

College of Agricultural Sciences and Natural Resources
Bachelor of Science Degree in Plant Biology-Ecology and Management Option
3+1 Transfer Program with Wayne State College

APPENDIX 1

UNL			Wayne State College		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.					
ACE Outcome 1					3
JGEN 120	Basic Business Communication	3	BUS 208	Business Communication	3
ENGL 150	Writing & Inquiry	3	ENG 102	Composition Skills	3
ENGL 254	Writing & Communities	3	ENG 200	Expository Writing	3
ACE Outcome 2					3
COMM 109	Fundamentals of Human Communication	3	CNA 100	Principles of Human Communication	3
COMM 209	Public Speaking	3	CNA 252	Public Address	3
ACE Outcome 3 (both courses are required)					8
STAT 218	Introduction to Statistics	3	MAT 180	Applied Probability and Statistics	3
MATH 106	Calculus I	5	MAT 140	Calculus I	5
ACE Outcome 4 and Biological Sciences (all courses are required)					43
BIOS 109	General Botany	4	BIO 210	Experimental Plant Science	4
AGRO 315	Genetics	4	BIO 320	Molecular Genetics	4
¹ BIOS 207/BIOS 220	Ecology and Evolution/Principles of Ecology	4	BIO 325	Ecology	4
BIOC 321/L	Elements of Biochemistry and Lab	4	CHE 326	Biochemistry I	4
CHEM 109	General Chemistry I	4	CHE 106	General Chemistry I	4
CHEM 110	General Chemistry II	4	CHE 107	General Chemistry II	4
CHEM 251/253	Organic Chemistry I and Lab	4	CHE 314	Organic Chemistry I	4
LIFE 120/L	Fundamentals of Biology I and Lab	4	BIO 110	Biology Concepts	4
² LIFE 121/L & BIOS 472	Fundamentals of Biology II and Lab and Evolution	7	BIO 200 & 425	Zoology and Evolution	7
PHYS 141	Elements of General Physics I	4/waive 1	PHYS 201/321	General Physics I/Physics Laboratory I	4
Select no more than one course from each of the following 5 areas, except where noted, for a total of 15 hrs.					15
ACE Outcome 5					3
HIST 201	America to 1877	3	HIS 180	American Experience I	3
HIST 202	America after 1877	3	HIS 181	American Experience II	3
PHIL 101	Introduction to Philosophy	3	PHI 101	Introduction to Philosophy	3
ACE Outcome 6					3
ECON 211	Principles of Macroeconomics	3	ECO 202	Principles of Macroeconomics	3
ECON 212	Principles of Microeconomics	3	ECO 203	Principles of Microeconomics	3
ACE Outcome 7					3
DRAW 101	Beginning Drawing	3	ART 110	Drawing I	3
AHIS 101	Cave Paintings To Cathedrals	3	ART 344	Art History I	3
AHIS 102	Renaissance To Modern Art	3	ART 345	Art History II	3
ENGL 252	Introduction to Writing of Fiction	3	ENG 203	Fiction Workshop	3
ENGL 253	Introduction to Writing of Poetry	3	ENG 202	Poetry Workshop	3
THEA 112G	Introduction to Theatre	3	CNA 101	Introduction to Theatre	3
ACE Outcome 8					3
ECON 211	Principles of Macroeconomics	3	ECO 202	Principles of Macroeconomics	3
ECON 212	Principles of Microeconomics	3	ECO 203	Principles of Microeconomics	3
POLS 100	Power and Politics In America	3	POS 100	American National Government	3
PHIL 101	Introduction to Philosophy	3	PHI 101	Introduction to Philosophy	3
PHIL 106	Philosophy & Current Issues	3	PHI 105	Ethics & Values	3
CSCE 230	Computer Organization	3	CSC 320	Computer Organization and Architecture	3
ACE Outcome 9					3
GEOG 272	Geographical World Regions	3	GEO 120	World Regional Geography	3
GEOG 140	Introduction to Human Geography	3	GEO 300	Human Geography	3
HIST 120	World History To 1500	3	HIS 120 or HIS 170	World History or World Civilization I	3
HIST 121	World History Since 1500	3	HIS 171	World Civilization II	3
PHIL 106	Philosophy & Current Issues	3	PHI 105	Ethics & Values	3
POLS 160	International Relations	3	POS 110	Introduction to World Politics	3
ANTH 110	Introduction To Anthropology	3	SOC 110	Introduction to Anthropology	3
SOCI 201	Social Problems	3	SOC 220	Social Problems	3
SOCI 226	Families And Society	3	SOC 415	The Family	3
Outcome 10 - Must be taken at UNL					

Ecology and Management Courses:						
Earth Sciences:						7
METR 100	Weather & Climate	4	EAS 110	Introduction to Meteorology	4	
GEOG 412	Intro to Geographic Information Systems	4/waive 1 cr.	GEO 430	Geographic Information Systems	3	
Biology:						3
³ NRES 211	Introduction to Conservation Biology	3	BIO 345	Conservation Biology	3	
Career Experience and Independent Study/Current Project						5
⁴ AGRO 295	Internship in Agronomy	1	BIO 397	Internship Program	1	
⁴ AGRO 496	Independent Study	1	BIO 470	Research Project	1	
Elective		1	BIO 469	Senior Seminar in Biology	1	
Elective		2	BIO 370	Introduction to Research	2	
Free Electives: (take no more than 6 credits and credits can come from any subject)		3				3
Total Credits at UNL		90	Total Credits from Wayne State College			90
NOTE: UNL will only accept 90 semesters hours.						

Educational Coursework to be taken at UNL		
Summer Term (can be taken anytime during the 3 years at WSC)		
⁵ AGRO 153	Soil Resources	4
Total		4
Fall Term		
AGRO 442	Wildland Plants	3
AGRO 444	Ecosystem Monitoring and Assessment	3
Ecology & Mgmt Elective		3
AGRO 92	Plant Biology Portfolio and Assessment	0
Free Elective related to Ecology and Management		3
Total		12
Spring Term		
AGRO 403, BIOS 457 or NRES 454 (ACE 10)	Scientific Writing & Communication, Ecosystem Ecology or Ecological Interactions	3-4
AGRO 245	Introduction to Grassland Ecology and Management	3
AGRO 325	Introductory Plant Physiology	4
Free Elective related to Ecology and Management		3-4
Total		14
Grand Total of Educational Coursework Taken at UNL		30

Total Hours of Coursework Transferred from Wayne to UNL	90
Total Hours of Coursework Taken at UNL	30
Total Hours to Earn a Bachelor of Science in Plant Biology	120

¹BIO 325 will substitute for BIOS 207/BIOS 220

²BIO 200 and 434 will substitute for LIFE 121/L; BIO 425 is a direct equivalent to BIOS 47.

³BIO 345 will substitute for NRES 211

⁴Students are required to submit a contract for approval to the Plant Biology Steering Committee at UNL BEFORE the experience and/or independent study occurs.

⁵AGRO 153 is a pre-requisite and must be taken before coming to UNL; offered online.