AG 150: Be a Master Student!
2 Credits

Students explore agricultural issues and research methodologies through
literature review, library searches, field studies, and critical thinking.

Prerequisite: first- or second-semester standing
First-Year Seminar

AG 160: Introduction into Ethics and Issues in Agriculture
3 Credits

This course covers ethics and the social contract to include substantive
ethical theories focusing on rights-based ethical theories (libertarianism
and egalitarian theories) and consequentialist theories (utilitarianism
and axiology). These theories assist in conceptually defining levels
of participation and consent in democracy. This course explores the
circumstances in which rational persons and political groups historically
agree to be bound in collective decision making. The primary focus
by examines four separate ethical themes illustrating why and how
individuals accept a variety of terms. The course highlights philosophical/
ethics related to agriculture issues during the history of the
United States. Issues range from non-interference rights to opportunity
rights dealing with food, fiber, natural resource and environmental issues.

Procedural theory emphasizes the formation of legitimate and defensible
rules rather than ethics. Policy choices are assumed to be legitimate
and defensible as long as individuals follow the rules/procedures for
decision making. The content of this course meshes the procedural
and the substance theories found throughout historical debates in
agriculture communities. The course identifies traditional agrarian
problem identification, policy formation, policy adoption and funding,
program implementation and program evaluation. How ethics figures
historically in agriculture policy processes is applied in a variety of case
studies and debates as well as selected readings. The course includes
an examination of the ethics of when, how and where the policy process
historically influenced agriculture public policies. The course emphasizes
the need to critically think about various points of view expressed by
various conflicting authors.

Cross-listed with: CED 160
General Education: Humanities (GH)
GenEd Learning Objective: Crit and Analytical Think
GenEd Learning Objective: Soc Resp and Ethic Reason

AG 160S: Introduction to Ethics and Issues in Agriculture
3 Credits

Introduce students to the University and College of Ag Sciences preparing
them to succeed. Review ethical theories and issues in American
agriculture. AG 160S Introduction to Ethics and Issues in Agriculture
(3) This course introduces students to contemporary issues, ethical
theories and principles, and the application of critical thinking and
communication skills related to topics in agriculture, renewable natural
resources, and the environment. Additional emphasis will be placed
on developing the skills that help achieve academic success at Penn
State through these speakers and activities. Course content will include
analyzing moral positions based on three ethical theories: normative
ethics, descriptive ethics, and metaethics; and four ethical principles:
beneficence, nonmaleficence, respect for autonomy, and justice. Guest
speakers, field trips and interactive activities, which feature disciplines in
the College of Agricultural Sciences, will supplement the course materials
and enrich the educational experience. In addition, various career and
networking opportunities with internationally acclaimed faculty and staff,
current students, and alumni will be featured.

Prerequisites: first or second-semester standing
General Education: Humanities (GH)

AG 294: Research Project Courses
1-12 Credits/Maximum of 12

Supervised student activities on research projects identified on an
individual or small-group basis.

AG 297: Special Topics
1-9 Credits/Maximum of 9

Formal courses given infrequently to explore, in depth, a comparatively
narrow subject that may be topical or of special interest.

AG 400: Biometry/Statistics in the Life Sciences
4 Credits

Application of statistical techniques to experimental and survey research
in the life sciences.

Prerequisite: 6 credits in the natural sciences

AG 422: Communicating Research in Agricultural Sciences
1 Credits

This course provides opportunities to develop effective communication
skills within the context of scientific research. Students participating
in independent studies with faculty mentors will use their independent
research projects as the subject of a series of exercises that will enhance
their abilities to share scientific ideals and findings with a variety of
audiences including grant writing, poster presentations, and both
technical and non-technical oral presentations about research topics.
This course will prepare students for graduate school and, importantly,
provide students with a set of skills that would be applicable to any
career.

Cross-listed with: FDSC 422
AG 494: Research Project Courses
1-12 Credits/Maximum of 12
Supervised student activities on research projects identified on an individual or small-group basis.

AG 494H: Research Project Courses
1-12 Credits/Maximum of 12
Supervised student activities on research projects identified on an individual or small-group basis.

Honors
AG 495: Internship
1-18 Credits/Maximum of 18
Independent study and supervised field experience related to the student's major. Written and oral critique of activity required.

Prerequisite: approval of proposed assignment by instructor prior to advance registration deadline in semester preceding that semester in which the assignment is to be carried out

Full-Time Equivalent Course
AG 495A: **SPECIAL TOPICS**
1-3 Credits