales, or they, pursue graduate studies in food processing, microbiology, or chemistry.

Food Science Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (107-108 credits)

Required Major Courses (34 credits)

- FS 16100 - Science Of Food
- FS 24500 - Food Packaging
- FS 29800 - Sophomore Seminar
- FS 34000 - Introduction To Food Law And Regulations
- FS 34100 - Food Processing I
- FS 34200 - Food Processing I Laboratory
- FS 36100 - Food Plant Sanitation
- FS 36200 - Food Microbiology
- FS 36300 - Food Microbiology Laboratory
- FS 43500 - Sensory Science
- FS 44200 - Food Processing II
- FS 44300 - Food Product Design (Capstone)
- FS 44400 - Statistical Process Control
- FS 44700 - Food Processing II Laboratory
- FS 45300 - Food Chemistry
- FS 45400 - Food Chemistry Laboratory
- FS 46700 - Food Analysis
- FS 46900 - Food Analysis Laboratory
- FS 48200 - Food Science Senior Seminar
- FS 53000 - Food Ingredient Technology

Other Departmental /Program Course Requirements (73-74 credits)

(See Advising Resources)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11800 - Introduction To Food Science Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 11100 - Fundamentals Of Biology II
- BIOL 22100 - Introduction To Microbiology ♦
- CHM 11500 - General Chemistry
- CHM 11600 - General Chemistry
- CHM 25700 - Organic Chemistry
- CHM 25701 - Organic Chemistry Laboratory
- BCHM 30700 - Biochemistry
- BCHM 30900 - Biochemistry Laboratory
- MA 16010 - Applied Calculus I
- MA 16020 - Applied Calculus II
- NUTR 31500 - Fundamentals Of Nutrition
- PHYS 22000 - General Physics ♦
- STAT 30100 - Elementary Statistical Methods
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Professional Communications Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

Electives (12 - 13 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication

- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11800 - Introduction To Food Science Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11500 - General Chemistry
- FS 16100 - Science Of Food
- MA 16010 - Applied Calculus I

15 Credits

Spring 1st Year

- BIOL 11100 - Fundamentals Of Biology II
- CHM 11600 - General Chemistry
- MA 16020 - Applied Calculus II
- Elective - Credit Hours: 1.00

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

15-16 Credits

Fall 2nd Year

- BIOL 22100 - Introduction To Microbiology ♦

- CHM 25700 - Organic Chemistry
- CHM 25701 - Organic Chemistry Laboratory
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- FS 29800 - Sophomore Seminar
- STAT 30100 - Elementary Statistical Methods

16 Credits

Spring 2nd Year

- BCHM 30700 - Biochemistry ♦
- BCHM 30900 - Biochemistry Laboratory
- FS 24500 - Food Packaging
- PHYS 22000 - General Physics ♦
- Economics Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

- FS 34100 - Food Processing I
- FS 34200 - Food Processing I Laboratory
- FS 36100 - Food Plant Sanitation
- FS 36200 - Food Microbiology
- FS 36300 - Food Microbiology Laboratory
- NUTR 31500 - Fundamentals Of Nutrition
- UCC Humanities Elective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

17 Credits

Spring 3rd Year

- FS 45300 - Food Chemistry
- FS 45400 - Food Chemistry Laboratory
- FS 46700 - Food Analysis

- FS 46900 - Food Analysis Laboratory
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- FS 44200 - Food Processing II
- FS 44400 - Statistical Process Control
- FS 44700 - Food Processing II Laboratory
- FS 48200 - Food Science Senior Seminar
- FS 53000 - Food Ingredient Technology
- Professional Communication Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective - Credit Hours: 3.00

12 Credits

Spring 4th Year

- FS 34000 - Introduction To Food Law And Regulations
- FS 43500 - Sensory Science
- FS 44300 - Food Product Design (Capstone)
- Humanities or Social Sciences Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective (30000+) - Credit Hours: 3.00
- Electives - Credit Hours: 3.00 - 4.00

14-15 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Minimum GPA of 2.50 in FS core classes and NUTR 31500 is required for graduation

Students must meet a minimum GPA ≥ 2.50 in math and science courses to enroll in upper division FS courses.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

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Minor

Food and Agribusiness Management Minor

18 Credits Required

Requirements for the Minor

Required Courses (9 credits)

- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness
or
- AGEC 20400 - Introduction To Resource Economics And Environmental Policy
- AGEC 33000 - Management Methods For Agricultural Business
- AGEC 31100 - Accounting For Farm Business Planning
or
- MGMT 20000 - Introductory Accounting
or
- MGMT 20010 - Business Accounting

Selective Courses (9 credits)*

- AGEC 22000 - Economics Of Agricultural Markets
- AGEC 32100 - Principles Of Commodity Marketing
- AGEC 32700 - Principles Of Food And Agribusiness Marketing
- AGEC 33100 - Principles Of Selling In Agricultural Business

- AGEC 33300 - Food Distribution - A Retailing Perspective
- AGEC 35200 - Quantitative Techniques For Firm Decision Making
- AGEC 42100 - Advanced Commodity Marketing
- AGEC 42400 - Financial Management Of Agricultural Business
- AGEC 42500 - Estate Planning And Property Transfer
- AGEC 42700 - Advanced Agribusiness Marketing
- AGEC 42900 - Agribusiness Marketing Workshop
- AGEC 43000 - Agricultural And Food Business Strategy
- AGEC 43100 - Advanced Agri-Sales And Marketing
- AGEC 45100 - Applied Econometrics

- AGEC 45500 - Agricultural Law
or
- MGMT 45500 - Legal Background For Business I

- AGEC 45600 - Federal Income Tax Law
- AGEC 49600 - Selected Topics In Agribusiness Management
- AGEC 50600 - Agricultural Marketing And Price Analysis
- AGEC 52400 - Agricultural Finance
- AGEC 52500 - Environmental Policy Analysis
- AGEC 52600 - International Food And Agribusiness Marketing Strategy
- AGEC 53000 - Strategic Agribusiness Management
- AGEC 53300 - Supply Chain Management For Food And Agribusiness
- CSR 20900 - Introduction To Retail Management
- CSR 28200 - Customer Relations Management
- CSR 30900 - Leadership Strategies
- CSR 31500 - Relationship Selling
- CSR 33100 - Consumer Behavior
- CSR 33200 - Cross-Cultural Marketing And International Retailing
- CSR 34200 - Personal Finance
- CSR 38600 - Risk Management
- CSR 40100 - Buying Of Merchandise
- CSR 40400 - Strategic Issues For Sales And Retailing
- CSR 40600 - E-Retailing
- CSR 41500 - Sales Force Management
- CSR 48100 - Ethics And Compliance In Financial Counseling And Planning
- CSR 48400 - Consumer Investment And Savings Decisions
- CSR 48500 - Case Studies In Financial Planning
- CSR 48600 - Retirement Planning And Employee Benefits
- HORT 43500 - Principles Of Marketing And Management For Horticultural Businesses
- MGMT 20000-59999
- OLS 20000-59999

Notes

Department permission is not required to enroll in this minor.

Any Management (MGMT) or Organizational Leadership and Supervision (OLS) course at the 20000 level or above may be used. Only one course from OLS 25200 and OLS 27400 may be used.

* At least six of the nine selective credits must be in Agricultural Economics (AGEC) courses.

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Food Science Minor

18 Credits Required

Requirements for the Minor

Required Courses (11 credits)

- FS 16100 - Science Of Food
- FS 34100 - Food Processing I
- FS 36200 - Food Microbiology
- FS 45300 - Food Chemistry

Selective Courses (7 credits)

- ANSC 35100 - Meat Science
- ANSC 35101 - Meat Science Laboratory
- NUTR 31500 - Fundamentals Of Nutrition
- FS 10000-59999* - All Food Sciences courses - Credit Hours: 3.00

Notes

Department permission is not required to enroll in this minor.

* Maximum of 3 credits of independent study (FS 29100 or FS 49100).

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Pet Food Processing Minor

21 Credits Required

Requirements for the Minor

Required Courses (21 credits)

- ANSC 10600 - Biology Companion Animal *
- ANSC 32400 - Applied Animal Nutrition
- ANSC 44600 - Companion Animal Management
- FS 16100 - Science Of Food
- FS 34100 - Food Processing I
- FS 34200 - Food Processing I Laboratory
- FS 36200 - Food Microbiology
- FS 44200 - Food Processing II
- FS 44700 - Food Processing II Laboratory

Notes

Department permission is not required to enroll in this minor.

* (3) ANSC 10200 (Introduction to Animal Agriculture) can be substituted for ANSC 10600, but ANSC 10600 is preferred for this minor.

Disclaimer

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Department of Forestry and Natural Resources

Overview

Welcome to the Department of Forestry and Natural Resources (FNR)! As one of the nation's elite programs in ecology and evolutionary biology, it is our mission to develop and disseminate knowledge associated with the protection, management, and sustainable use of terrestrial and aquatic ecosystems. FNR is training the next generation of professionals in the natural resource sciences, which includes fisheries and aquatic sciences, forestry, wildlife, and sustainable biomaterials: process and product design.

Faculty

<https://ag.purdue.edu/fnr/Pages/directory.aspx>

Contact Information

The Department of Forestry and Natural Resources

Purdue University

Pfendler Hall
715 West State Street
West Lafayette IN 47907-2061

Phone: 765-494-3591

Email: joinfnr@purdue.edu

Website: ag.purdue.edu/fnr

The Main office for the department is located in Room 125 in PFEN Hall.

Graduate Information

For Graduate Information please see Forestry and Natural Resources Graduate Program Information.

Baccalaureate

Fisheries and Aquatic Sciences, BS

About the Program

Prepare for a career in fisheries research and management, lake and stream management, aquaculture, and interdisciplinary studies of environmental problems. Studies emphasize understanding ecosystems function, natural and human disturbance, and ecosystem resilience. You are preparing for work in public organizations (state/federal fish and wildlife), not-for-profit organizations (Nature Conservancy), private consulting firms, or for graduate studies (MS, PhD, DVM). This degree meets the educational requirements for the American Fisheries Society's Professional Certification.

