



COURSE PROGRAM STRUCTURE/STUDENT CHECKLIST

PROGRAM OF STUDY: Doctor of Philosophy (PHD/ePhD) – International Human Rights and Humanitarian Studies PhD/ePhD- Environmental Science & Management PhD/ePhD – Agronomy; PhD/ePhD – Environmental Studies PhD/ePhD – Agribusiness Management PhD/ePhD – Agribusiness Management & Policy PhD/ePhD – Industrial Psychology & Leadership; PhD/ePhD – International Relations & Diplomacy PhD/ePhD – International Peace & Dispute Resolution PhD/ePhD – Criminal Justice Systems PhD/ePhD – Horticulture PhD – Animal Science; PhD/ePhD – Development and Leadership

Students enrolled in Accelerated semesters option can complete their degree in 2 – 3 years by enrolling in 4 academic semesters during the year (Year 1 and year 2 academic requirements can be completed in 1 year – see structure below). Students enrolled in the standard semester’s option can complete their degree in 3 – 4 years or more but not more than 6 years. **Note: Most students in the accelerated semesters option complete the doctoral program in 2 ½ years.**

DOCTORAL (PHD/EPHD) PROGRAM – FIRST YEAR			
Course No.	Course	Credit(s)	Grade
DOC 800	Introduction to Doctoral Studies	1	
DOC 805	Research Methods – Design & Analysis	3	
DOC 810	Specialized Topic 1 in Students Area of Study	9	
DOC 830	Quantitative Research	3	
DOC 865	Specialized Topic IV in Students Area of Study	9	
Total		25	

DOCTORAL (PHD/EPHD) PROGRAM – SECOND YEAR			
Course No.	Course	Credit(s)	Grade
DOC 825	Qualitative Research	3	
DOC 865	Specialized Topic II in Students Area of Study	9	
DOC 835	Strategic Planning; Team Coordination, Cooperation and Collaboration	3	
DOC 870	Specialized Topic III in Students Area of Study	9	
Total		24	

Note: The University encourages students to engage in their third year in a capstone learning experience: advanced seminars, clinical practice, and writing projects that call on students to use the full extent of their knowledge, skills, and methodological tools in a field to address the most interesting and complicated legal problems of today.

DOCTORAL (PHD/EPHD) PROGRAM – ES&M/DES/DAM			
Third year Students may elect to take any of the courses below or take additional courses from the courses listed below. Interested students should confer with their mentors before making such decision.			
Course No.	Course	Credit(s)	Grade
ESM 6088	Applied Doctoral Studies in Environmental Science & Management	6	
ESM 6090	Environmental Economics in Leadership	6	
ESM 6095	Global Environment Change & Environmental Justice	6	
ESM 7000	Environmental Politics & Policy	6	
DES 7005	Applied Doctoral Studies in Environmental Studies	6	
DES 7010	Wildlife Ecology & Management	6	
DES 7030	Soil, Water, & Land Resources	6	
DAM 7035	Environmental Technology and Human Affairs	6	
DAM 7040	Culture and the Environment	6	
DAM 7045	Environmental Education & Interpretation	6	

DOCTORAL (PHD/EPHD) PROGRAM – IHR&HS			
Course No.	Course	Credit(s)	Grade
IHR 6060	Applied Doctoral Studies in International Human Rights & Humanitarian Studies	6	
IHR 6065	International Humanitarian Law	6	
IHR 6070	Human Rights Law	6	
IHR 6075	Public Health in Humanitarian Crises	6	
IHR 6080	Global Health and Humanitarianism	6	
IHR 6085	Leadership in Human Rights & Humanitarian Studies	6	
IHR 6086	Sustainable Development in Human Rights & Humanitarian Action	6	

DOCTORAL (PHD/EPHD) PROGRAM – THIRD YEAR			
Course No.	Course	Credit(s)	Grade
DOC 840	Teaching/Training	1	
DOC 885	Advanced Specialized Topics in the Students' area of Study	4	
Total		5	

DOCTORAL (PHD/EPHD) PROGRAM – FOURTH YEAR			
Course No.	Course	Credit(s)	Grade
DOC 845	Independent Field Study/Practicum	1	
DOC 890	Advanced Specialized Topics in the Students' area of Study	5	
DOC 000	Concept Paper	0	
DOC 895	Dissertation Proposal	3	
DOC 900	Dissertation (Final Chapters/Defense)	12	
Total		21	

