

Associate of Science in Pre-Professional Studies to a Bachelor of Science in Biology

Key:

Key: **Bold Courses = count toward AU Core**

Underlined Courses = count toward AU Major

SUGGESTED SEQUENCE AT NORTH CENTRAL STATE COLLEGE		
Semester One	Equivalencies	16 Credits
BIOL 1230 Biology I OR GEOL 1010 Physical Geology	BIO 201 Molecular & Cellular Basis of Life (NCS: AU Core 1 & major) (If planning a degree in Biology at AU, take BIOL 1230 NOT GEOL)	4
CISS 1020 Digital Literacy and Applications	MIS 221 Information Technology	3
COMM 1010 Speech	COM 101 Human Communication (COM: AU Core 2)	3
ENGL 1010 English Comp I	ENG 101 English Comp I (CP1: AU Core 3)	3
PSYC 1010 Intro to PSYC OR SOCY 1010 Intro to SOC	PSYC 101 General PSYC OR SOC 111 Principles of SOC (Choose either to count as SS: AU Core 4)	3 (3)
Semester Two		17 Credits
BIOL 1231 Biology II OR GEOL 1030 Historical GEOL	BIO 202 Organisms, Adaptation, and Diversity (NCS: AU Core 5) OR GEOL 102 Historical Geology	4 (4)
ENGL 1030 English Comp II	ENG 102 English Comp II (CP2: AU Core 6)	3
MATH 1110 College Algebra	MATH Core Elective	4
POLT 1010 American National Government	POLSC Elective	3
SOCY 2010 Cultural Diversity & Racism OR PSYC 1070 Intro to Women's Studies OR COMM 2070 Intercultural Comm	SOC 301 Race, Ethnic, & Minority (SS: AU Core 7) OR PSYC elective OR COM 302	3 (3) (3)
Semester Three		16 Credits
<u>CHEM 1210</u> Chemistry I	CHEM 103 General Chemistry	5
HIST 1010 American HIST I OR HIST 1050 Western Civilization I OR ENGL 2050 American Lit OR SPAN 1010 Beginning SPAN I	HIST 212 American HIST through Civil War OR HIST 112 Western Civilization to 1500 (Choose either to count towards HR: AU Core 8) OR ENG 203 American Literature (HUM: AU Core 8) OR SPAN 171 Elementary Spanish I (CCI: AU Core 8)	3 (3) (3) (3)
MATH 1130 Trigonometry	MATH 111 Precalculus- (1 of 2 Math for major)	4
PHYS 1110 General Physics I	PHYS 201 General Physics	4
Semester Four		16 Credits
ASCI 2900 Capstone	General elective	1
<u>CHEM 1220</u> Chemistry II	CHEM 104 General Chemistry	5
PHYS 1130 General Physics II	PHYS 202 General Physics	4
MUSC 1010 Music Appreciation OR THEA 1010 Intro to Theatre	Music 225 Musical Styles OR TH 203 Theatre AES (Choose either to count as AES: AU Core 9)	3 (3)
HIST 1030 American HIST II OR HIST 1070 Western Civilization II OR ENGL 2070 American Lit II OR SPAN 1020 Beginning SPAN II	HIST 213 American HIST after Civil War OR HIST 113 Western Civilization from 1500 (Choose either to count towards HR: AU Core 10 IF did not take HIST semester 3) OR ENG 203 American Literature if did not take ENGL 2050, if did, then HUM Core Elec (HUM: AU Core 10) OR SPAN 172 Elementary Spanish II (CCI: AU Core 10 IF did not take SPAN semester 3)	3 (3) (3) (3)
65 TOTAL CREDIT HOURS TO COMPLETE AA FROM NORTH CENTRAL STATE COLLEGE		

SUGGESTED SEQUENCE AT ASHLAND UNIVERSITY		
Semester Five	Requirement Details	14-16 Credits
CHEM 307 /307L Organic Chemistry OR MATH Requirement	Offered Fall only OR 2 of 2 Math & MLG Core 11	4 (3)
Elective Bio Seminar	BIO 276 (SP) or BIO 304 (FA)	1
BIO 303 Genetics		4
Biology Elective		3-4
Institutional Requirement	AES Core 12	3
Semester Six		15-18 Credits
MATH Requirement OR CHEM 307/307L Organic Chemistry	2 of 2 Math & MLG Core 11 OR Offered Fall only	3 (4)
Choose 1 course from three of the 4 areas	<u>1 of 3</u> Cellular & Molecular OR Biodiversity OR Physiology OR Ecology & Evolution	3-4
Institutional Requirement	REL Core 13	3
Institutional Requirement	HIST, HUM or CCI Core 14	3
Biology Elective		3-4
Semester Seven		13-16 Credits
BIO 495 Senior Seminar OR BIO 301 Professional Prep	Offered Spring only	1 (1)
Biology Elective		3-4
Choose 1 course from three of the 4 areas	<u>2 of 2</u> Cellular & Molecular OR Biodiversity OR Physiology OR Ecology & Evolution	3-4
Institutional Requirement	HIST, HUM or CCI Core 15	3
Biology Elective	At least 12 hours of area electives, seminar requirement and general biology electives should be at the 300 or 400 level.	3-4
Semester Eight		13-17 Credits
BIO 301 Professional Prep OR BIO 495 Senior Seminar	Offered Spring only	1 (1)
Choose 1 course from three of the 4 areas	<u>3 of 3</u> Cellular & Molecular OR Biodiversity OR Physiology OR Ecology & Evolution	3-4
Biology Elective		3-4
Biology Elective		3-4
Biology Elective	If needed to reach major hrs.	3-4
55-67 CREDIT HOURS TO MEET AU'S BIOLOGY REQUIREMENTS. 120-132 TOTAL CREDIT HOURS TO COMPLETE BS FROM ASHLAND UNIVERSITY, INCLUDING TRANSFER COURSEWORK. Must earn not less than 120 semester hours to earn a baccalaureate degree.		

This Transfer Pathway presumes that COM, CCL, HR, CP1, CP2, NCS, SS, and half of AES were taken at North Central State College. The MLG, HUM, REL, and half of AES will be taken at Ashland University.

Key for Core Classes:

COM = Communication
CP1 = English Comp I
CP2 = English Comp II
MLG = Math/Logic
REL = Religion
AES = Aesthetics

HUM = Humanities
NCS = Natural Sciences
SS = Social Sciences
HR = Historical Reasoning
CCI = Critical Cultural Inquiry

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