Fisheries and Aquatic Sciences Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (109-110 credits)

Required Major Courses (53 credits)

- FNR 20100 - Marine Biology
- FNR 21000 - Nat Res Info Mgmt

- FNR 22310 - Introduction To Environmental Policy
or
- POL 22300 - Introduction To Environmental Policy

- FNR 23000 - The World's Forests And Society
- FNR 24150 - Ecology And Systematics Of Fishes, Amphibians And Reptiles
- FNR 24250 - Laboratory In Ecology And Systematics Of Fishes, Amphibians And Reptiles
- FNR 25150 - Ecology And Systematics Of Mammals And Birds
- FNR 25250 - Laboratory In Ecology And Systematics Of Mammals And Birds
- FNR 30500 - Conservation Genetics
- FNR 35100 - Aquatic Sampling Techniques ♦
- FNR 37010 - Natural Resources Practicum
- FNR 37100 - Fisheries And Aquatic Sciences Practicum
- FNR 37500 - Human Dimensions of Natural Resource Management
- FNR 40800 - Natural Resources Planning
- FNR 45200 - Aquaculture

- FNR 45300 - Fish Physiology
or
- FNR 45500 - Fish Ecology

- FNR 45400 - Fisheries Science And Management
- FNR 47000 - Fundamentals Of Planning

- FNR 52600 - Aquatic Animal Health
or
- FNR 52700 - Ecotoxicology

Major Selectives (6 credits)

- FNR Physical science selective - Credit Hours: 3.00
- FNR Physical science selective - Credit Hours: 3.00

Other Departmental /Program Course Requirements (50-51 credits)

- AGE 20300 - Introductory Microeconomics For Food And Agribusiness
or
- AGE 20400 - Introduction To Resource Economics And Environmental Policy
or
- ECON 25100 - Microeconomics

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11900 - Introduction To Forestry And Natural Resources Academic Programs

- AGRY 25500 - Soil Science
or
- AGRY 27000 - Forest Soils

- BIOL 11000 - Fundamentals Of Biology I
- BIOL 28600 - Introduction To Ecology And Evolution
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II

- PHIL 11100 - Ethics
or
- PHIL 28000 - Ethics And Animals
or
- PHIL 29000 - Environmental Ethics

- STAT 30100 - Elementary Statistical Methods
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (10 - 11 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication

- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11900 - Introduction To Forestry And Natural Resources Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry
- MA 16010 - Applied Calculus I

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

14-15 Credits

Spring 1st Year

- BTNY 11000 - Introduction To Plant Science
- CHM 11200 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication

or

- COM 21700 - Science Writing And Presentation

or

- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- MA 16020 - Applied Calculus II

16 Credits

Fall 2nd Year

- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness

or

- AGECE 20400 - Introduction To Resource Economics And Environmental Policy

or

- ECON 25100 - Microeconomics

- FNR 20100 - Marine Biology

- FNR 24150 - Ecology And Systematics Of Fishes, Amphibians And Reptiles

- FNR 24250 - Laboratory In Ecology And Systematics Of Fishes, Amphibians And Reptiles

- STAT 30100 - Elementary Statistical Methods

- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGRY 25500 - Soil Science

or

- AGRY 27000 - Forest Soils

- BIOL 28600 - Introduction To Ecology And Evolution

- FNR 21000 - Nat Res Info Mgmt

- FNR 25150 - Ecology And Systematics Of Mammals And Birds

- FNR 25250 - Laboratory In Ecology And Systematics Of Mammals And Birds

- FNR 35100 - Aquatic Sampling Techniques ♦

15 Credits

Summer Session

- FNR 37010 - Natural Resources Practicum

- FNR 37100 - Fisheries And Aquatic Sciences Practicum

6 Credits

Fall 3rd Year

- FNR 22310 - Introduction To Environmental Policy
or
- POL 22300 - Introduction To Environmental Policy

- FNR 23000 - The World's Forests And Society
- FNR 45400 - Fisheries Science And Management
- Humanities or Social Science Selective - Credit Hours: 3.00

12 Credits

Spring 3rd Year

- FNR 30500 - Conservation Genetics
- FNR 37500 - Human Dimensions of Natural Resource Management

- FNR 45300 - Fish Physiology
or
- FNR 45500 - Fish Ecology

- Physical Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- FNR Physical Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00
- FNR 47000 - Fundamentals Of Planning

- FNR 52600 - Aquatic Animal Health
or
- FNR 52700 - Ecotoxicology

- PHIL 11100 - Ethics
or
- PHIL 28000 - Ethics And Animals
or
- PHIL 29000 - Environmental Ethics

12 Credits

Spring 4th Year

- FNR 40800 - Natural Resources Planning
- FNR 45200 - Aquaculture
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 4.00 - 5.00

13-14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Forestry, BSFOR

About the Program

Learn to apply biological, ecological, economic, and social knowledge as you develop and implement sustainable forest management plans. Studies emphasize understanding ecosystems function, natural and human disturbance, and ecosystem resilience. This prepares you for careers with public agencies such as state divisions of forestry, U.S. Forest Service or private industries and consulting firms. This program is accredited by the Society of American Foresters.

Forestry Website

Degree Requirements

124 Credits Required

Departmental/Program Major Courses (111-112 credits)

Required Major Courses (59 credits)

- FNR 21000 - Nat Res Info Mgmt

- FNR 22310 - Introduction To Environmental Policy
or
- POL 22300 - Introduction To Environmental Policy

- FNR 22500 - Dendrology ♦
- FNR 23000 - The World's Forests And Society

- FNR 24150 - Ecology And Systematics Of Fishes, Amphibians And Reptiles
or
- FNR 25150 - Ecology And Systematics Of Mammals And Birds

- FNR 24250 - Laboratory In Ecology And Systematics Of Fishes, Amphibians And Reptiles
or
- FNR 25250 - Laboratory In Ecology And Systematics Of Mammals And Birds

- FNR 30110 - Sustainable Forest Products Manufacturing

- FNR 30500 - Conservation Genetics
or
- FNR 31110 - Structure, Identification And Properties Of Woody Biomaterials
or
- FNR 35900 - Spatial Ecology And GIS

- FNR 33100 - Forest Ecosystems
- FNR 33900 - Principles Of Silviculture
- FNR 35300 - Natural Resources Measurement ♦
- FNR 35500 - Quantitative Methods For Resource Management
- FNR 35700 - Fundamental Remote Sensing
- FNR 37010 - Natural Resources Practicum
- FNR 37050 - Forest Habitats And Communities Practicum

- FNR 37200 - Forestry Practicum
- FNR 37500 - Human Dimensions of Natural Resource Management
- FNR 40700 - Forest Economics
- FNR 40910 - Forest Resources Management
- FNR 43400 - Tree Physiology
- FNR 47000 - Fundamentals Of Planning

Major Selectives (3 credits)

- Forest Health Selective - Credit Hours: 3.00

Other Departmental /Program Course Requirements (53-54 credits)

- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness
or
- AGEC 20400 - Introduction To Resource Economics And Environmental Policy
or
- ECON 25100 - Microeconomics
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11900 - Introduction To Forestry And Natural Resources Academic Programs
- AGRY 27000 - Forest Soils
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 28600 - Introduction To Ecology And Evolution
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II
- STAT 30100 - Elementary Statistical Methods
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00
- PHIL 11100 - Ethics
or
- PHIL 28000 - Ethics And Animals
or
- PHIL 29000 - Environmental Ethics
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or

- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

Electives (8-9 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11900 - Introduction To Forestry And Natural Resources Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry
- MA 16010 - Applied Calculus I

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

14-15 Credits

Spring 1st Year

- BTNY 11000 - Introduction To Plant Science
- CHM 11200 - General Chemistry
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- MA 16020 - Applied Calculus II

16 Credits

Fall 2nd Year

- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness
or
- AGECE 20400 - Introduction To Resource Economics And Environmental Policy
or
- ECON 25100 - Microeconomics
- FNR 22500 - Dendrology ♦
- FNR 23000 - The World's Forests And Society
- STAT 30100 - Elementary Statistical Methods
- FNR 24150 - Ecology And Systematics Of Fishes, Amphibians And Reptiles
or
- FNR 25150 - Ecology And Systematics Of Mammals And Birds

15 Credits

Spring 2nd Year

- AGRY 27000 - Forest Soils
- BIOL 28600 - Introduction To Ecology And Evolution
- FNR 21000 - Nat Res Info Mgmt
- FNR 35300 - Natural Resources Measurement ♦
- Written or Oral Communication Selective - Credit Hours: 3.00

- FNR 24250 - Laboratory In Ecology And Systematics Of Fishes, Amphibians And Reptiles
or
- FNR 25250 - Laboratory In Ecology And Systematics Of Mammals And Birds

15 Credits

Summer Session

- FNR 37010 - Natural Resources Practicum
- FNR 37050 - Forest Habitats And Communities Practicum
- FNR 37200 - Forestry Practicum

6 Credits

Fall 3rd Year

- FNR 22310 - Introduction To Environmental Policy
or
- POL 22300 - Introduction To Environmental Policy

- FNR 33100 - Forest Ecosystems
- FNR 35700 - Fundamental Remote Sensing
- FNR 43400 - Tree Physiology
- Forest Health Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- FNR 35500 - Quantitative Methods For Resource Management
- FNR 37500 - Human Dimensions of Natural Resource Management
- FNR 40700 - Forest Economics
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00
- FNR 33900 - Principles Of Silviculture
- FNR 47000 - Fundamentals Of Planning

- PHIL 11100 - Ethics
or
- PHIL 28000 - Ethics And Animals
or
- PHIL 29000 - Environmental Ethics

13 Credits

Spring 4th Year

- FNR 30500 - Conservation Genetics
or
- FNR 31110 - Structure, Identification And Properties Of Woody Biomaterials
or
- FNR 35900 - Spatial Ecology And GIS

- FNR 30110 - Sustainable Forest Products Manufacturing
- FNR 40910 - Forest Resources Management
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00 - 3.00

14-15 Credits

Note

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

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Sustainable Biomaterials - Process and Product Design, BS

About the Program

Students learn the basics of sustainability of biomaterials, product design, processing and conservation. Studies focus on sustainable materials resource evaluation, product strength design, lean manufacturing, end of life options, cradle to grave, cradle to cradle, zero impact theories, and use of life cycle assessment techniques. You will gain experience with complex natural resources utilization issues on a local and global scale. You are prepared for management positions in manufacturing industries, particularly the wood products manufacturing and the hardwood cabinet and furniture industries.

Sustainable Biomaterials - Process and Product Design Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (111-112 credits)

Required Major Courses (29 credits)

- FNR 22310 - Introduction To Environmental Policy
or
- POL 22300 - Introduction To Environmental Policy
- FNR 23000 - The World's Forests And Society
- FNR 30110 - Sustainable Forest Products Manufacturing ♦
- FNR 30200 - Global Sustainability Issues
- FNR 31110 - Structure, Identification And Properties Of Woody Biomaterials
- FNR 41800 - Properties Of Wood Related To Manufacturing
- FNR 41910 - Furniture Product Development And Strength Design

- FNR 42500 - Secondary Wood Products Manufacturing
- FNR 48410 - Sustainable Furniture Design For CNC Manufacturing

Other Departmental /Program Course Requirements (82-83 credits)

- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness
or
- AGECE 20400 - Introduction To Resource Economics And Environmental Policy
or
- ECON 25100 - Microeconomics
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11900 - Introduction To Forestry And Natural Resources Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CGT 11000 - Technical Graphics Communications
- EEE 35500 - Engineering Environmental Sustainability
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MET 14300 - Materials And Processes I
- MET 24500 - Manufacturing Systems
- PHIL 11100 - Ethics
or
- PHIL 28000 - Ethics And Animals
or
- PHIL 29000 - Environmental Ethics
- PHYS 22000 - General Physics
- STAT 30100 - Elementary Statistical Methods
- TLI 23500 - Introduction To Lean And Sustainable Systems
- TLI 31600 - Statistical Quality Control
- TLI 33400 - Economic Analysis For Technology Systems
- TLI 43530 - Operations Planning And Management
- TLI 43540 - Facilities Planning And Material Handling
- Sustainability Selectives - Credit Hours: 6.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- ENGL 42100 - Technical Writing

Electives (8-9 credits)

- Elective - Credit Hours: 8.00-9.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11900 - Introduction To Forestry And Natural Resources Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry
- ENGL 10600 - First-Year Composition
- or
- ENGL 10800 - Accelerated First-Year Composition
- or

- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I

14-15 Credits

Spring 1st Year

- BTNY 11000 - Introduction To Plant Science
- CHM 11200 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- PHIL 11100 - Ethics
or
- PHIL 28000 - Ethics And Animals
or
- PHIL 29000 - Environmental Ethics

16 Credits

Fall 2nd Year

- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness
or
- AGECE 20400 - Introduction To Resource Economics And Environmental Policy
or
- ECON 25100 - Microeconomics
- FNR 22310 - Introduction To Environmental Policy
or
- POL 22300 - Introduction To Environmental Policy

- MET 14300 - Materials And Processes I
- STAT 30100 - Elementary Statistical Methods
- Sustainability Selectives - Credit Hours: 3.00

15 Credits

Spring 2nd Year

- CGT 11000 - Technical Graphics Communications

- FNR 30110 - Sustainable Forest Products Manufacturing ♦
- PHYS 22000 - General Physics
- TLI 23500 - Introduction To Lean And Sustainable Systems
- Elective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- FNR 23000 - The World's Forests And Society
- FNR 41800 - Properties Of Wood Related To Manufacturing
- ENGL 42100 - Technical Writing
- TLI 31600 - Statistical Quality Control
- Humanities or Social Science Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- EEE 35500 - Engineering Environmental Sustainability
- FNR 31110 - Structure, Identification And Properties Of Woody Biomaterials
- MET 24500 - Manufacturing Systems
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

15 Credits

Fall 4th Year

- FNR 42500 - Secondary Wood Products Manufacturing
- FNR 48410 - Sustainable Furniture Design For CNC Manufacturing
- TLI 33400 - Economic Analysis For Technology Systems
- TLI 43530 - Operations Planning And Management
- Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year

- FNR 30200 - Global Sustainability Issues
- FNR 41910 - Furniture Product Development And Strength Design
- TLI 43540 - Facilities Planning And Material Handling
- Sustainability Selectives - Credit Hours: 3.00
- Elective - Credit Hours: 2.00-3.00

13-14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

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Wildlife, BS

About the Program

Learn about wildlife research, management, and education, as well as application of biological, ecological, economic, and social knowledge to wildlife management issues. Studies emphasis understanding ecosystems function, natural and human disturbance, and ecosystem resilience. You are preparing for work in public organizations (state/federal fish and wildlife), not-for-profit organizations (Nature Conservancy, Ducks Unlimited), private consulting firms, or for graduate studies (MS, PhD, DVM). This degree meets the educational standards of The Wildlife Society to become a Certified Wildlife Biologist.