DOCTORAL (PHD/EPHD) PROGRAM – IR&D/IP&DR			
Course No.	Course	Credit(s)	Grade
IRD 7066	Applied Doctoral Studies in International Relations & Diplomacy	6	
IRD 7067	Foundation of International Relations	6	
IRD 7068	International Law and Diplomacy	6	
IRD 7069	U.S. and International Government	6	
IRD 7070	U.S. and International Politics	6	
IRD 7071	U.S. and International Finance	6	
IRD 7072	U.S. and Global Trade Law	6	
IRD 7073	International Political Systems	6	
IPD 7074	Applied Doctoral Studies in International Peace & Dispute Resolution	6	
IPD 7075	Economics of Violence and Peace	6	
IPD 7076	Immigration & Environmental Law	6	
IPD 7077	The United Nations and World Politics	6	
IPD 7078	Alternative Dispute and Resolution	6	
IPD 7079	Worker's Compensation Law	6	
IPD 7080	Comparative Peace Processes	6	
IPD 7081	Negotiation Analysis and Skills	6	
IPD 7082	Democracy and Political Change Reform	6	

DOCTORAL (PHD/EPHD) PROGRAM – AM&P/IP&L			
Third year Students may elect to take any of the courses below or take additional courses from the courses listed below. Interested students should confer with their mentors before making such decision.			
Course No.	Course	Credit(s)	Grade
AMP 7046	Applied Doctoral Studies in Agribusiness Management and Agribusiness Management & Policy	6	
AMP 7047	Sustainable Agriculture	6	
AMP 7048	Agricultural Leadership & Communication	6	
AMP 7048	Agricultural Science & Technology	6	
AMP 7050	U.S. and International Agriculture & Natural Resources	6	
IPL 7051	Applied Doctoral Studies in Industrial Psychology & Leadership	6	
IPL 7052	Industrial/Organizational Psychology	6	
IPL 7053	Leadership and Management	6	
IPL 7054	Organizational Development	6	
IPL 7055	Recruitment, Selection, and Training	6	

DOCTORAL (PHD/EPHD) PROGRAM – CJS			
Third year Students may elect to take any of the courses below or take additional courses from the courses listed below. Interested students should confer with their mentors before making such decision.			
Course No.	Course	Credit(s)	Grade
CJS 7056	Applied Doctoral Studies in Criminal Justice Systems	6	
CJS 7057	Cybersecurity Systems	6	
CJS 7058	Policy & Surveillance	6	
CJS 7059	Corporate and Community Crimes	6	
CJS 7060	Artificial Intelligence in Criminal Justice Systems	6	
CJS 7061	Crime and Forensics	6	
CJS 7062	Juvenile Delinquency	6	
CJS 7063	National Security, Terrorism, and Prevention	6	
CJS 7064	Advance Criminology	6	
CJS 7065	Constitutional Law in the Criminal Justice System	6	

AGRIBUSINESS PROGRAM – AGRIBUSINESS MANAGEMENT

This program is designed to produce marketable graduates that are research-oriented and knowledgeable in bridging the gaps between policy and practice in agribusiness; agribusiness operations and technology and maintaining a competitive advantage in public and private agribusiness activities.

AGRIBUSINESS PROGRAM – AGRONOMY

This program is designed to meet the needs of a diverse student body whose unifying characteristic is an interest in the application of biological principles to the solution of problems in crop production and resource management. The program aims to foster a sense of community among the students and to provide them with a breadth of knowledge about agronomic and horticultural principles and how they are used in a variety of practices.

DOCTORAL (PHD/EPHD) PROGRAM – AGRIBUSINESS MANAGEMENT

Course No.	Course	Credit(s)	Grade
AGB 7066	Introduction to Doctoral Studies	6	
AGB 7067	Advanced Agribusiness Research	6	
AGB 7068	Advanced Statistics with Computer Applications	6	
AGB 7069	Advanced Agribusiness Management	6	
AGB 7070	Strategic Marketing Management	6	
AGB 7071	Methods of Research I (Quantitative)	6	
AGB 7072	Methods of Research II (Qualitative)	6	
AGB 7073	Strategic Human Resource Management	6	
AGB 7074	Agribusiness Operations Management	6	
AGB 7075	Innovative and Integrative Arrangements in Managing Agribusiness Enterprises	6	
AGB 7077	Econometrics for Agribusiness	6	
AGB 7078	Agribusiness Analysis and Forecasting	6	
AGB 7079	Environment of Agribusiness	6	
AGB 7080	Advanced Agribusiness	6	
AGB 7081	Food Security Policy Formulation and Implementation	6	
AGB 7082	Financial Analysis for Agribusiness Firms	6	
AGB 7083	Theory and Practice of Entrepreneurship	6	
AGB 7084	Technology Commercialization and Technopreneurship	6	
AGB 7085	E-Commerce and Online Business Management	6	

DOCTORAL (PHD/EPHD) PROGRAM – AGRONOMY

Third year Students may elect to take any of the courses below or take additional courses from the courses listed below. Interested students should confer with their mentors before making such decision.

