College of Agriculture and Natural Resources (AGNR)

Upper Division Certificate - International Agriculture & Natural Resources

- Students shall develop effective communication skills and demonstrate the ability to present ideas with clarity to an appropriate audience.
- Students will demonstrate knowledge of policies and/or institutional arrangements (in a global context) relevant to agricultural, environmental, and natural resources.

Department of Animal and Avian Sciences

Bachelor's - Animal Sciences - Animal Care & Management

- Students will be able to identify at least three indicators of good and poor health in one vertebrate species.
- Students will be able to identify at least three signs of normal and abnormal behavior in one vertebrate species.
- Students will demonstrate safe animal handling skills.
- Students will be able to identify anatomical structures.
- Students will demonstrate ability to identify feedstuffs.
- Student will demonstrate ability to identify required nutrients.
- Identification of homeostatic regulation of at least five physiological systems.
- Review research article/publication and write an interpretive summary.
- Identify and obtain scientific review article and write an in-depth paper at a level beyond that presented in lectures and textbook.

Bachelor's - Animal Sciences - Biotechnology

- Students will be able to identify at least three indicators of good and poor health in one vertebrate species.
- Students will be able to identify at least three signs of normal and abnormal behavior in one vertebrate species.
- Students will demonstrate safe animal handling skills.
- Students will be able to identify anatomical structures.
- Students will demonstrate ability to identify feedstuffs.
- Student will demonstrate ability to identify required nutrients.
- Identification of homeostatic regulation of at least five physiological systems.
- Review research article/publication and write an interpretive summary.
- Identify and obtain scientific review article and write an in-depth paper at a level beyond that presented in lectures and textbook.
- Demonstrate ability to use Gene Bank to find a gene and gene product based on its nucleotide sequence.
- Identification of methods of making transgenic animals.

Bachelor's - Animal Sciences - Equine Studies

- Students will be able to identify at least three indicators of good and poor health in one vertebrate species.
- Students will be able to identify at least three signs of normal and abnormal behavior in one vertebrate species.
- Students will demonstrate safe animal handling skills.
- Students will be able to identify anatomical structures.
- Students will demonstrate ability to identify feedstuffs.
- Student will demonstrate ability to identify required nutrients.
- Identification of homeostatic regulation of at least five physiological systems.
- Review research article/publication and write an interpretive summary.

 Identify and obtain scientific review article and write an in-depth paper at a level beyond that presented in lectures and textbook.

Bachelor's - Animal Sciences - Laboratory Animal Mgmt

- Students will be able to identify at least three indicators of good and poor health in one vertebrate species.
- Students will be able to identify at least three signs of normal and abnormal behavior in one vertebrate species.
- Students will demonstrate safe Animal handling skills
- Students will be able to identify anatomical structures
- Students will demonstrate ability to Identify feedstuffs
- Student will demonstrate ability to Identify required nutrients
- Identification of homeostatic regulation of at least five physiological systems
- Review research article/publication and write an interpretive summary
- Identify and obtain scientific review article and write an in-depth paper at a level beyond that presented in lectures and textbook.

Bachelor's - Animal Sciences - Science/Professional

- Students will be able to identify at least three indicators of good and poor health in one vertebrate species.
- Students will be able to identify at least three signs of normal and abnormal behavior in one vertebrate species.
- Students will demonstrate safe animal handling skills.
- Students will be able to identify anatomical structures.
- Students will demonstrate ability to identify feedstuffs.
- Student will demonstrate ability to identify required nutrients.
- Identification of homeostatic regulation of at least five physiological systems.
- Review research article/publication and write an interpretive summary.
- Identify and obtain scientific review article and write an in-depth paper at a level beyond that presented in lectures and textbook.

Bachelor's - Combined Program - Veterinary Science

- Students will be able to identify at least three indicators of good and poor health in one vertebrate species.
- Students will be able to identify at least three signs of normal and abnormal behavior in one vertebrate species.
- Students will demonstrate safe animal handling skills.
- Students will be able to identify anatomical structures.
- Students will demonstrate ability to identify feedstuffs.
- Student will demonstrate ability to identify required nutrients.
- Identification of homeostatic regulation of at least five physiological systems.
- Review research article/publication and write an interpretive summary.
- Identify and obtain scientific review article and write an in-depth paper at a level beyond that presented in lectures and textbook.

Department of Agricultural and Resource Economics

Bachelor's - Agricultural & Resource Economics

- Demonstrate knowledge of economic terms and concepts.
- Ability to draw inferences from data about economic questions.

 Knowledge of policies and institutional arrangements relevant to agricultural, environmental, and resource economics.