Wildlife Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (59 credits)

Required Major Courses (51 credits)

- FNR 12500 - Environmental Science And Conservation
- FNR 21000 - Nat Res Info Mgmt

- FNR 22310 - Introduction To Environmental Policy
or
- POL 22300 - Introduction To Environmental Policy

- FNR 22500 - Dendrology
- FNR 24150 - Ecology And Systematics Of Fishes, Amphibians And Reptiles
- FNR 24250 - Laboratory In Ecology And Systematics Of Fishes, Amphibians And Reptiles
- FNR 25150 - Ecology And Systematics Of Mammals And Birds
- FNR 25250 - Laboratory In Ecology And Systematics Of Mammals And Birds
- FNR 30500 - Conservation Genetics
- FNR 33100 - Forest Ecosystems
- FNR 34100 - Wildlife Habitat Management
- FNR 34800 - Wildlife Investigational Techniques ♦
- FNR 37010 - Natural Resources Practicum
- FNR 37050 - Forest Habitats And Communities Practicum
- FNR 37300 - Wildlife Practicum
- FNR 37500 - Human Dimensions of Natural Resource Management
- FNR 40800 - Natural Resources Planning
- FNR 44700 - Vertebrate Population Dynamics
- FNR 47000 - Fundamentals Of Planning

- FNR 49800 - Special Assignments
or
- FNR 52600 - Aquatic Animal Health
or
- FNR 52700 - Ecotoxicology

Major Selectives (8 credits)

- Botany Selective - Credit Hours: 2.00
- Wildlife Selective - Credit Hours: 6.00

Other Departmental /Program Course Requirements (50-51 credits)

- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness (satisfies Human Culture Behavioral/Social Science for core)
- or
- AGEC 20400 - Introduction To Resource Economics And Environmental Policy (satisfies Human Culture Behavioral/Social Science for core)
- or
- ECON 25100 - Microeconomics (satisfies Human Culture Behavioral/Social Science for core)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11900 - Introduction To Forestry And Natural Resources Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- BIOL 28600 - Introduction To Ecology And Evolution
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II

- PHIL 11100 - Ethics (satisfies Human Cultures Humanities for core)
- or
- PHIL 28000 - Ethics And Animals (satisfies Human Cultures Humanities for core)
- or
- PHIL 29000 - Environmental Ethics (satisfies Human Cultures Humanities for core)

- STAT 30100 - Elementary Statistical Methods
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (10-11 credits)

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 11900 - Introduction To Forestry And Natural Resources Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 16010 - Applied Calculus I

14-15 Credits

Spring 1st Year

- BTNY 11000 - Introduction To Plant Science
- CHM 11200 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- FNR 12500 - Environmental Science And Conservation
- MA 16020 - Applied Calculus II

16 Credits

Fall 2nd Year

- AGECE 20300 - Introductory Microeconomics For Food And Agribusiness
or
- AGECE 20400 - Introduction To Resource Economics And Environmental Policy
or
- ECON 25100 - Microeconomics

- FNR 22500 - Dendrology
- FNR 24150 - Ecology And Systematics Of Fishes, Amphibians And Reptiles
- FNR 24250 - Laboratory In Ecology And Systematics Of Fishes, Amphibians And Reptiles
- STAT 30100 - Elementary Statistical Methods

13 Credits

Spring 2nd Year

- BIOL 28600 - Introduction To Ecology And Evolution
- FNR 21000 - Nat Res Info Mgmt
- FNR 25150 - Ecology And Systematics Of Mammals And Birds
- FNR 25250 - Laboratory In Ecology And Systematics Of Mammals And Birds
- FNR 34800 - Wildlife Investigational Techniques ♦
- Humanities or Social Science Selective - Credit Hours: 3.00

15 Credits

Summer Session

- FNR 37010 - Natural Resources Practicum
- FNR 37050 - Forest Habitats And Communities Practicum
- FNR 37300 - Wildlife Practicum

6 Credits

Fall 3rd Year

- FNR 22310 - Introduction To Environmental Policy
or
- POL 22300 - Introduction To Environmental Policy

- FNR 33100 - Forest Ecosystems
- FNR 34100 - Wildlife Habitat Management
- Humanities or Social Science Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- FNR 37500 - Human Dimensions of Natural Resource Management
- Botany Selective - Credit Hours: 2.00
- Wildlife Selective - Credit Hours: 3.00
- Elective - Credit Hours: 6.00

14 Credits

Fall 4th Year

- FNR 44700 - Vertebrate Population Dynamics
- FNR 47000 - Fundamentals Of Planning

- FNR 49800 - Special Assignments
or
- FNR 52600 - Aquatic Animal Health
or
- FNR 52700 - Ecotoxicology

- PHIL 11100 - Ethics
or
- PHIL 28000 - Ethics And Animals
or
- PHIL 29000 - Environmental Ethics

- Elective - Credit Hours: 3.00

13 Credits

Spring 4th Year

- FNR 30500 - Conservation Genetics
- FNR 40800 - Natural Resources Planning
- Humanities or Social Science Selective - Credit Hours: 3.00
- Wildlife Selective - Credit Hours: 3.00
- Elective - Credit Hour: 1.00-2.00

13-14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

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Minor

Fisheries and Aquatic Sciences Minor

16 Credits Required

Requirements for the Minor

Required Courses (7 credits)

- FNR 20100 - Marine Biology
- FNR 24150 - Ecology And Systematics Of Fishes, Amphibians And Reptiles
- FNR 24250 - Laboratory In Ecology And Systematics Of Fishes, Amphibians And Reptiles

Selective Courses (9 credits)

- FNR 45200 - Aquaculture
- FNR 45300 - Fish Physiology
- FNR 45400 - Fisheries Science And Management
- FNR 45500 - Fish Ecology
- FNR 52700 - Ecotoxicology
- FNR 52800 - Wildlife And Environmental Forensics
- FNR 55100 - Advanced Ichthyology
- FNR 55200 - Advanced Freshwater Ecology

Notes

Departmental permission is not required to enroll in this minor.

Other FNR 49800 or 59800 courses, with FNR approval may be used.

For students in other FNR majors, courses required in the student's major cannot be used to meet the 9 credits of selectives for this minor.

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Forest Ecosystems Minor

18 Credits Required

Requirements for the Minor

Required Courses (12 credits)

- FNR 22500 - Dendrology
- FNR 33100 - Forest Ecosystems
- FNR 33900 - Principles Of Silviculture
- FNR 35300 - Natural Resources Measurement

Selective Courses (6 credits)

- AGRY 27000 - Forest Soils
- BIOL 28600 - Introduction To Ecology And Evolution
- FNR 23000 - The World's Forests And Society
- FNR 30110 - Sustainable Forest Products Manufacturing
- FNR 33300 - Fire Effects In Forest Environments
- FNR 35700 - Fundamental Remote Sensing
- FNR 37500 - Human Dimensions of Natural Resource Management
- FNR 40700 - Forest Economics
- FNR 43400 - Tree Physiology
- FNR 44100 - Forest Entomology
- FNR 53600 - Ecology Of Disturbance
- FNR 53601 - Ecology Of Disturbance Practicum

Notes

Departmental permission is not required to enroll in this minor.

Other FNR 49800 or FNR 59800 courses, with FNR approval may be used.

For students in FNR majors, courses required in the student's major cannot be used to meet the 6 credits of selectives for this minor.

Disclaimer

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Furniture Design Minor

18 Credits Required

Requirements for the Minor

Required Courses (18 credits)

- AD 53500 - Furniture Design
- FNR 31110 - Structure, Identification And Properties Of Woody Biomaterials
- FNR 41800 - Properties Of Wood Related To Manufacturing
- FNR 41910 - Furniture Product Development And Strength Design
- FNR 42500 - Secondary Wood Products Manufacturing
- FNR 48410 - Sustainable Furniture Design For CNC Manufacturing

Note

Departmental permission is not required to enroll in this minor.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Urban Forestry Minor

15 Credits Required

Requirements for the Minor:

Required Courses: (7 credits)

- FNR 44400 - Arboricultural Practices
- FNR 44500 - Urban Forest Issues

Selective Courses: (8 credits)

- AGRY 25500 - Soil Science
- BTNY 44600 - Integrated Plant Health Management For Ornamental Plants

- ENTM 10500 - Insects: Friend And Foe
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- FNR 21000 - Nat Res Info Mgmt
- FNR 22310 - Introduction To Environmental Policy
- FNR 22500 - Dendrology
- FNR 33900 - Principles Of Silviculture
- FNR 37500 - Human Dimensions of Natural Resource Management
- FNR 43400 - Tree Physiology
- FNR 44100 - Forest Entomology
- FNR 35700 - Fundamental Remote Sensing
- FNR 35900 - Spatial Ecology And GIS
- HORT 21700 - Woody Landscape Plants
- HORT 30100 - Plant Physiology
- HORT 31700 - Landscape Contracting And Management
- LA 32500 - Planting Design II

Notes

Departmental permission is not required to enroll in this minor.

For students in other FNR majors, courses required in the student's major cannot be used to meet the 8 credits of selectives for this minor.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Wildlife Science Minor

17 Credits Required

Requirements for the Minor:

Required Courses: (11 credits)

- FNR 24000 - Wildlife In America
- FNR 24150 - Ecology And Systematics Of Fishes, Amphibians And Reptiles
- FNR 24250 - Laboratory In Ecology And Systematics Of Fishes, Amphibians And Reptiles
- FNR 25150 - Ecology And Systematics Of Mammals And Birds
- FNR 25250 - Laboratory In Ecology And Systematics Of Mammals And Birds

Selective Courses: (6 credits)

- BIOL 28600 - Introduction To Ecology And Evolution
- BIOL 48300 - Great Issues: Environmental And Conservation Biology
- BIOL 58000 - Evolution
- BIOL 58500 - Ecology
- FNR 30500 - Conservation Genetics
- FNR 35900 - Spatial Ecology And GIS
- FNR 44700 - Vertebrate Population Dynamics
- FNR 52600 - Aquatic Animal Health
- FNR 52700 - Ecotoxicology

Notes

Departmental permission is not required to enroll in this minor.

