

## ASEC Suggested Foundational Courses for Master's and Doctoral Study

This is an incomplete list of courses that students may consider taking. Check with your advisor about specific courses to add to your Plan of Study.

**ASEC COURSES:** *Masters choose **3**- PhD choose **5-7** of the following (May include credits earned from ASEC Master's degree)*

ASEC 52000	Foundations of Agricultural Education, Extension, and Communication
ASEC 53100	Global Learning for Agriculture, Food and Natural Resources
ASEC 54000	Program Development in Agricultural and Extension Education
ASEC 54100	Program Development in School-Based Agricultural Education
ASEC 54200	Introduction to Agricultural Biotechnology for Educators
ASEC 54500	Teaching STEM Through Agriculture, Food and Natural Resources
ASEC 54600	Communication and Issues Engagement for Agricultural Professionals
ASEC 54800	Communicating Science to the Public
ASEC 55100	International Engagement and Development Strategies
ASEC 55500	Principles of Extension Education
ASEC 56500	Principles of Adult Education
ASEC 58200	Introduction to the Application Inferential Statistics
ASEC 58500	Science Communication
ASEC 62000	Adolescent Development in Context
ASEC 63000	Theories of Learning and Development
ASEC 64000	Courses of Study in Agricultural Education Programs
ASEC 64200	Seminar in Agricultural and Extension Education
ASEC 64300	Current Issues in Agricultural and Extension Education
ASEC 64400	Graduate Seminar – <b>Required</b>
ASEC 68100	Research design for Social Scientists

*See graduate advisor for using one or more of the following on a plan of study:*

ASEC 59000	Special Problems
ASEC 59100	Special Topics
ASEC 59500	Internship in Agricultural and Extension Education

*Theoretical Foundations (Choose **two** of the following):*

AMST 65000	Critical Approaches in Qualitative Inquiry
COM 41900	Judgement and Decision Making
COM 50300	Cross Cultural Communication
COM 68200	Online Social Interactions
EDCI 53100	Learning Theories and Instructional Design

EDCI 58500	Multicultural Education
EDCI 61800	Gender and Culture in Science Education
EDPS 53000	Advanced Education Psychology
EDPS 53600	Achievement Motivation & Performance
EDST 59100	Educational Policymaking & Social Justice
EDUC-W 505	African American Psychology
ENE 50500	Theories of Dev & Engineering Thinking
HK 57600	Theoretical Foundations of Health Behavior

*Statistics (Master's choose **One** of the following:)*

STAT 50100	Experimental Statistics I
STAT 50300	Statistical Methods for Biology
STAT 51100	Statistical Methods

*Statistics (PhD choose **one** of the following):*

STAT 50200	Experimental Statistics II (if quantitative research)
STAT 51200	Applied Regression Analysis (if quantitative research)

*Research Design and Methods Quant (M.S choose **one**; PhD choose **one** of the following):*

COM 58200	Descriptive/Experimental Research in Communication (if quantitative research)
PSY 60100	Correlation and Experimental Design (if quantitative research)

*Research Methods Qual (M.S choose **one**; PhD choose **one** of the following):*

COM 58400	Historical/Critical Research in Communication (if qualitative research)
COM 58500	Qualitative Methods in Communication Research (if qualitative research)
EDCI 61600	Advanced Qualitative Research Methods in Education (if qualitative research)

*Research, Assessment, and Evaluation (PhD Choose **one** of the following):*

EDPS 53100	Introduction to Measurement and Evaluation
EDPS 53200	Measuring Educational Achievement
EDPS 53300	Introduction to Educational Research I: Methodology
HDFS 61700	Advanced Research Methods in Child and Family Study
SOC 68000	Advanced Social Research Methods

*Research Competency (Masters)*

EDPS 53300	Introduction to Educational Research I: Methodology
COM 50000	Introduction to Graduate Studies in Communication
FNR 58000	Research Methods for Natural Resource Social Science
SOC 58000	Methods of Social Research
SOC 58300	Applications of Social Research Methods
TECH 69700	Qualitative Research Methods in Technology Studies
ASEC 69800	Research M.S. Thesis (6 credit hours minimum)

*Inference (PhD)*

EDPS 63000	Research Procedures in Education
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*Dissertation: (12 credit hours minimum required for PhD)*

ASEC 69900      Research Ph.D. Theses

**DEPARTMENT OF AGRICULTURAL SCIENCES EDUCATION AND COMMUNICATION  
COURSE INFORMATION**

**MASTER'S and PhD PROGRAMS**

**Master's Degree:** Students earning a master's degree in Agricultural Sciences Education and Communication Graduate Program will gain a firm foundation in theory, critically analyze outcomes of education and communication processes, and learn about strategies used to influence how people learn and make decisions. The ASEC master's degree strikes a balance between theory and practice. Students sharpen professional skills while exploring the disciplines of educational psychology, communication, and sociology in the context of agricultural and life sciences. Students funded by assistantships or fellowships are expected to complete a thesis. A **Non-Thesis Master's degree** does not require research or the completion of a thesis. Non-Thesis Master's students will be required to complete an end of program project as defined by their committee.

Students may pursue Indiana teacher licensure in conjunction with the completion of this degree.

Most students complete a master's degree in 2 years.

Thesis	Non Thesis	Credit hours	Class
✓	✓	3	Statistics (quantitative) course
✓	✓	3	Research method (qualitative research methods evaluation course)
✓	✓	6	Theoretical Foundational courses (see Suggested Foundational Course list)
✓	✓	8-11	ASEC courses (independent study courses included)
✓	✓	1	1 cr. Hour ASEC 644 seminar
✓	✓	6	Elective course work (related field of study)
✓	--	6	ASEC 698 Research Master's Thesis
33 Cr. Hrs.	30 Cr. Hrs.		

**Doctoral Degree:** Students earning a doctoral degree in Agricultural Sciences Education and Communication Graduate Program will develop a comprehensive foundational grounding in the historical, philosophical, and theoretical tenets of the field. ASEC doctoral students typically have professional career experiences in education, communication, industry, or non-profit organizations. Through structured course work, independent study, thoughtful mentoring and original research, they develop expertise in designing and evaluating educational and communication strategies for youth and adults. Students are encouraged to develop in-depth expertise in a specialty of choice such as technology applications in youth education, risk communication, life science education, or engagement of underserved populations. Doctoral students showcase their scholarship and contribute to the literature through a dissertation that focuses on education or communication in the context of agriculture, youth, families or communities. Doctoral programs require 90 graduate credits beyond the baccalaureate degree. Completion of the doctoral degree typically requires 3 years beyond the master's degree.

PhD.	Credit Hours	Class
✓	3	Philosophical, Historical, Social Cultural course
✓	3	Research Assessment and Evaluation course
✓	3	Education/Developmental Psychology course
✓	12	Research Competency, Qualitative/Quantitative Research Methods & Statistics courses
✓	15	ASEC Courses related to major
✓	12	Elective courses related to field of study
✓	12	ASEC 699 Research PhD(Dissertation)
90 Cr. Hrs.	30	Credit hours from Masters' degree (some of these credits may be used in above categories. Total credits must equal 90.)