Institute of Applied Agriculture

Lower Div Cert - Agricultural Business Management

- Students should demonstrate proficient oral communication skills.
- Students should gain hands-on experience working at a job site that is pertinent to their major. Students should demonstrate an understanding of business practices and practical application of their class work.
- Students should possess the materials and skills needed to conduct an effective job search.
- All IAA students should be able to calculate the correct amount of plant nutrients to apply given a soil recommendation.

Lower Div Cert - Equine Business Management

- Students should demonstrate proficient oral communication skills.
- Students should gain hands-on experience working at a job site that is pertinent to their major. Students should demonstrate an understanding of business practices and practical application of their class work.
- Students should possess the materials and skills needed to conduct an effective job search.
- All IAA students should be able to calculate the correct amount of plant nutrients to apply given a soil recommendation.

Lower Div Cert - Golf Course Management

- Students should demonstrate proficient oral communication skills.
- Students should gain hands-on experience working at a job site that is pertinent to their major. Students should demonstrate an understanding of business practices and practical application of their class work.
- Students should possess the materials and skills needed to conduct an effective job search.
- All IAA students should be able to calculate the correct amount of plant nutrients to apply given a soil recommendation.
- Students will be able to develop an operating budget for a golf or athletic field facility.

Lower Div Cert - Landscape Management

- Students should demonstrate proficient oral communication skills.
- Students should gain hands-on experience working at a job site that is pertinent to their major. Students should demonstrate an understanding of business practices and practical application of their class work.
- Students should possess the materials and skills needed to conduct an effective job search.
- All IAA students should be able to calculate the correct amount of plant nutrients to apply given a soil recommendation.

Lower Div Cert - Ornamental Horticulture

- Students should demonstrate proficient oral communication skills.
- Students should gain hands-on experience working at a job site that is pertinent to their major. Students should demonstrate an understanding of business practices and practical application of their class work.
- Students should possess the materials and skills needed to conduct an effective job search.

 All IAA students should be able to calculate the correct amount of plant nutrients to apply given a soil recommendation.

Lower Div Cert - Turfgrass Management

- Students should demonstrate proficient oral communication skills.
- Students should gain hands-on experience working at a job site that is pertinent to their major. Students should demonstrate an understanding of business practices and practical application of their class work.
- Students should possess the materials and skills needed to conduct an effective job search.
- All IAA students should be able to calculate the correct amount of plant nutrients to apply given a soil recommendation.

Environmental Science and Technology

Bachelor's - Environmental Science & Policy

- ENSP students will be able to demonstrate depth of knowledge and intellectual competence in an area of concentration related to ecosystem functioning and/or policy development or implementation.
- Students will be able to document readiness for full-time employment and/or graduate school.

Bachelor's - Environmental Science & Technology

- Students will understand and apply basic mathematical reasoning.
- Students will exhibit understanding in both social and natural science.
- Students will communicate clearly and effectively in writing and speech.

Bachelor's - Natural Resources Management - joint program

- Students will understand and apply basic mathematical reasoning.
- Students will exhibit understanding in both social and natural science.
- Students will communicate clearly and effectively in writing and speech.

Department of Nutrition and Food Sciences

Bachelor's - Nutrition and Food Science

- Competency in integrating laboratory skills into analysis of food.
- Competency in assessing the nutritional status of a patient and in developing an appropriate nutrition treatment plan for the patient.

Post-Baccalaureate Certificate - Dietetic Internship

- Demonstrate proficiency in 37 ADA mandatory and 7 specialty dietetic profession competencies.
- Competency in technology communication tools.
- Demonstrate website proficiency.
- Demonstrate critical thinking, reasoning and research skills.

 Demonstrate appropriate oral and written communication skills in dealing with persons of limited literacy and economic means.

Department of Plant Science and Landscape Architecture

Bachelor's - Agriculture Sciences & Technology

- Develop technical and knowledge-based skills in the required areas of study.
- Use technical and basic learned knowledge to collaborate, solve problems and then articulate conclusions.
- Develop effective communication skills and demonstrate the ability to present ideas with clarity to an appropriate audience
- Connect and build relationships with external groups in the appropriate fields of study.

Bachelor's - Landscape Architecture

- Demonstrate an understanding of the design process used in landscape architectural practice.
- Demonstrate the ability to communicate through visual literacy using hand graphics and computer technology.
- Connect and build relationships with external groups in the appropriate fields of study.

Bachelor's - Plant Sciences

- Develop technical and knowledge-based skills in the required areas of study.
- Use technical and basic learned knowledge to collaborate, solve problems and then articulate conclusions.
- Develop effective communication skills and demonstrate the ability to present ideas with clarity to an appropriate audience.
- Connect and build relationships with external groups in the appropriate fields of study.