

AGNR - AGRICULTURE AND NATURAL RESOURCES

AGNR100 Agriculture Discovery: An Educational Odyssey Exploring Food, Culture, and the Environment (3 Credits)

Explores the history, cultural impact, and current issues of agriculture. Students are exposed to the wide range of professional opportunities associated with the use of plants and animals in the production and processing of food for human consumption. Students learn from Agriculture and Natural Resources (AGNR) faculty and USDA collaborators through lectures, labs and field trips to facilities in the Baltimore-Washington area.

AGNR200 AGNR 2+2 Program Extended Orientation Seminar (1 Credit)

Introduces AGNR 2+2 students to University and "American" life. Assists with their successful transition to the College and Agriculture and Natural Resources and the University of Maryland. Helps students to understand their place in AGNR at to learn about the resources available to them.

Prerequisite: Must be a first semester international student enrolled in the AGNR 2+2 Program.

Restriction: Must be a first year international student enrolled in the College of Agriculture and Natural Resources 2+2 Program.

Additional Information: It is strongly recommended that AGNR 2+2 students take AGNR 200 during the first semester at the University. One class meeting per week. This courses is initiated by International Programs and will be coordinated in conjunction with the College of AGNR.

AGNR230 Artificial Intelligence: Transforming Food, Agricultural, and Environmental Systems (3 Credits)

Artificial intelligence is fundamentally transforming agriculture, food, and environmental sciences, disciplines at the heart of the College of Agriculture and Natural Resources (AGNR). This course introduces students to the core concepts and practical realities of AI within these fields. Through a blend of theory, case studies, and expert seminars, students will examine how AI models (from Large Language Models to computer vision) function. Students will critically evaluate real-world applications, such as precision farming, environmental impact modeling, and veterinary diagnostics. The course will challenge the students to consider both the benefits and drawbacks of this rapidly expanding set of technological tools. By the end of the course, students will possess the foundational literacy to navigate the AI landscape and make informed decisions about integrating these tools into their education and future careers.

Cross-listed with: ENST231.

Credit Only Granted for: AGNR230 or ENST231.

AGNR301 Sustainability (3 Credits)

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

Cross-listed with: PLCY301.

Credit Only Granted for: AGNR301 or PLCY301.

AGNR386 Experiential Learning (3-6 Credits)

Restriction: Permission of AGNR-College of Agriculture & Natural Resources.

Formerly: AGRI386.

AGNR388 Honors Thesis Research (3-6 Credits)

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

Restriction: Must be admitted to AGNR Honors program.

Repeatable to: 6 credits if content differs.

Formerly: AGRI388.

AGNR489 Field Experience (1-4 Credits)

Credit according to time scheduled and organization of the course. A lecture series organized to study in depth a selected phase of agriculture not normally associated with one of the existing programs.

Restriction: Permission of AGNR-College of Agriculture & Natural Resources.

Repeatable to: 4 credits if content differs.

Formerly: AGRI489.

AGNR499 Special Problems (1-3 Credits)

Formerly: AGRI499.