

Agricultural Systems Management

AGRICULTURAL PRODUCTION MANAGEMENT OPTION

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. Assess what pesticides to use and how to apply them. Understand agricultural machines and how best to maintain them. Determine the most effective irrigation systems to meet particular needs. Successfully manage labor. We teach the tools of precision agriculture including global positioning systems (GPS), sensors, and GIS information management software.

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. Learn to test concrete and truss strength in the structures lab. 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. Learn state-of-the-art management programming in the computing lab. Senior year, you will draw on everything you've learned when your team evaluates a real-world problem. For example, you might investigate how a small on-site biodiesel operation can reduce a farm's fuel costs.

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. **AGRABILITY PROJECT** Explore ways to assist people with disabilities employed in production agriculture . . . **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, and work with a senior design team to build a ¼-

FASTFACT

Jobs in the industry are plentiful, but many of our graduates choose to return to the family farm—equipped with new knowledge and skills.

scale tractor for the International Student Design Competition . . . **STUDENT IDAHO CATTLE ASSOCIATION** Learn about issues facing the beef cattle industry . . . **COLLEGIATE FFA** and 4-H Attend local, state, and national events.

CAREER OPPORTUNITIES

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:

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

PRODUCTION MANAGER. Oversee production for a farm, ranch, or agricultural business. Supervise and train employees; monitor equipment and systems.

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 engineering.

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

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

WWW.CALS.UIDAHO.EDU/BAE

	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
FALL	ASM 112 Intro. to Agricultural Systems Management	Acct 201 Intro. to Financial Accounting or Acct 205	AgEc 278 Farm & Agribusiness Management	ASM 304 Agricultural Fluid Power Systems
	ASM 200 ASM Seminar	Fundamentals of Accounting	ASM 305 Agricultural Machinery Systems	ASM 315 Irrigation Systems & Water Management
	CORE 103-149 Core Discovery Course	Chem 101 Intro. to Chemistry	ASM 306 Structures & Environmental Systems	BAE 478 Engineering Design I
	Engl 101 Intro. to College Writing	Econ 201 Principles of Economics	ASM 331 Electric Power Systems for Agriculture	BAE 491 Senior Seminar
	Math 108 Intermediate Algebra (unless qualified for Math 143)	Engr 105 Engineering Graphics	Elective Elective—Advanced Writing	BLaw 265 Legal Environment of Business
	PLSc 102 Science of Plants in Agriculture	ForP 230 Forest Harvesting Field Measurements or CE 218	Elective Elective—Ag or Tech	Bus/AgEc Elective—Bus or Upper-division AgEc
		Elective Elective—Approved		Elective Elective—Ag or Tech
TOTAL	17	17-18	18	17
SPRING	ASM 240 Computer Applications in Biological Systems	Acct 202 Intro. to Managerial Accounting or Elective (if Acct 205 taken)	ASM 202 Agricultural Shop Practices	ASM 409 Agricultural Tractors & Power Units
	Comm 101 Fundamentals of Public Speaking	Econ 202 Principles of Economics	ASM 433 Agricultural Processing Systems	BAE 479 Engineering Design II
	CORE 153-199 Core Discovery Course	Phys 100 Fundamentals of Physics or Phys 111 General Physics I	Biol 102 Biology & Society	Electives Electives—Ag or Tech
	Engl 102 College Writing & Rhetoric	Soil 205/206 Soil Ecosystem/Lab	Stat 251 Principles of Statistics	Elective Elective—Approved
	Math 143 Pre-calculus Algebra & Analytic Geometry	Elective Elective—Humanities or Social Science	Elective Elective—Ag or Tech	Elective Elective—Life Science
	Elective Elective—Ag or Tech		Elective Elective—Approved	
	TOTAL	17	16-17	17

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

TO LEARN MORE
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“The Biological and Agricultural Engineering department works hard to make sure each student is ready for a career in production agriculture after graduating.”

NOLAN MILLS, *agricultural systems management major*