Other FNR 49800 or 59800 courses, with FNR approval may be used.

For students in FNR majors, courses required in the student's major cannot be used to meet the 6 credits of selectives for this minor.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Wood Products Manufacturing Technology Minor

18 Credits Required

Requirements for the Minor:

Required Courses

- FNR 30110 - Sustainable Forest Products Manufacturing
- FNR 31110 - Structure, Identification And Properties Of Woody Biomaterials
- FNR 41800 - Properties Of Wood Related To Manufacturing
- FNR 42500 - Secondary Wood Products Manufacturing
- TLI 11100 - Introduction To Manufacturing And Supply Chain Systems
- TLI 23500 - Introduction To Lean And Sustainable Systems

Note

Departmental permission is not required to enroll in this minor.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Department of Horticulture and Landscape Architecture

Overview

Welcome to the Department of Horticulture and Landscape Architecture at Purdue University. The mission of the Department of Horticulture and Landscape Architecture involves both education and discovery. Our faculty is committed to teaching and counseling students, and enjoys a worldwide reputation for excellence in research related to horticultural crops. Our goal is to provide the student with the necessary technical information to be successful in the horticultural field. In addition, we strive to provide students with the analytical skills necessary to interpret new information as the world of horticulture continues to change. The curricula within the Department of Horticulture are designed to provide you with communication skills, analytical skills and sensitivity to cultural diversity necessary for success in an increasingly global economy. Upon graduation, you will leave Purdue with a wealth of information and the skills for continued life-long learning. This commitment to quality education by our faculty makes the Department of Horticulture and Landscape Architecture at Purdue University one of the first places potential employers turn for employees.

Faculty

<https://ag.purdue.edu/hla/Pages/directory.aspx>

Contact Information

Department of Horticulture & Landscape Architecture

Purdue University

Horticulture Building
625 Agriculture Mall Dr.
West Lafayette, IN 47907
Phone: (765) 494-1300

Email: hla-careers@purdue.edu

Website: <https://ag.purdue.edu/hla>

The Main office for the department is located in room 207 of the HORT Building.

Graduate Information

For Graduate Information please see Horticulture and Landscape Architecture Graduate Program Information.

Baccalaureate

Horticulture: Horticultural Production and Marketing Concentration, BS

About the Program

Horticultural production and marketing prepares students in the production of horticultural crops or management of horticultural enterprises. Graduates may manage greenhouses or nurseries, floral or plant shops, garden centers, orchards, vegetable farms, and farm markets. They may be involved with development, distribution, or sales of equipment, chemicals, or plant materials.

Horticulture (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (112-113 credits)

Required Major Courses (24 credits)

- HORT 10100 - Fundamentals Of Horticulture ♦
- HORT 11000 - Survey Of Horticulture
- HORT 20100 - Plant Propagation ♦
- HORT 30100 - Plant Physiology
- HORT 31800 - Field Production Of Horticultural Crops
- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- HORT 42700 - Horticulture Capstone
- HORT 43500 - Principles Of Marketing And Management For Horticultural Businesses
- HORT 51300 - Nutrition Of Horticulture Crops
- HORT 54100 - Postharvest Technology Of Fruits And Vegetables

Other Departmental /Program Course Requirements (88-89 credits)

- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness
- AGEC 33000 - Management Methods For Agricultural Business
- AGEC 33100 - Principles Of Selling In Agricultural Business
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- AGRY 25500 - Soil Science ♦
- AGRY 32000 - Genetics
- BCHM 30700 - Biochemistry ♦
- BTNY 11000 - Introduction To Plant Science
- BTNY 30100 - Introductory Plant Pathology
- BTNY 30400 - Introductory Weed Science
- BTNY 35000 - Biotechnology In Agriculture
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry ♦
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning for core)
- MGMT 20000 - Introductory Accounting
- or
- MGMT 20010 - Business Accounting Statistics Selective - Credit Hours: 3.00
- Business Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hours: 1.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing
- or
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
- or
- COM 21700 - Science Writing And Presentation (satisfies Oral Communication for core)
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (7 credits)

- Elective - Credit Hours: 7.00-8.00

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry
- COM 11400 - Fundamentals Of Speech Communication
- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- HORT 10100 - Fundamentals Of Horticulture ♦

14 Credits

Spring 1st Year

- CHM 11200 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- HORT 11000 - Survey Of Horticulture
- HORT 20100 - Plant Propagation ♦
- MA 15800 - Precalculus- Functions And Trigonometry
- UCC Humanities or Social Sciences Selective - Credit Hours: 3.00

16-17 Credits

Fall 2nd Year

- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness
- AGRY 25500 - Soil Science
- CHM 25700 - Organic Chemistry ♦
- Statistics Selective - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hour: 1.00
- Elective - Credit Hour: 1.00

15 Credits

Spring 2nd Year

- BCHM 30700 - Biochemistry ♦
- BTNY 30100 - Introductory Plant Pathology
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- HORT 30100 - Plant Physiology
- Humanities or Social Sciences Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- AGEC 33100 - Principles Of Selling In Agricultural Business
- AGRY 32000 - Genetics
- BTNY 30400 - Introductory Weed Science
- HORT 31800 - Field Production Of Horticultural Crops
- Humanities or Social Science Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- AGEC 33000 - Management Methods For Agricultural Business
- BTNY 35000 - Biotechnology In Agriculture
- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- MGMT 20000 - Introductory Accounting
- or
- MGMT 20010 - Business Accounting
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- HORT 43500 - Principles Of Marketing And Management For Horticultural Businesses
- Business Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective (30000+ level) - Credit Hours: 3.00
- Written or Oral Communicatino Selective - Credit Hours: 3.00

16 Credits

Spring 4th Year

- HORT 42700 - Horticulture Capstone
- HORT 51300 - Nutrition Of Horticulture Crops
- HORT 54100 - Postharvest Technology Of Fruits And Vegetables
- Concentration Selective - Credit Hours: 6.00
- Electives - Credit Hours: 3.00-4.00

12-13 Credits

Note

120 semester credits required for Bachelor of Science degree.

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Horticulture: Landscape Contracting and Management, BS

About the Program

Students selecting landscape contracting and management, are prepared to direct and conduct in "hands-on" fashion, the technical side of landscape construction and plant installation. Graduates of this program often operate a landscape design/build or construction and/or maintenance firm, work as a grounds manager.

Horticulture (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (118-119 credits)

Required Major Courses (48 credits)

- HORT 10100 - Fundamentals Of Horticulture ♦
- HORT 11000 - Survey Of Horticulture
- HORT 20100 - Plant Propagation ♦
- HORT 21000 - Fundamentals Of Turfgrass Culture
- HORT 21700 - Woody Landscape Plants
- HORT 21810 - Flowers For Color
- HORT 21820 - Hardy Herbaceous Landscape Plants
- HORT 30100 - Plant Physiology
- HORT 31700 - Landscape Contracting And Management
- HORT 31800 - Field Production Of Horticultural Crops
- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- HORT 42700 - Horticulture Capstone
- HORT 43500 - Principles Of Marketing And Management For Horticultural Businesses
- LA 10110 - Survey Of Landscape Architecture
- LA 11600 - Graphic Communication For Students Of Landscape Architects And Design
- LA 16100 - Land And Society
- LA 21600 - Landscape Architectural Design I
- LA 24600 - Site Systems I

Other Departmental /Program Course Requirements (70-71 credits)

- AGECE 33000 - Management Methods For Agricultural Business
- AGECE 33100 - Principles Of Selling In Agricultural Business
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- AGRY 25500 - Soil Science ♦
- AGRY 32000 - Genetics
- ASM 21600 - Introduction To Surveying
- BTNY 11000 - Introduction To Plant Science
- BTNY 30100 - Introductory Plant Pathology
- BTNY 30400 - Introductory Weed Science
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry ♦
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- SPAN 10100 - Spanish Level I (UCC Humanities Selective (satisfies Human Cultures Humanities for core))
- SPAN 10200 - Spanish Level II (Humanities or Social Science Selective)
- MA 15800 - Precalculus- Functions And Trigonometry
- Statistics Selective - Credit Hours: 3.00
- Supervision/Personnel Selective - Credit Hours - 3.00

- Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition

or

- ENGL 10800 - Accelerated First-Year Composition

or

- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication

or

- COM 21700 - Science Writing And Presentation

or

- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (1-2 credits)

Elective - Credit Hours: 1.00-2.00

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- HORT 10100 - Fundamentals Of Horticulture ♦

14 Credits

Spring 1st Year

- CHM 11200 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- HORT 11000 - Survey Of Horticulture
- HORT 20100 - Plant Propagation ♦
- MA 15800 - Precalculus- Functions And Trigonometry
- SPAN 10100 - Spanish Level I

16-17 Credits

Fall 2nd Year

- CHM 25700 - Organic Chemistry ♦
- HORT 21700 - Woody Landscape Plants
- LA 10110 - Survey Of Landscape Architecture
- LA 11600 - Graphic Communication For Students Of Landscape Architects And Design
- LA 16100 - Land And Society
- SPAN 10200 - Spanish Level II

17 Credits

Spring 2nd Year

- AGRY 25500 - Soil Science ♦
- ASM 21600 - Introduction To Surveying
- HORT 30100 - Plant Physiology
- LA 21600 - Landscape Architectural Design I
- Economics Selective - Credit Hours: 3.00

14 Credits

Fall 3rd Year

- AGEC 33000 - Management Methods For Agricultural Business
- BTNY 30100 - Introductory Plant Pathology
- HORT 21000 - Fundamentals Of Turfgrass Culture
- HORT 21810 - Flowers For Color
- HORT 21820 - Hardy Herbaceous Landscape Plants
- LA 24600 - Site Systems I

16 Credits

Spring 3rd Year

- AGEC 33100 - Principles Of Selling In Agricultural Business
- AGRY 32000 - Genetics
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- Statistics Selective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- BTNY 30400 - Introductory Weed Science
- HORT 31700 - Landscape Contracting And Management
- HORT 31800 - Field Production Of Horticultural Crops
- HORT 43500 - Principles Of Marketing And Management For Horticultural Businesses
- Humanities or Social Science - Credit Hours: 3.00

16 Credits

Spring 4th Year

- HORT 42700 - Horticulture Capstone
- Humanities or Social Sciences Selective (30000+ level) - Credit Hours: 3.00
- Supervision/Personnel Selective - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: - 3.00
- Elective - Credit Hours: 1.00-2.00

11-12 Credits

Note

120 semester credits required for Bachelor of Science degree.

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Horticulture: Landscape Design, BS

About the Program

Graduates in Landscape Design will be ready to create planting plans and construction site plans for landscape and garden development. They will be able to work with clients to determine requirements and oversee installation of new landscapes, especially at the small commercial/institutional and residential scales.