Course No.	Course	Credit(s)	Grade
AGR 7046	Introduction to Doctoral Studies	6	
AGR 7047	Current Trends in Agriculture	6	
AGR 7048	Research Perspectives in Agriculture	6	
AGR 7049	Applied Multivariate Modeling in Agricultural and Environmental Sciences	6	
AGR 7050	Advanced Ecological Agriculture	6	
AGR 7051	Design and Assessment of Farming Systems	6	
AGR 7052	Methods of Research I (Quantitative)	6	
AGR 7053	Methods of Research II (Qualitative)	6	
AGR 7054	Physiology of Herbicides	6	
AGR 7055	Herbicides-Soil Interaction	6	
AGR 7056	Advanced Plant Breeding	6	
AGR 7057	Crop Evolution	6	
AGR 7058	Stress Physiology of Plants	6	
AGR 7059	Molecular Plant Breeding	6	
AGR 7060	Seed Science, Technology and Program Development	6	
AGR 7061	Agribusiness Operations Management	6	
AGR 7062	Innovative and Integrative Arrangements in Managing Agribusiness Enterprises	6	
AGR 7063	Econometrics for Agribusiness	6	

AGRIBUSINESS PROGRAM – HORTICULTURE

This program is designed to meet the needs of a diverse student body whose unifying characteristic is an interest in the application of biological principles to the solution of problems in crop production and resource management. The program aims to foster a sense of community among the students and to provide them with a breadth of knowledge about agronomic and horticultural principles and how they are used in a variety of practices.

AGRIBUSINESS PROGRAM – ANIMAL SCIENCE

The program is designed to harness the academic, skills, and competencies of graduate students in research, extension, and the development of professional in the academe and industries. The program encompasses the scientific disciplines underpinning the management of farm, companion and captive animals.

DOCTORAL (PHD/EPHD) PROGRAM – HORTICULTURE

Course No.	Course	Credit(s)	Grade
HLC 7066	Introduction to Doctoral Studies	6	
HLC 7067	Current Trends in Agriculture	6	
HLC 7068	Research Perspectives in Agriculture	6	
HLC 7069	Applied Multivariate Modeling in Agricultural and Environmental Sciences	6	
HLC 7070	Advanced Ecological Agriculture	6	
HLC 7071	Design and Assessment of Farming Systems	6	
HLC 7072	Methods of Research I (Quantitative)	6	
HLC 7073	Methods of Research II (Qualitative)	6	
HLC 7074	Post Harvest Physiology of Perishable Crops	6	
HLC 7075	Applied Vegetable Crop Physiology	6	
HLC 7077	Applied Fruit Crops Physiology	6	
HLC 7078	Reproductive Crop Physiology	6	
HLC 7079	Physiology and Biochemistry of Endogenous Growth Regulators	6	
HLC 7080	Crop Seed Physiology	6	
HLC 7081	Plant Morphogenesis	6	
HLC 7082	Advanced Plant Breeding	6	
HLC 7083	Crop Evolution	6	
HLC 7084	Stress Physiology of Plants	6	

DOCTORAL (PHD/EPHD) PROGRAM – ANIMAL SCIENCE

Third year Students may elect to take any of the courses below or take additional courses from the courses listed below. Interested students should confer with their mentors before making such decision.

Course No.	Course	Credit(s)	Grade
ANS 7046	Introduction to Doctoral Studies	6	
ANS 7047	Current Trends in Agriculture	6	
ANS 7048	Research Perspectives in Agriculture	6	
ANS 7049	Applied Multivariate Modeling in Agricultural and Environmental Sciences	6	
ANS 7050	Advanced Ecological Agriculture	6	
ANS 7051	Design and Assessment of Farming Systems	6	
ANS 7052	Methods of Research I (Quantitative)	6	
ANS 7053	Methods of Research II (Qualitative)	6	
ANS 7054	Advances in Swine Production	6	
ANS 7055	Advanced Courses in Cattle and Goat Production	6	
ANS 7056	Advanced Poultry Production	6	
ANS 7057	Conservation of Grass and Forage Crop	6	
ANS 7058	Advanced Course in Meats	6	
ANS 7059	Artificial Breeding of Farm Animals	6	
ANS 7060	Advanced Animal Breeding	6	
ANS 7061	Advanced Animal Nutrition	6	
ANS 7062	Advances in Dairy Production	6	
ANS 7063	Dairy Products Processing	6	
ANS 7064	Quality Control of Dairy Products	6	

AGRIBUSINESS PROGRAM – AQUACULTURE

The program is designed to train up researchers in aquaculture to be able to conduct and lead research and innovation in research departments in both the private sector on improvements in the production of aquatic organisms.

