Agricultural Systems Management

Become a leader in agricultural production.

THIS MAJOR IS A GOOD FIT
IF YOU CAN SEE YOURSELF:

TAKING A HANDS-ON APPROACH to solving problems

USING YOUR CREATIVITY to develop and test new ideas

COMMUNICATING and managing people

This major prepares you to make well-informed decisions about growing and processing agricultural products. You will learn to determine how different production methods affect profitability and the environment. Understand the principles of machine operation to better maintain and manage equipment to improve production in various agricultural operations. Determine the most effective irrigation systems and how to efficiently manage them to meet crop production needs. Successfully manage labor. We teach the tools of precision agriculture including global positioning systems, sensors, and GIS information management systems.

INSIDE THE CLASSROOM
Take courses in crop management, business, and agricultural economics. Much of your education will be hands on: Map crops with information from GPS and explore how GIS can help you make decisions about irrigation and nutrient application. Experiment with tools and equipment in the shop practices lab. Wire connections, switches, and motors in the electric power lab. Work metal to maintain equipment in the welding lab.

OUTSIDE THE CLASSROOM

INTERN. Get practical experiences like these: COMMERCIAL FARM Help optimize crop and irrigation management . . . ARCHER DANIELS MIDLAND Operate a grain receiving facility . . . SIMPLOT SOIL BUILDERS Collect soils data with portable data loggers.

STUDY ABROAD. Deepen your understanding of your major—and the world—in countries like these: INDIA Learn about 1,000-year-old farming practices on terraced hillsides . . . MEXICO Evaluate how well absorbents clean biodiesel . . . TAIWAN Reach speeds of 190 miles per hour on a bullet train.

DO RESEARCH. Make hands-on discoveries. Earn money working with faculty on grant-funded research. BIODIESEL EDUCATION GRANT Take part in one of many alternative-fuels research projects . . . ENVIRONMENTAL BIOTECHNOLOGY INSTITUTE Turn dairy manure into methane gas.

GET INVOLVED. Network and have fun. AMERICAN SOCIETY OF AGRICULTURAL AND BIOLOGICAL ENGINEERS Join the ASM branch, meet business leaders and potential employers. Help lay out and cut the Clearwater Corn Maze using GIS and GPS technologies.

FASTFACT

Many of our graduates choose to return to the family farm—equipped with honed knowledge and skills in ag operations and management.

CAREER OPPORTUNITIES
Jobs in the industry are plentiful, and our graduates are highly sought by manufacturers, agribusiness firms, and farm operations. Starting salaries are as high as $45,000.

Here are a few possibilities:

FARM BUSINESS OWNER. Oversee production of a farm, ranch, or other agricultural business. Supervise and train employees; monitor equipment and systems.

AG SYSTEMS DESIGNER. Study the production process and develop ways to integrate new technologies or systems that will improve efficiency and sustainability.

INDUSTRY REPRESENTATIVE OR TECHNICIAN. Work for an equipment manufacturer or a crop protection company. Match equipment to client needs. Test and repair equipment.

SAFETY SUPERVISOR. Teach employees how to use equipment to ensure their well-being. Develop precautions to prevent injuries.

COMBINE YOUR EDUCATION. A second language can open doors to international careers. Depending on your goals, you might take more courses in business or economics.

CONTINUE YOUR EDUCATION. Earn an advanced degree in agricultural economics or business.

FIND OUT MORE ABOUT THE UNIVERSITY OF IDAHO AGRICULTURAL SYSTEMS MANAGEMENT MAJOR

WWW.UIDAHO.EDU/CALS/BAE

AGRICULTURAL SYSTEMS MANAGEMENT

4-YEAR PLAN 2012-13

FALL

FRESHMAN

ASM 112 Intro. to Agricultural Systems Management	3
ASM 200 ASM Seminar	1
Engl 101 Intro. to College Writing	3
ISEM 101 Integrated Seminar	3
Math 108 Intermediate Algebra (unless qualified for Math 143)	3
PlSc 102 Science of Plants in Agriculture	3
TOTAL	**16**

SOPHOMORE

Acct 201 Intro. to Financial Accounting	3
AgEc 278 Farm & Agribusiness Management	4
Chem 101 Intro. to Chemistry	4
Econ 201 Principles of Economics	3
Elective Elective—Humanities	3
TOTAL	**17**

JUNIOR

AgEc 356 Agricultural & Rural Policy	3
ASM 305* GPS & Precision Agriculture *and/or* **ASM 315*** Irrigation Systems & Water Mgmt. *and/or* **ASM 331*** Electric Power Systems for Agriculture	3
Bus 101 Introducion to Business Enterprises	3
Engl 313 Business Writing *or* **Engl 317** Technical Writing	3
Elective Elective—Ag or Tech	4
TOTAL	**16**

SENIOR

AgEc 406 Exploring International Agriculture	3
ASM 305* GPS & Precision Agriculture *and/or* **ASM 315*** Irrigation Systems & Water Mgmt. *and/or* **ASM 331*** Electric Power Systems for Agriculture	3
BAE 491 Senior Seminar	1
BLaw 265 Legal Environment of Business	3
ISEM 301 Integrated Seminar	3
Elective Elective—Approved AgEc	3
TOTAL	**16-19**

SPRING

FRESHMAN

ASM 107 Beginning Welding	2
Comm 101 Fundamentals of Public Speaking	2
Engl 102 College Writing & Rhetoric	3
Engr 105 Engineering Graphics	2
Math 143 Pre-calculus Algebra & Analytic Geometry	3
Electives Electives—Ag or Tech	4
TOTAL	**16**

SOPHOMORE

Acct 202 Intro. to Managerial Accounting	3
ASM 412 Agricultural Safety & Health	2
Biol 102 Biology & Society *or* **Biol 115** Cells & the Evolution of Life	4
Econ 202 Principles of Economics	3
Soil 205/206 Soil Ecosystem/Lab	4
Elective Elective—Ag or Tech	1
TOTAL	**17**

JUNIOR

AgEc 289 Agricultural Markets & Prices	3
ASM 202 Agricultural Shop Practices	2
ASM 409* Agricultural Tractors, Power Units, and Machinery Management *or* **ASM 433*** Agricultural Processing Systems	3-4
Phys 100 Fundamentals of Physics *or* **Phys 111** General Physics I	4
Stat 251 Principles of Statistics	3
Elective Elective—Approved	2
TOTAL	**17-18**

SENIOR

ASM 409* Agricultural Tractors, Power Units, and Machinery Management *or* **ASM 433*** Agricultural Processing Systems	3-4
Electives Electives—Ag or Tech	6
Elective Elective—Approved AgEc	3
Elective Elective—Life Science	3
TOTAL	**15-16**

Total for degree = 128 credits. Course offerings may change from year to year. Always check the current course catalog.

*Course offered every other year.

TO LEARN MORE
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University of Idaho
College of Agricultural and Life Sciences