

Agricultural Systems Management

AGRICULTURAL MACHINE SYSTEMS OPTION

Understand, design, and build agricultural machinery.

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

EXPLORING the mechanics of machinery

TAKING A HANDS-ON approach to solving problems

USING YOUR CREATIVITY to develop and test new ideas

This major teaches you about the machinery and machine systems that are vital in agriculture. Learn the mechanics of machinery and develop the skills to design, build, and maintain equipment. Contribute to safer and more efficient machine systems. Use advanced technologies to guide your work. We teach the tools of precision agriculture—such as global positioning systems (GPS), sensors, and GIS information management software.

INSIDE THE CLASSROOM

You'll get extensive in-class and hands-on experience with equipment, machinery, and computer technology. Experiment with tools and equipment in the shop practices lab. Wire connections, switches, and motors in the electric power lab. Shape and work metal in the welding lab. Understand fluids—from water pressure to turbine engines—in the power and machinery lab. Use state-of-the-art design software in the computing lab. Senior year, you will draw on everything you've learned when your team tackles a real-world project: You might develop a new mechanical method for clearing straw and dust from an engine, design a joy stick that controls a combine, or investigate setting up a small on-farm biodiesel manufacturing operation.

OUTSIDE THE CLASSROOM

INTERN. Get practical experiences like these: HAWAIIAN COMMERCIAL & SUGAR COMPANY Analyze machine systems and make recommendations to increase efficiency . . . COORS BREWING COMPANY Repair factory equipment . . . WESTERN STATES EQUIPMENT COMPANY Help manage the shop and the maintenance schedule.

STUDY ABROAD. Deepen your understanding of your major—and the world—in countries like these: INDIA Observe 1,000-year-old farming practices on terraced hillsides . . . FRANCE Learn about equipment used by small wine and cheese producers . . . 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 . . . U.S. BUREAU OF RECLAMATION GRANT Help field test a new type of irrigation system.

GET INVOLVED. Network and have fun. AMERICAN SOCIETY OF AGRICULTURAL AND BIOLOGICAL ENGINEERS Join the ASM branch, meet business leaders and potential

FASTFACT

Our seniors designed a joy stick to control a combine and make it more responsive to changes in direction.

employers, and work with a senior design team to build a ¼-scale tractor for the International Student Design Competition . . . STUDENT IDAHO CATTLE ASSOCIATION Attend seminars and conventions and 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. Salaries start at \$40,000.

Here are a few possibilities:

MACHINE MANAGER. Supervise the machinery and equipment for a farm, ranch, or food product manufacturer. Develop maintenance programs and ways to improve efficiencies of new or existing equipment.

PRODUCT DESIGN TECHNICIAN. Design and test machinery components and equipment for a machine manufacturer.

INDUSTRY REPRESENTATIVE. Work for a manufacturer of farm equipment or industrial machines. Match equipment to clients' needs.

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, take more courses in engineering or business.

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