AGRIBUSINESS PROGRAM – ORGNIZATIONAL DEVELOPMENT AND LEADERSHIP

The program is designed to harness the academic, skills, and competencies of graduate students in research, extension, and the development of professional in the academia and industries. The program encompasses the scientific disciplines underpinning the organizational management, leadership and organizational change.

DOCTORAL (PHD/EPHD) PROGRAM – AQUACULTURE			
Course No.	Course	Credit(s)	Grade
AQU 7066	Introduction to Doctoral Studies	6	
AQU 7067	Current Trends in Agriculture	6	
AQU 7068	Research Perspectives in Agriculture	6	
AQU 7069	Applied Multivariate Modeling in Agricultural and Environmental Sciences	6	
AQU 7070	Advanced Ecological Agriculture	6	
AQU 7071	Statistics and Study Design for Fisheries Science	6	
AQU 7072	Methods of Research I (Quantitative)	6	
AQU 7073	Methods of Research II (Qualitative)	6	
AQU 7074	Advances in Aquaculture Production Systems	6	
AQU 7075	Advances in Seed Production and Hatchery Management	6	
AQU 7077	Aquaculture System Management	6	
AQU 7078	Aquaculture Site and Operational Assessment	6	
AQU 7079	Fish and Shellfish Physiology and Endocrinology	6	
AQU 7080	Breeding & Culture of Ornamental Fishes	6	
AQU 7081	Engineering of Water Management for Aquaculture	6	
AQU 7082	Fisheries Resource Assessment Strategies	6	
AQU 7083	Legal Aspects of Fisheries Resource Management	6	
AQU 7084	Fisheries Policy and Planning	6	

DOCTORAL (PHD/EPHD) PROGRAM ORGANIZATIONAL DEVELOPMENT AND LEADERSHIP			
Third year Students may elect to take any of the courses below or take additional courses from the courses listed below. Interested students should confer with their mentors before making such decision.			
Course No.	Course	Credit(s)	Grade
ODL 7046	Introduction to Doctoral Studies	6	
ODL 7047	Foundations of Leadership Theory	6	
ODL 7048	Socio-Cultural Dynamics, Morality, & Diversity in the Workplace	6	
ODL 7049	Spirituality and Ethics of Leadership	6	
ODL 7050	Leadership, Creativity, Innovation, and Change	6	
ODL 7051	Methods of Research I (Quantitative)	6	
ODL 7052	Methods of Research II (Qualitative)	6	
ODL 7053	Strategic Human Resource Management	6	
ODL 7054	Advanced Seminar: The Leader as a Coach	6	
ODL 7055	Advanced Seminar: Leading Organizational Change	6	
ODL 7056	Advanced Seminar: Social Organizational Psychology	6	
ODL 7057	Leadership and Organizational Cultures	6	
ODL 7058	Current Issues in Global Issues in Industrial and Organizational Psychology	6	
ODL 7059	Advanced Research on Public Policy Implementation	6	
ODL 7060	Cultures and Strategic Leadership in the Bureaucracy	6	
ODL 7061	Management of Corporate Culture	6	
ODL 7062	Labor Law and Social Legislations	6	
ODL 7063	Human Resource Management Policy Formulation	6	

**DOCTORAL (PHD/EPHD) PROGRAM
ENVIRONMENTAL SCIENCE AND MANAGEMENT**

Course No.	Course	Credit(s)	Grade
ESM 6088	Applied Doctoral Studies in Environmental Science & Management	6	
ESM 6090	Environmental Decision-Making in Management	6	
ESM 6095	Global Environment Change & Environmental Policies	6	
ESM 7000	Chemistry of Environmental Exposures	6	
ESM 7001	US and International Environmental Laws and Policies	6	
ESM 7002	Environmental Risk Assessment and Management	6	
ESM 7003	Advanced Environmental Policy Making Science I & II: A Study of Practical Cases	6	
ESM 7004	Data Science and Machine Learning for Environmental Leadership	6	
ESM 7005	Artificial Intelligence in Environmental Management	6	
ESM 7006	Systems Thinking in Environmental Management	6	
ESM 7007	Principles of Environmental Planning	6	
ESM 7008	Agricultural Leadership	6	
ESM 7009	Advanced Implementation of Sustainable Principles	6	
ESM 7010	Sustainable Electric Energy Conversion	6	
ESM 7011	Ecosystem Management	6	
ESM 7012	Industrial Pollution Prevention	6	
ESM 7013	Solving Big World Challenges	6	
ESM 7014	Economics of Energy and Resources	6	