AGRICULTURAL AND LIFE SCIENCES | GENERAL

Not all courses are offered every semester. Refer to the schedule of courses for each term’s specific offerings.

More Info

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

ALS 2410 Challenge 2050: Global Uncertainty 3 Credits
Explores questions in human well-being and sustainability building a foundation for addressing global challenges associated with global population. Transdisciplinary experts lead diverse and innovative discussions, complex adaptive problem solving; and the integration of economic, environmental, food, health, and social system perspectives. Prereq: arrange with advisor and department permission. (S-U)

ALS 2931 Agricultural Honors 1-4 Credits
Various courses offered. (WR) Prereq: refer to the department. WR6

ALS 3030C Urban Agriculture 3 Credits
Work with faculty and guest field experts to explore the concepts, issues, and opportunities for urban agricultural sustainability, and on the development and implementation of demonstrations of community urban agricultural projects. Culminates in a group presentation for campus and community stakeholders. Prereq: sophomore standing.

ALS 3133 Agricultural and Environmental Quality 3 Credits
Analysis of effects of agriculture on environmental quality; emphasis on agricultural wastes and practices; potential for using agricultural systems for disposal of other wastes; effects of pollution on the agricultural environment. (P) General Education - Physical Science

ALS 3153 Agricultural Ecology 3 Credits
Introduces the study of ecology from an agricultural perspective. Emphasizes ecological principles with examples and applications from agriculture.

ALS 3203 PC Use in Agriculture 3 Credits
Introduces PC computer skills, file management, software application, hardware, purchasing one's own PC system. Focus is on the use of computers for preparing documents and presentations.

ALS 3415 Challenge 2050: Developing Tools for Changing the World 3 Credits
The global population is projected to exceed 9 billion by the year 2050. Challenge 2050 requires innovative development of transdisciplinary solutions to complex, global issues. This course explores individual and team-based skills, competencies, and dispositions necessary to addressing the complex adaptive issues surrounding the challenge. Prereq: ALS 2410.

ALS 3923 Honors Orientation 1 Credit
Introduces the CALS honors program and develop the skills needed to complete a creative, scholarly project and an honors thesis. A variety of guest speakers, in-class and outside activities, discussion, writing and oral presentation are used to accomplish the learning objectives. Prereq: must be enrolled in CALS upper-division honors program.

ALS 3940 Challenge 2050: the Experience 3 Credits
Emphasizes trust building, accompaniment, and community development experiences within developing global contexts. Uses immersion experience to gain an understanding for concerns relating to population fluctuation, including issues related to economics, environment, food, health, and social systems. International immersion facilitates applying sustainable practices in developing areas. Prereq: ALS 2410.

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ALS 4937 CALS Leadership Institute Seminar 2  
Discussion-based seminar provides an introduction to group and organizational leadership in local and global contexts. Personal assessment of strengths and further application of developed personal leadership plan to a global vision are included. Prereq: ALS 4936.

ALS 4938 CALS Leadership Institute International Service and Learning Experience  
This seminar focuses on an international service and learning experience as a context for application of course content previously covered in the program. A compilation of documentation supporting leadership growth and reflection serve as closure to leadership institute. Prereq: ALS 4936.

ALS 4941 Full-time Practical Work Experience in Agriculture  
Variable subjects provide content for the study of agricultural topics not offered in other courses. (S-U) Prereq: prior arrangement with advisor and dean's office.

ALS 4950 Challenge 2050: Taking Action  
Through supervised practical training, in conjunction with academic assignments at professional organizations, the Taking Action internship provides the opportunity to professionally examine and engage the global challenges associated with Challenge 2050. Can be repeated with a change in content up to 6 credits. Prereq: maintain GPA of 3.0, must be in good standing and must have completed the Challenge 2050 Global Challenge certificate with 3.0 average.

MCB 4782 Archaea and Biotechnology  
Learn about the evolution, physiology, and molecular biology of archaea, including extremophiles. Examine principles of energy production and biosynthesis in aerobic and anaerobic habitats and explore research that incorporates cutting-edge techniques and biotechnology applications for using archaea to solve real world problems. Prereq: CHM 2211 and either MCB 3020/MCB 3020L or MCB 3023/MCB 3023L.