Horticulture (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (117-118 credits)

Required Major Courses (51 credits)

- HORT 10100 - Fundamentals Of Horticulture ♦
- HORT 11000 - Survey Of Horticulture
- HORT 20100 - Plant Propagation ♦
- HORT 21700 - Woody Landscape Plants
- HORT 21810 - Flowers For Color
- HORT 21820 - Hardy Herbaceous Landscape Plants
- HORT 30100 - Plant Physiology
- HORT 31700 - Landscape Contracting And Management
- HORT 31800 - Field Production Of Horticultural Crops
- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- HORT 42700 - Horticulture Capstone
- HORT 43500 - Principles Of Marketing And Management For Horticultural Businesses
- LA 10110 - Survey Of Landscape Architecture
- LA 11600 - Graphic Communication For Students Of Landscape Architects And Design
- LA 16100 - Land And Society
- LA 21600 - Landscape Architectural Design I
- LA 22700 - Planting Design I
- LA 24600 - Site Systems I
- LA 32500 - Planting Design II

Other Departmental /Program Course Requirements (66-67 credits)

- AGEC 33000 - Management Methods For Agricultural Business
- AGEC 33100 - Principles Of Selling In Agricultural Business
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- AGRY 25500 - Soil Science ♦
- AGRY 32000 - Genetics
- BTNY 11000 - Introduction To Plant Science
- BTNY 30100 - Introductory Plant Pathology
- CHM 11100 - General Chemistry (satisfied Science #1 for core)
- CHM 11200 - General Chemistry (satisfied Science #2 for core)
- CHM 25700 - Organic Chemistry ♦

- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning for core)
- Statistics Selective - Credit Hours: 3.00
- Supervision/Personnel Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core)- Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (2-3 credits)

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- HORT 10100 - Fundamentals Of Horticulture ♦

14 Credits

Spring 1st Year

- CHM 11200 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- HORT 11000 - Survey Of Horticulture
- HORT 20100 - Plant Propagation ♦
- MA 15800 - Precalculus- Functions And Trigonometry
- UCC Humanities Selective - Credit Hours: 3.00

16-17 Credits

Fall 2nd Year

- CHM 25700 - Organic Chemistry ♦
- HORT 21700 - Woody Landscape Plants
- LA 10110 - Survey Of Landscape Architecture
- LA 11600 - Graphic Communication For Students Of Landscape Architects And Design
- LA 16100 - Land And Society

14 Credits

Spring 2nd Year

- AGRY 25500 - Soil Science ♦
- HORT 30100 - Plant Physiology
- LA 21600 - Landscape Architectural Design I
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- AGEC 33000 - Management Methods For Agricultural Business
- BTNY 30100 - Introductory Plant Pathology
- HORT 21810 - Flowers For Color
- HORT 21820 - Hardy Herbaceous Landscape Plants
- LA 24600 - Site Systems I
- Humanities or Social Sciences Selective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- AGEC 33100 - Principles Of Selling In Agricultural Business
- AGRY 32000 - Genetics
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- LA 22700 - Planting Design I
- Statistics Selective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- HORT 31700 - Landscape Contracting And Management
- HORT 31800 - Field Production Of Horticultural Crops
- HORT 43500 - Principles Of Marketing And Management For Horticultural Businesses
- LA 32500 - Planting Design II
- Written or Oral Communication - Credit Hours: 3.00

16 Credits

Spring 4th Year

- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- HORT 42700 - Horticulture Capstone
- Humanities or Social Sciences Selective (30000+ level) - Credit Hours: 3.00
- Supervision/Personnel Selective: Credit Hours: 3.00
- Elective - Credit Hours: 2.00-3.00

12-13 Credits

Note

120 semester credits required for Bachelor of Science degree.

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

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Horticulture: Landscape Enterprise Management Concentration, BS

About the Program

In addition to their science-based landscape horticultural skills, students selecting landscape enterprise management, are prepared to become account managers in client relations, business managers, as well as supervisors for landscape installation projects and landscape management.

Horticulture (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (113-114 credits)

Required Major Courses (35 credits)

- HORT 10100 - Fundamentals Of Horticulture ♦
- HORT 11000 - Survey Of Horticulture
- HORT 20100 - Plant Propagation ♦
- HORT 21700 - Woody Landscape Plants
- HORT 21810 - Flowers For Color
- HORT 21820 - Hardy Herbaceous Landscape Plants
- HORT 30100 - Plant Physiology
- HORT 31700 - Landscape Contracting And Management
- HORT 31800 - Field Production Of Horticultural Crops
- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- HORT 42700 - Horticulture Capstone
- HORT 43500 - Principles Of Marketing And Management For Horticultural Businesses
- LA 10110 - Survey Of Landscape Architecture
- LA 16100 - Land And Society (satisfies Science, Technology & Society Selective for core)

Other Departmental /Program Course Requirements (78-79 credits)

- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness (satisfies Human Culture Behavioral/Social Science for core)
- AGEC 33000 - Management Methods For Agricultural Business
- AGEC 33100 - Principles Of Selling In Agricultural Business
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- AGRY 25500 - Soil Science ♦
- AGRY 32000 - Genetics
- BTNY 11000 - Introduction To Plant Science
- BTNY 30100 - Introductory Plant Pathology
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry ♦
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- MGMT 20010 - Business Accounting
- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning for core)
- Statistics Selective (satisfies Information Literacy for core) - Credit Hours: 3.00
- Business/Supervision/Personnel Selective - Credit Hours: 3.00
- Business/Supervision/Personnel Selective - Credit Hours: 3.00
- Business/Supervision/Personnel Selective - Credit Hours: 3.00
- Business/Supervision/Personnel Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core)- Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (6-7 credits)

- Elective - Credit Hours: 6.00-7.00

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy

- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- HORT 10100 - Fundamentals Of Horticulture ♦

14 Credits

Spring 1st Year

- CHM 11200 - General Chemistry
- ENGL 10600 - First-Year Composition
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing
- HORT 11000 - Survey Of Horticulture
- HORT 20100 - Plant Propagation ♦
- MA 15800 - Precalculus- Functions And Trigonometry
- UCC Humanities Selective - Credit Hours: 3.00

16-17 Credits

Fall 2nd Year

- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness
- CHM 25700 - Organic Chemistry ♦
- HORT 21700 - Woody Landscape Plants
- LA 10110 - Survey Of Landscape Architecture
- LA 16100 - Land And Society
- Elective: 2.00

16 Credits

Spring 2nd Year

- AGEC 33000 - Management Methods For Agricultural Business
- AGRY 25500 - Soil Science ♦
- BTNY 30100 - Introductory Plant Pathology
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- HORT 30100 - Plant Physiology
- Humanities or Social Sciences Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- AGEC 33100 - Principles Of Selling In Agricultural Business
- BTNY 30100 - Introductory Plant Pathology
- HORT 21810 - Flowers For Color
- HORT 21820 - Hardy Herbaceous Landscape Plants

- Business/Supervision/Personnel Selective - Credit Hours: 3.00
- Business/Supervision/Personnel Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- AGRY 32000 - Genetics
- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- MGMT 20010 - Business Accounting
- Statistics Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00-3.00

14-15 Credits

Fall 4th Year

- HORT 31700 - Landscape Contracting And Management
- HORT 31800 - Field Production Of Horticultural Crops
- HORT 43500 - Principles Of Marketing And Management For Horticultural Businesses
- Humanities or Social Sciences Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

15 Credits

Spring 4th Year

- HORT 42700 - Horticulture Capstone
- Business/Supervision/Personnel Selective - Credit Hours: 3.00
- Business/Supervision/Personnel Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective (30000+ level) - Credit Hours: 3.00
- Written or Oral Communication Selective - Credit Hours: 3.00

13 Credits

Note

120 semester credits required for Bachelor of Science degree.

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Horticulture: Plant Science Concentration, BS

About the Program

Plant science is an option which includes training to improve plants through genetic manipulation and to investigate new methods of propagation, growth, handling, and marketing of horticultural crops. Horticultural scientists work at colleges and universities, state and federal experiment stations, and public or private laboratories and foundations. This curriculum prepares students for scientifically oriented careers such as technicians in plant breeding, propagation, and research industries. It is an excellent preparatory program for students planning to pursue post-graduate study toward a Masters or PhD degree.

Horticulture (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (113-114 credits)

Required Major Courses (22 credits)

- HORT 10100 - Fundamentals Of Horticulture ♦
- HORT 20100 - Plant Propagation ♦
- HORT 30100 - Plant Physiology
- HORT 31800 - Field Production Of Horticultural Crops

- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- HORT 42700 - Horticulture Capstone
- HORT 49100 - Special Assignments In Horticulture
- HORT 51300 - Nutrition Of Horticulture Crops
- HORT 54100 - Postharvest Technology Of Fruits And Vegetables

Other Departmental /Program Course Requirements (91-92 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- AGRY 25500 - Soil Science ♦
- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- BCHM 30700 - Biochemistry ♦
- BCHM 30900 - Biochemistry Laboratory
- BTNY 11000 - Introduction To Plant Science
- BTNY 30200 - Plant Ecology
- BTNY 30500 - Fundamentals Of Plant Classification
- BTNY 31600 - Plant Anatomy
- CHM 11500 - General Chemistry (satisfies Science #1 for core)
- CHM 11600 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry ♦
- CHM 25701 - Organic Chemistry Laboratory
- MA 16010 - Applied Calculus I (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II
- STAT 50300 - Statistical Methods For Biology
- Physics Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective (satisfies Science, Technology & Society Seclective for core) - Credit Hour: 1.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (6-7 credits)

- Elective - Credit Hours: 6.00-7.00

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- BTNY 11000 - Introduction To Plant Science
- CHM 11500 - General Chemistry ♦

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- MA 16010 - Applied Calculus I

15 Credits

Spring 1st Year

- CHM 11600 - General Chemistry ♦
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- HORT 10100 - Fundamentals Of Horticulture
- MA 16020 - Applied Calculus II
- Elective - Credit Hour: 2.00

15-16 Credits

Fall 2nd Year

- AGRY 25500 - Soil Science
- BTNY 31600 - Plant Anatomy
- CHM 25700 - Organic Chemistry ♦
- CHM 25701 - Organic Chemistry Laboratory
- UCC Humanities Selective - Credit Hours: 3.00

15 Credits

Spring 2nd Year

- BCHM 30700 - Biochemistry ♦
- BCHM 30900 - Biochemistry Laboratory
- BTNY 30200 - Plant Ecology
- HORT 20100 - Plant Propagation
- HORT 30100 - Plant Physiology
- Elective - Credit Hours: 1.00

15 Credits

Fall 3rd Year

- AGRY 32000 - Genetics
- AGRY 32100 - Genetics Laboratory
- BTNY 30500 - Fundamentals Of Plant Classification
- HORT 31800 - Field Production Of Horticultural Crops
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- STAT 50300 - Statistical Methods For Biology
- Humanities or Social Sciences Selective - Credit Hours: 3.00
- Physics Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00-4.00

15-16 Credits

Fall 4th Year

- HORT 49100 - Special Assignments In Horticulture
- Concentration Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective (30000+ level) - Credit Hours: 3.00
- UCC Science, Technology, & Society Selective - Credit Hour: 1.00
- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Spring 4th Year

- HORT 42700 - Horticulture Capstone
- HORT 51300 - Nutrition Of Horticulture Crops
- HORT 54100 - Postharvest Technology Of Fruits And Vegetables

- Concentration Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00

12 Credits

Note

120 semester credits required for Bachelor of Science degree.

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Horticulture: Public Horticulture Concentration, BS

About the Program

Public horticulture is a professional program leading to employment in botanical gardens, arboretums and other horticultural establishments in the public sector, as curators of plant collections, educators, plant propagators, illustrators, and writers. Practical training through internships in public gardens is stressed.

Horticulture (multiple concentrations) Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (112-113 credits)

Required Major Courses (37 credits)

- HORT 10100 - Fundamentals Of Horticulture ♦
- HORT 11000 - Survey Of Horticulture
- HORT 20100 - Plant Propagation ♦
- HORT 21700 - Woody Landscape Plants
- HORT 21810 - Flowers For Color
- HORT 21820 - Hardy Herbaceous Landscape Plants
- HORT 30100 - Plant Physiology
- HORT 30600 - History Of Horticulture
- HORT 31700 - Landscape Contracting And Management
- HORT 31800 - Field Production Of Horticultural Crops
- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- HORT 42700 - Horticulture Capstone
- LA 10110 - Survey Of Landscape Architecture
- LA 16100 - Land And Society
- LA 16600 - History And Theory Of Landscape Architecture

Other Departmental /Program Course Requirements (75-76 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- AGRY 25500 - Soil Science ♦
- AGRY 32000 - Genetics
- BCHM 30700 - Biochemistry
- BTNY 11000 - Introduction To Plant Science
- BTNY 30100 - Introductory Plant Pathology
- BTNY 30200 - Plant Ecology
- BTNY 30500 - Fundamentals Of Plant Classification
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry ♦
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning for core)
- Statistics Selective (satisfies Information Literacy for core) - Credit Hours: 3.00
- Communications Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Supervision/Personnel Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00

- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communication Selective - Credit Hours: 3.00

Electives (7-8 credits)

- Elective - Credit Hours: 7.00-8.00

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, [click here](#).

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Requirements

Select here for additional lists.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- BTNY 11000 - Introduction To Plant Science
- CHM 11100 - General Chemistry
- COM 11400 - Fundamentals Of Speech Communication
- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- HORT 10100 - Fundamentals Of Horticulture ♦

14 Credits

Spring 1st Year

- CHM 11200 - General Chemistry
- ENGL 10600 - First-Year Composition
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing
- HORT 11000 - Survey Of Horticulture
- HORT 20100 - Plant Propagation ♦
- MA 15800 - Precalculus- Functions And Trigonometry
- UCC Humanities Selective - Credit Hours: 3.00

16-17 Credits

Fall 2nd Year

- AGRY 25500 - Soil Science
- CHM 25700 - Organic Chemistry ♦
- HORT 21700 - Woody Landscape Plants
- LA 10110 - Survey Of Landscape Architecture
- LA 16100 - Land And Society

- Elective - Credit Hours: 1.00

15 Credits

Spring 2nd Year

- BCHM 30700 - Biochemistry ♦
- BTNY 30100 - Introductory Plant Pathology
- HORT 30100 - Plant Physiology
- LA 16600 - History And Theory Of Landscape Architecture
- Economics Selective - Credit Hours: 3.00

16 Credits

Fall 3rd Year

- AGRY 32000 - Genetics
- BTNY 30500 - Fundamentals Of Plant Classification
- HORT 21810 - Flowers For Color
- HORT 21820 - Hardy Herbaceous Landscape Plants
- Statistics Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- BTNY 30200 - Plant Ecology
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- Humanities or Social Sciences Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- HORT 30600 - History Of Horticulture

- HORT 31700 - Landscape Contracting And Management
- HORT 31800 - Field Production Of Horticultural Crops
- Written or Oral Communication Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

14 Credits

Spring 4th Year

- HORT 42700 - Horticulture Capstone
- Communication Selective - Credit Hours: 3.00
- Concentration Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective - Credit Hours: 3.00
- Supervision/Personnel Selective - Credit Hours: 3.00
- Elective - Credit Hours: 1.00-2.00

14-15 Credits

Note

120 semester credits required for Bachelor of Science degree.

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Landscape Architecture, BSLA

About the Program

Landscape architecture allows students to develop abilities in problem solving, analytical thinking, and communication. Three fundamental tracks run through the curriculum - design, technical, and plant materials. First-year students enter the pre-landscape architecture program and learn basic art, graphic communication, and design skills. Based on performance in their first year, qualified students are admitted into the professional landscape architecture program. In their second year, increasingly challenging projects allow students to apply their knowledge. Third-year students complete larger-scale projects and focus on more diverse and technically difficult concepts. Between the third and fourth years, students complete a co-op program wherein students are placed in professional offices nationwide for a minimum of forty weeks. Fourth year students focus on "real-client" projects in urban and regional design.

Landscape Architecture Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (113-114 credits)

Required Major Courses (60 credits)

- LA 10110 - Survey Of Landscape Architecture ♦
- LA 11600 - Graphic Communication For Students Of Landscape Architects And Design
- LA 11700 - Computer Technology In Design
- LA 16100 - Land And Society (satisfies Science, Technology & Society Selective for core)
- LA 16600 - History And Theory Of Landscape Architecture
- LA 21600 - Landscape Architectural Design I ♦
- LA 22600 - Landscape Architectural Design II ♦
- LA 22700 - Planting Design I ♦
- LA 24600 - Site Systems I ♦
- LA 25000 - Architectural Design
- LA 30900 - Co-Op Preparation
- LA 31600 - Landscape Architectural Design III
- LA 32500 - Planting Design II
- LA 32600 - Landscape Architectural Design IV
- LA 34600 - Site Systems II
- LA 35600 - Site Systems III
- LA 39000 - Professional Cooperative Programs In Landscape Architecture
- LA 41600 - Landscape Architectural Design V
- LA 42600 - Capstone Course In Landscape Architecture
- LA 47600 - Professional Practice Of Landscape Architecture

Other Departmental /Program Course Requirements (53-54 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- ASM 21600 - Introduction To Surveying
- BIOL 11000 - Fundamentals Of Biology I

- BIOL 11100 - Fundamentals Of Biology II
or
- BTNY 11000 - Introduction To Plant Science

- HORT 21700 - Woody Landscape Plants
- HORT 31700 - Landscape Contracting And Management
- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning Selective for core)
- Art & Design Selective - Credit Hours: 3.00
- Art & Design Selective - Credit Hours: 3.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- Mathematics or Sciences Selective - Credit Hours: 3.00
- Mathematics or Sciences Selective - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation

or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communications Selection - Credit Hours: 3.00

Electives (6-7 credits)

- Elective - Credit Hours:6.00-7.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

Additional Requirements

Select here for additional requirements.

Program Requirements

Fall 1st Year (Pre-Program)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- ENGL 10600 - First-Year Composition
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing
- LA 10110 - Survey Of Landscape Architecture ♦
- LA 11600 - Graphic Communication For Students Of Landscape Architects And Design
- LA 16100 - Land And Society

14-15 Credits

Spring 1st Year (Pre-Program)

- BIOL 11100 - Fundamentals Of Biology II
- or
- BTNY 11000 - Introduction To Plant Science

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- LA 21600 - Landscape Architectural Design I ♦
- MA 15800 - Precalculus- Functions And Trigonometry **
- Art of Design Selective - Credit Hours: 3.00

16 Credits

Fall 2nd Year

- HORT 21700 - Woody Landscape Plants
- LA 11700 - Computer Technology In Design
- LA 24600 - Site Systems I ♦
- Economics Selective - Credit Hours: 3.00
- Elective - Credit Hours: 1.00

15 Credits

Spring 2nd Year

- ASM 21600 - Introduction To Surveying
- LA 16600 - History And Theory Of Landscape Architecture
- LA 22600 - Landscape Architectural Design II ♦
- LA 22700 - Planting Design I ♦
- Art & Design Selective - Credit Hours: 3.00
- Elective - Credit Hours: 1.00

15 Credits

Fall 3rd Year

- HORT 31700 - Landscape Contracting And Management
- LA 30900 - Co-Op Preparation
- LA 31600 - Landscape Architectural Design III
- LA 32500 - Planting Design II
- LA 34600 - Site Systems II

14 Credits

Spring 3rd Year

- LA 25000 - Architectural Design
- LA 32600 - Landscape Architectural Design IV
- LA 35600 - Site Systems III
- Mathematics or Sciences Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

16 Credits

Fall & Spring 4th Year

- LA 39000 - Professional Cooperative Programs In Landscape Architecture

Fall 5th Year

- LA 41600 - Landscape Architectural Design V
- LA 47600 - Professional Practice Of Landscape Architecture
- Humanities or Social Sciences Selective (30000+ level) - Credit Hours: 3.00
- Written or Oral Communications Selection - Credit Hours: 3.00
- Elective - Credit Hour: 2.00-3.00

15-16 Credits

Spring 5th Year

- LA 42600 - Capstone Course In Landscape Architecture
- Humanities or Social Sciences Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00
- Mathematics or Sciences Selective - Credit Hours: 3.00

14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

** Students in Landscape Architecture fulfill the foundational mathematics requirement by (1) completing MA 15800 or higher or (2) completing STAT 30100. Enrolling in STAT 30100 requires either successfully completing MA 15300 and MA 15400 or taking the advanced credit examination for MA 15300 and MA 15400 to establish competency. Three (3) credits of MA 15300 or MA 15400 may be used as an unrestricted elective in the College of Agriculture Undergraduate plans of study, but may not be used as Mathematics and Sciences selective.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Sustainable Food and Farming Systems, BS

Overview

Learn how to design and manage a small farm enterprise. Study the principles of sustainable agriculture including non-chemical pest and soil management. Investigate organic, local, and urban agriculture systems and study the resilience of the American food system. Gain hands-on experience at the new Purdue University student farm. This is a comprehensive, science-based degree program that will prepare you to manage low-input farming enterprises and for a career in many other agricultural and environmental professional fields.

[Sustainable Food and Farming Systems Website](#)

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (113-115 credits)

Required Major Courses (13 credits)

- SFS 21000 - Small Farm Experience I
- SFS 21100 - Small Farm Experience II
- SFS 30100 - Agroecology
- SFS 30200 - Principles Of Sustainability
- SFS 35000 - Summer Farm Internship
- SFS 35100 - SFS Capstone Project

Other Departmental /Program Course Requirements (100-102 credits)

- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- AGR 20100 - Communicating Across Culture

- AGRY 10500 - Crop Production
or
- HORT 10100 - Fundamentals Of Horticulture

- AGRY 25500 - Soil Science
or
- AGRY 27000 - Forest Soils

- AGRY 32000 - Genetics
- ANSC 10200 - Introduction To Animal Agriculture

- ANSC 23000 - Physiology Of Domestic Animals
or
- HORT 30100 - Plant Physiology

- BIOL 11000 - Fundamentals Of Biology I
- BTNY 11000 - Introduction To Plant Science

- BTNY 20700 - The Microbial World
or
- BIOL 22100 - Introduction To Microbiology

- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning for core)
- STAT 30100 - Elementary Statistical Methods
- Agronomy/Horticulture Selective - Credit Hours: 3.00
- Animal Science Selective - Credit Hours: 3.00
- Business Management Selective - Credit Hours: 3.00
- Ecology/Environment Selective - Credit Hours: 6.00
- Food Science Selective - Credit Hours: 3.00
- Pest Management Selectives - Credit Hours: 6.00

- Soil Science Selective - Credit Hours: 3.00
- Systems Modules Selectives - Credit Hours: 6.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanites Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

Electives (5-7 credits)

- Elective - Credit Hours: 5.00 - 7.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- BIOL 11000 - Fundamentals Of Biology I
- CHM 11100 - General Chemistry

- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- MA 15800 - Precalculus- Functions And Trigonometry

14 Credits

Spring 1st Year

- AGRY 10500 - Crop Production
or
- HORT 10100 - Fundamentals Of Horticulture

- BTNY 11000 - Introduction To Plant Science
- CHM 11200 - General Chemistry
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing
- SFS 21000 - Small Farm Experience I

16-17 Credits

Fall 2nd Year

- ANSC 10200 - Introduction To Animal Agriculture
- SFS 21100 - Small Farm Experience II
- SFS 30100 - Agroecology
- Agronomy/Horticulture Selective - Credit Hours: 3.00
- Systems Modules Selective - Credit Hours: 3.00

15 Credits

Spring 2nd Year

- AGEC 20300 - Introductory Microeconomics For Food And Agribusiness
- AGRY 25500 - Soil Science
or
- AGRY 27000 - Forest Soils
- BTNY 20700 - The Microbial World
or
- BIOL 22100 - Introduction To Microbiology
- SFS 30200 - Principles Of Sustainability
- Systems Modules Selective - Credit Hours: 3.00

15-16 Credits

Fall 3rd Year

- AGR 20100 - Communicating Across Culture
- ANSC 23000 - Physiology Of Domestic Animals
or
- HORT 30100 - Plant Physiology
- Pest Management Selective - Credit Hours: 3.00
- Soil Science Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00

16 Credits

Spring 3rd Year

- AGRY 32000 - Genetics
- STAT 30100 - Elementary Statistical Methods
- Animal Science Selective - Credit Hours: 3.00
- Pest Management Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00

15 Credits

Summer Session

- SFS 35000 - Summer Farm Internship

Fall 4th Year

- SFS 35100 - SFS Capstone Project
- Business Management Selective - Credit Hours: 3.00
- Economics Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

13 Credits

Spring 4th Year

- Ecology/Environment Selectives - Credit Hours: 6.00
- Food Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00 - 4.00

14-16 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Turf Management and Science, BS

About the Program

This major is for students interested in a career as a professional turf manager. A turf manager oversees and implements cultural management programs for the maintenance, production, conditioning and performance of a wide variety of turf areas like lawns, athletic fields, golf courses, parks, and sod farms. Managing a visually pleasing and manicured turf that is subject to intense use requires a foundation of technical expertise, the ability to make precise management decisions and a wealth of practical experience. The Turf Science and Management curriculum is based in scientific principles, while also providing the technical information, business/management, written/oral communication, and problem solving coursework and skills to promote managerial success. This Bachelor of Science degree broadly prepares students to handle a wide array of potential career paths in the Turf Industry.

Turf Management and Science Website

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (113-114 credits)

Required Major Courses (19 credits)

- HORT 10100 - Fundamentals Of Horticulture
 - HORT 11100 - Survey Of Turfgrass Culture
 - HORT 21000 - Fundamentals Of Turfgrass Culture
 - HORT 21100 - Fundamentals of Turfgrass Culture Laboratory
 - HORT 30100 - Plant Physiology
 - AGRY 51000 - Turfgrass Science
 - AGRY 51200 - Integrated Turfgrass Systems
 - AGRY 51400 - Environmental Stress Management For Turfgrass
- or
- HORT 51300 - Nutrition Of Horticulture Crops

Other Departmental /Program Course Requirements (94-95 credits)

- AGEC 33000 - Management Methods For Agricultural Business
- AGEC 33100 - Principles Of Selling In Agricultural Business
- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- AGRY 25500 - Soil Science ♦
- AGRY 36500 - Soil Fertility
- BTNY 11000 - Introduction To Plant Science
- BTNY 30100 - Introductory Plant Pathology
- BTNY 30400 - Introductory Weed Science

- BTNY 44300 - Arthropods And Diseases Of Turfgrass
or
- ENTM 44600 - Integrated Plant Health Management For Ornamental Plants

- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- CHM 25700 - Organic Chemistry ♦
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning Selective for core)

- MGMT 20010 - Business Accounting
or
- MGMT 20000 - Introductory Accounting

- STAT 30100 - Elementary Statistical Methods (satisfies Information Literacy for core)
- Physics Selective - Credit Hours: 3.00
- Business/Management Selectives - Credit Hours: 9.00
- Economics Selective (satisfies Human Culture Behavioral/Social Science for core) - Credit Hours: 3.00
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 1.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Turf Science Selectives - Credit hours: 9.00
- ENGL 10600 - First-Year Composition (satisfies Written Communication for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- Written or Oral Communications Selective - Credit Hours: 3.00

Electives (6-7 credits)

- Elective - Credit Hours: 6.00-7.00

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click [here](#).

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12000 - Introduction To Horticulture And Landscape Architecture Academic Programs
- BTNY 11000 - Introduction To Plant Science
- HORT 11100 - Survey Of Turfgrass Culture
- CHM 11100 - General Chemistry
- ENGL 10600 - First-Year Composition
- or
- ENGL 10800 - Accelerated First-Year Composition
- or
- HONR 19903 - Interdisciplinary Approaches In Writing
- MA 15800 - Precalculus- Functions And Trigonometry

15-16 Credits

Spring 1st Year

- CHM 11200 - General Chemistry
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

- HORT 10100 - Fundamentals Of Horticulture
- Economics Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00

15 Credits

Fall 2nd Year

- AGRY 25500 - Soil Science ♦
- CHM 25700 - Organic Chemistry ♦
- MGMT 20010 - Business Accounting
or
- MGMT 20000 - Introductory Accounting

- STAT 30100 - Elementary Statistical Methods
- Written or Oral Communication Selective - Credit Hours: 3.00

16 Credits

Spring 2nd Year

- AGRY 36500 - Soil Fertility
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- HORT 21000 - Fundamentals Of Turfgrass Culture
- HORT 21100 - Fundamentals of Turfgrass Culture Laboratory
- HORT 30100 - Plant Physiology

14 Credits

Fall 3rd Year

- AGEC 33000 - Management Methods For Agricultural Business
- AGRY 51000 - Turfgrass Science
- BTNY 30100 - Introductory Plant Pathology
- BTNY 30400 - Introductory Weed Science
- Humanities or Social Sciences Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- AGEC 33100 - Principles Of Selling In Agricultural Business
- BTNY 44300 - Arthropods And Diseases Of Turfgrass
or
- ENTM 44600 - Integrated Plant Health Management For Ornamental Plants

- Physics Selective - Credit Hours: 3.00
- Turf Management Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- AGRY 51200 - Integrated Turfgrass Systems

- AGRY 51400 - Environmental Stress Management For Turfgrass
or
- HORT 51300 - Nutrition Of Horticulture Crops

- Business/Management Selective - Credit Hours: 3.00
- Humanities or Social Sciences Selective (30000+ level) - Credit Hours: 3.00
- Turf Management Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

16 Credits

Spring 4th Year

- Business/Management Selective - Credit Hours: 3.00

- Business/Management Selective - Credit Hours: 3.00
- Turf Management Selective - Credit Hours: 3.00
- UCC Science, Technology & Society Selective - Credit Hours: 1.00
- Electives - Credit Hours: 3.00-4.00

13-14 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

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Certificate

Landscape Management and Turf Management Certificate

23 Credits Required

Requirements for the Certificate

Complete information about the certificate plan of study.

Required Courses (23 credits)

- AGRY 25500 - Soil Science
- CHM 11100 - General Chemistry
- HORT 10100 - Fundamentals Of Horticulture
- HORT 21000 - Fundamentals Of Turfgrass Culture
- HORT 21100 - Fundamentals of Turfgrass Culture Laboratory
- HORT 21700 - Woody Landscape Plants
- HORT 31700 - Landscape Contracting And Management
- AGRY 51000 - Turfgrass Science

Additional Information

Required Certification in Pesticide Application: Complete certification requirement for an Indiana "For-Hire Pesticide Applicator License" in either category 3a Ornamental Pest Management, or 3b Turf Management. (*Information available from the Office of the Indiana State Chemist - Pesticide Section*)

REQUIRED PROFESSIONAL EXPERIENCE: Complete a minimum of 320 hours of work experience in turf and/or landscape horticulture.

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Minor

Horticulture Minor

18 Credits Required

Requirements for the Minor:

Required Courses: (7 credits)

- HORT 10100 - Fundamentals Of Horticulture
- HORT 11000 - Survey Of Horticulture
- HORT 20100 - Plant Propagation

Selective Courses: (9 credits)

- HORT 21700 - Woody Landscape Plants
- HORT 21810 - Flowers For Color
- HORT 21820 - Hardy Herbaceous Landscape Plants
- HORT 22200 - DynaSCAPE Applications In Horticulture
- HORT 22400 - Photoshop Applications In Horticulture
- HORT 29100 - Selected Topics In Horticulture
- HORT 30100 - Plant Physiology
- HORT 30600 - History Of Horticulture
- HORT 31700 - Landscape Contracting And Management
- HORT 31800 - Field Production Of Horticultural Crops
- HORT 31900 - Controlled Environment Production Of Horticultural Crops
- HORT 36000 - Flower Arrangement And Indoor Plant Management
- HORT 37000 - Professional Floral Design
- HORT 40300 - Tropical Horticulture
- HORT 42700 - Horticulture Capstone
- HORT 43500 - Principles Of Marketing And Management For Horticultural Businesses
- HORT 45000 - In The English Landscape: Integrating History, Horticulture, and Landscape Architecture
- HORT 49100 - Special Assignments In Horticulture
- HORT 50600 - Commercial Grape And Wine Production
- HORT 51300 - Nutrition Of Horticulture Crops
- HORT 54100 - Postharvest Technology Of Fruits And Vegetables
- HORT 55300 - Plant Growth And Development
- HORT 59000 - Special Studies In Horticulture
- SFS 21000 - Small Farm Experience I
- SFS 21100 - Small Farm Experience II

Notes

Departmental permission is not required to enroll in this minor.

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Landscape and Turf Minor

13-14 Credits Required

Requirements for the Minor

Required Courses (10 credits)

- HORT 10100 - Fundamentals Of Horticulture
- HORT 21000 - Fundamentals Of Turfgrass Culture
- HORT 21100 - Fundamentals of Turfgrass Culture Laboratory
- LA 10110 - Survey Of Landscape Architecture
- LA 16100 - Land And Society

Selective Course (3 credits)

- HORT 21700 - Woody Landscape Plants
- HORT 21810 - Flowers For Color
- HORT 21820 - Hardy Herbaceous Landscape Plants

Notes

Departmental permission is not required to enroll in this minor.

Students in the following major/concentrations cannot obtain a Landscape and Turf Minor:

- Horticulture Landscape Enterprise Management
- Horticulture Landscape Contracting Management
- Horticulture Landscape Design
- Turf Science and Management
- Turf Management and Science
- Turf Science

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Landscape Management Minor

12-13 Credits Required

Requirements for the Minor

Required Courses (9-10 credits)

- HORT 10100 - Fundamentals Of Horticulture
- HORT 31700 - Landscape Contracting And Management

Choose one Plant Materials course:

- HORT 21700 - Woody Landscape Plants
or
- HORT 21810 - Flowers For Color
or
- HORT 21820 - Hardy Herbaceous Landscape Plants

Selective Course (3 credits)

- BTNY 44600 - Integrated Plant Health Management For Ornamental Plants
or
- ENTM 44600 - Integrated Plant Health Management For Ornamental Plants
- HORT 20100 - Plant Propagation
- HORT 21700 - Woody Landscape Plants
- HORT 21810 - Flowers For Color
- HORT 21820 - Hardy Herbaceous Landscape Plants

Notes

Departmental permission is not required to enroll in this minor.

(HORT 21700, HORT 21810, and HORT 21820 can only be used as a selective, if not used as the Plant Materials course above.)

Students in the following majors/concentrations cannot obtain a Landscape Management Minor:

- Horticulture/Landscape Enterprise Management
- Horticulture/Landscape Contracting Management
- Horticulture/Landscape Design
- Horticulture/Landscape Horticulture and Design

Disclaimer

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Turf Management Minor

13 Credits Required

Requirements for the Minor:

Required Courses: (10 Credits)

- AGRY 25500 - Soil Science
- HORT 21000 - Fundamentals Of Turfgrass Culture
- HORT 21100 - Fundamentals of Turfgrass Culture Laboratory
- AGRY 51000 - Turfgrass Science

Selective Course: (3 Credits)

- AGRY 51400 - Environmental Stress Management For Turfgrass
- AGRY 36500 - Soil Fertility
- BTNY 44300 - Arthropods And Diseases Of Turfgrass
- ENTM 44300 - Arthropods And Diseases Of Turfgrass
- AGRY 51200 - Integrated Turfgrass Systems

Notes

Departmental permission is not required to enroll in this minor.

Students in the following majors/concentrations cannot obtain a Turf Management Minor:

- Turf Management and Science
- Turf Science and Management
- Turf Science

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Department of Youth Development and Agricultural Education

Overview

Welcome to the Department of Youth Development and Agricultural Education at Purdue University. The department's motto is "Empower, Educate, and Enhance."

These three very powerful words clearly and succinctly identify the purposes of the department. Empowering, Educating and Enhancing is accomplished by this interdisciplinary department with undergraduate programs in Agricultural Education and Agricultural Communication and a nationally recognized graduate program focused on learning and communication in the context of agriculture.

Faculty

<https://ag.purdue.edu/Pages/directory.aspx>.

Contact Information

Youth Development & Agricultural Education

Purdue University
Agriculture Administration Building
615 West State Street
West Lafayette, IN 47907
Phone: (765) 494-8423
Email: undergrad@ydae.purdue.edu

Website: <http://ydae.purdue.edu/undergrad/aged>

The Main office for the department is located in Room 214 of the AGAD Building.

Graduate Information

For Graduate Information please see Youth Development and Agricultural Education Graduate Program Information.

Baccalaureate

Agricultural Communication, BS

About the Program

Prepare for a profession that serves business and society by promoting awareness of food, agriculture, and science issues among rural and urban audiences. Purdue agricultural communication majors gain skills and experience in public relations, marketing, journalism, and new media through diverse coursework and competitive internships. Through the program's design, students have the advantage of excelling in communication, science, and agricultural courses—a combination future employers value. Though situated within a large university, the agricultural communication program offers a close-knit community in which students receive personal attention from faculty and staff in the College of Agriculture.

[Agricultural Communication Website](#)

Degree Requirements

120 Credits Required

Departmental/Program Major Courses (110-111 credits)

Required Major Courses (24 credits)

- YDAE 15200 - Agricultural Communication Seminar ♦
- YDAE 46000 - Agricultural Publishing
- YDAE 48000 - Agricultural Communication Capstone Seminar
- COM 20400 - Critical Perspectives On Communication
- COM 25000 - Mass Communication And Society
- COM 25200 - Writing For Mass Media
- COM 31100 - Copy Editing
- COM 31800 - Principles Of Persuasion

Other Departmental /Program Course Requirements (86-87 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12100 - Introduction To Youth Development And Agricultural Education Academic Programs
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- CHM 11100 - General Chemistry (satisfies Science #1 for core)
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning for core)
- STAT 30100 - Elementary Statistical Methods
- Math/Science Selective - Credit Hours: 3.00
- AGR 20100 - Communicating Across Culture
- Communication or AGCM Selective - Credit Hours: 8.00
- Communication or AGCM 300+ Selective - Credit Hours: 3.00
- AGCM or Science Communication Selective - Credit Hours: 3.00
- Agricultural Selective - Credit Hours: 15.00
- Agricultural 30000+ Selective - Credit Hours: 6.00
- AGECE 21700 - Economics
- UCC Humanities Selective (satisfies Human Cultures Humanities for core) - Credit Hours: 3.00
- UCC STS Selective (satisfies Science, Technology & Society Selective for core) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills

Electives (9 - 10 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click here.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12100 - Introduction To Youth Development And Agricultural Education Academic Programs

- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

- YDAE 15200 - Agricultural Communication Seminar ♦
- Humanities or Social Science Selective - Credit Hours: 3.00
- Biological Science Selective - Credit Hours: 4.00

14-15 Credits

Spring 1st Year

- AGECE 21700 - Economics
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- COM 25000 - Mass Communication And Society
- Agricultural Selective - Credit Hours: 3.00
- Biological Science Selective - Credit Hours: 4.00

16 Credits

Fall 2nd Year

- AGR 20100 - Communicating Across Culture
- CHM 11100 - General Chemistry
- COM 20400 - Critical Perspectives On Communication
- MA 15800 - Precalculus- Functions And Trigonometry
- UCC Science, Technology, & Society Selective - Credit Hours: 3.00

15 Credits

Spring 2nd Year

- CHM 11200 - General Chemistry
- COM 31800 - Principles Of Persuasion
- Agricultural Selective - Credit Hours: 3.00
- Communication or AGCM Selective - Credit Hours: 2.00
- Mathematics or Science Selective - Credit Hours: 3.00
- Elective - Credit Hours: 1.00

15 Credits

Fall 3rd Year

- COM 25200 - Writing For Mass Media
- STAT 30100 - Elementary Statistical Methods
- Agricultural Selective - Credit Hours: 6.00
- Communication or AGCM Selective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- YDAE 46000 - Agricultural Publishing
- Agricultural Selective (30000+ Level) - Credit Hours: 3.00
- Communication or AGCM Selective - Credit Hours: 3.00
- UCC Humanities Selective - Credit Hours: 3.00
- Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

- COM 31100 - Copy Editing
- YDAE 48000 - Agricultural Communication Capstone Seminar
- Agricultural Selective - Credit Hours: 3.00
- Communication or AGCM Selective (30000+ level) - Credit Hours: 3.00
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

15 Credits

Spring 4th Year

- AGCM or Science Communication Selective - Credit Hours: 3.00
- Agricultural Selective (30000+ level) - Credit Hours: 3.00
- Humanities or Social Science Selective - Credit Hours: 3.00
- Electives - Credit Hours: 5.00 - 6.00

14-15 Credits

Notes

2.0 GPA required for Bachelor of Science degree.

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

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Agricultural Education, BS

About the Program

Agricultural education students combine their interest in agriculture with their desire to work with people. Students are prepared to teach agricultural science, business, and related subjects in junior high, high school, or college settings. They also can pursue careers in agricultural service industries. There is a high demand for agricultural science and business teachers in Indiana and across the United States.

[Agricultural Education Website](#)

Degree Requirements

128 Credits Required

Departmental/Program Major Courses (128 credits)

Required Major Courses (10 credits)

- YDAE 31800 - Coordination Of Supervised Agricultural Experience Programs
- YDAE 31900 - Planning Agricultural Science And Business Programs
- YDAE 44000 - Methods Of Teaching Agricultural Education
- YDAE 44100 - Field Experience In Agricultural Education Programs

Other Departmental /Program Course Requirements (117-118 credits)

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12100 - Introduction To Youth Development And Agricultural Education Academic Programs

- AGECE 31000 - Farm Organization
or
- AGECE 33000 - Management Methods For Agricultural Business

- AGRY 37500 - Crop Production Systems
- ANSC 10200 - Introduction To Animal Agriculture (satisfies Science, Technology & Society Selective for core)
- ANSC 22100 - Principles Of Animal Nutrition
- ASM 1XXXXX Welding Transfer Credits - Credit Hours: 3.00
- ASM 20100 - Construction And Maintenance
- Biological Science Selective - Credit Hours: 4.00
- Biological Science Selective - Credit Hours: 4.00
- CHM 11100 - General Chemistry (satisfies Science #1 for core) ♦
- CHM 11200 - General Chemistry (satisfies Science #2 for core)
- MA 15800 - Precalculus- Functions And Trigonometry (satisfies Quantitative Reasoning for core)
- STAT 30100 - Elementary Statistical Methods
- AGRY 32000 - Genetics
- AGRY 25500 - Soil Science
- EDCI 20500 - Exploring Teaching As A Career ♦
- EDCI 27000 - Introduction To Educational Technology And Computing
- EDCI 28500 - Multiculturalism And Education ♦
- EDCI 49800 - Supervised Teaching
- EDST 20010 - Educational Policies And Laws
- EDPS 23500 - Learning And Motivation ♦
- EDPS 26500 - The Inclusive Classroom ♦
- EDPS 32700 - Assessment Literacy
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- FS 16100 - Science Of Food
- HORT 10100 - Fundamentals Of Horticulture
- HORT 20100 - Plant Propagation
- Technical Agriculture Selective - Credit Hours: 15.00

- ENGL 10600 - First-Year Composition (satisfies Written Communication for core) (satisfies Information Literature for core)
or
- ENGL 10800 - Accelerated First-Year Composition

- or
- HONR 19903 - Interdisciplinary Approaches In Writing
- COM 11400 - Fundamentals Of Speech Communication (satisfies Oral Communication for core)
- or
- COM 21700 - Science Writing And Presentation
- or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- AGECE 21700 - Economics (satisfies Human Culture Behavioral/Social Science for core)
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00

Electives (0-1 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website.

Prerequisite Information:

For current pre-requisites for courses, click here.

College of Agriculture & University Level Requirements

- 2.0 GPA required for Bachelor of Science degree
- 32 Upper division credits taken from Purdue
- 9 credits International Understanding
- 3 credits Multicultural Awareness
- 9 credits of Hum and/or Social Sciences outside the College of Agriculture

Additional Degree Requirements

For supplemental information click here.

Program Requirements

Fall 1st Year

- AGR 10100 - Introduction To The College Of Agriculture And Purdue University
- AGR 12100 - Introduction To Youth Development And Agricultural Education Academic Programs
- ANSC 10200 - Introduction To Animal Agriculture
- EDCI 27000 - Introduction To Educational Technology And Computing
- HORT 10100 - Fundamentals Of Horticulture
- Biological Science Selective - Credit Hours: 4.00

14 Credits

Spring 1st Year

- AGECE 21700 - Economics
- COM 11400 - Fundamentals Of Speech Communication
or
- COM 21700 - Science Writing And Presentation
or
- EDPS 31500 - Collaborative Leadership: Interpersonal Skills
- ENGL 10600 - First-Year Composition
or
- ENGL 10800 - Accelerated First-Year Composition
or
- HONR 19903 - Interdisciplinary Approaches In Writing

16-17 Credits

Fall 2nd Year

- CHM 11100 - General Chemistry ♦
- EDCI 20500 - Exploring Teaching As A Career ♦
- EDCI 28500 - Multiculturalism And Education ♦
- MA 15800 - Precalculus- Functions And Trigonometry
- ASM 1XXXXX Welding (transfer credits) - Credit Hours: 3.00
- Technical Agriculture Selective - Credit Hours: 3.00

18 Credits

Spring 2nd Year

- AGEC 31000 - Farm Organization
- or
- AGEC 33000 - Management Methods For Agricultural Business
- CHM 11200 - General Chemistry
- EDPS 23500 - Learning And Motivation ♦
- EDPS 26500 - The Inclusive Classroom ♦
- ENTM 20600 - General Entomology
- ENTM 20700 - General Entomology Laboratory
- HORT 20100 - Plant Propagation

18 Credits

Fall 3rd Year

- AGRY 25500 - Soil Science
- AGRY 32000 - Genetics
- ASM 20100 - Construction And Maintenance
- EDPS 32700 - Assessment Literacy
- EDST 20010 - Educational Policies And Laws
- YDAE 31800 - Coordination Of Supervised Agricultural Experience Programs
- Technical Agriculture Selective - Credit Hours: 3.00

18 Credits

Spring 3rd Year

- AGRY 37500 - Crop Production Systems
- ANSC 22100 - Principles Of Animal Nutrition
- YDAE 31900 - Planning Agricultural Science And Business Programs
- YDAE 44100 - Field Experience In Agricultural Education Programs
- Humanities or Social Science Selective (30000+ level) - Credit Hours: 3.00
- Technical Agriculture Selective - Credit Hours: 3.00

16 Credits

Fall 4th Year

- FS 16100 - Science Of Food
- STAT 30100 - Elementary Statistical Methods
- YDAE 44000 - Methods Of Teaching Agricultural Education
- Technical Agriculture Selective - Credit Hours: 6.00

- Elective - Credit Hours: 0.00 - 1.00

15-16 Credits

Spring 4th Year

- EDCI 49800 - Supervised Teaching

12 Credits

Notes

2.5 GPA required for Bachelor of Science degree.

There are GPA requirements for stage-gates in this degree

Consultation with an advisor may result in an altered plan customized for an individual student.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.