Associate of Science in Mathematics to a Bachelor of Arts in Mathematics (Minor Required)

Key: **Bold Courses = count toward AU Core**   Underlined Stark State Courses = count toward AU mathematics major

SUGGESTED SEQUENCE AT STARK STATE COLLEGE

Semester One	AU Equivalencies	15 Credits
SSC101 Student Success Seminar	ELCT 000	1
MTH 135 Precalculus	Math 111 Precalculus	5
ENG 124 College Comp.	ENG 101 ENG Composition I (CP1: AU Core 1)	3
Choose one Social & Behavioral Science Elective: **PSY 121** General Psych. OR **BUS 222** Macroeconomics OR **SOC 121** Sociology	PSYC 101 General Psych I OR ECON 233 Principles of Microeconomics OR SOC 111 Principles of Soc (Choose any toward SS: AU Core 2)	3 (3) (3)
Choose one Arts & Humanities Elective: **ENG 237** American Lit.:1865 to Present OR **PHL122** Ethics	ENG 203 American Lit OR Phil 215 Ethics (Choose either toward HUM: AU Core 3)	3 (3)
Semester Two		16 Credits
<u>MTH 223</u> Analytic Geometry and Calculus I	MATH 205 Calculus I (MLG: AU Core 4)	4
SOC 225 Diversity in American Society	SOC 301 Race, Ethnic, and Minority Issues (SS: AU Core 5)	3
<u>MTH 214</u> Discrete Mathematics	Math 223 Discrete Mathematics I	3
Choose one Arts & Humanities Elective: **HIS 121** US History I: To 1877 OR **HIS 122** US History II: From 1877 OR **HIS 221** Western Civilization: to 17th Century	HIST 212 American History through Civil War OR HIST 213 American History After Civil War OR HIST 112 Western Civil to 1500 (Choose any toward HR: AU Core 6)	3 (3) (3)
English Comp & Oral Communication Elective: **ENG 231** College Comp II	ENG 102 ENG Comp II (CP2: AU Core 7)	3
Semester Three		14-16 Credits
<u>MTH 224</u> Analytic Geometry & Calculus II	MATH 206 Calculus II	4
Choose one Additional Elective		3-4
Additional Elective: **ENG 233** British Literature: MED to 1785 OR ENG 237 American Lit: 1865 to Present	ENG 217 British Literature OR ENG 203 American Literature (Choose either toward HUM: AU Core 8)	3
Choose one Natural Science Elective: **BIO 127** Human Biology OR **BIO 126** Sci/Energy & the Environ. OR **CHM 141** General Chemistry	BIO 100 Human Bio OR BIO 110 Ecology & the Human Envir. OR CHEM 103 General CHEM (Choose any toward NSC: AU Core 9)	4 (4) (5)
Semester Four		15-16 Credits
<u>MTH 225</u> Analytic Geometry & Calculus III	MATH 305 Calculus III	4
<u>MTH 226</u> Linear Algebra	MATH 307 Linear Algebra	3
<u>MTH 227</u> Ordinary Differential Equations	MATH 313 Differential Equations (Choose one: 1 of 3 courses)	4
Choose one Natural Science Elective: **BIO 127** Human Biology OR **BIO 126** Sci/Energy & the Environ. OR **CHM 141** General Chemistry	BIO 100 Human Bio OR BIO 110 Ecology & the Human Envir. OR CHEM 103 General CHEM (Choose any toward NSC: AU Core 10)	4 (4) (5)

60-63 TOTAL CREDIT HOURS TO COMPLETE AS FROM STARK STATE COLLEGE

SUGGESTED SEQUENCE AT ASHLAND UNIVERSITY

Semester Five	Requirement Details	15 Credits
CS 101 Logic & Computing	Offered Fall	3
MINOR	1 of 6	3
Institutional Requirement	AES: Core 11	3
Institutional Requirement	COM: Core 12	3
MATH 415 Abstract Algebra OR MATH 417 Real Analysis	Offered fall even OR Offered fall odd waiving prerequisite of MATH 250 for both courses	3 (3)
Semester Six		16 Credits
MINOR	2 of 6	3
Institutional Requirement	REL: Core 13	3
MATH 230 Mathematical Modeling OR Institutional Requirement	Offered spring even OR CCI: Core 14	3 (3)
MATH 250 Mathematical Proof	Offered spring	1
Choose one: MATH 108 Introductory Statistics OR MATH 318 Math. Statistics	Offered each semester OR Offered spring even	3 (3)
General Elective	As needed	3
Semester Seven		15 Credits
Institutional Requirement	AES: Core 15	3
MINOR	3 of 6	3
MINOR	4 of 6	3
MATH 417 Real Analysis OR MATH 415 Abstract Algebra	Offered fall odd OR Offered fall even waiving prerequisite of MATH 250 for both courses	3 (3)
Choose one: 2 of 3 courses	CS 302, MATH 224, MATH 308, MATH 309, MATH 311, MATH 317, MATH 319, MATH 341, MATH 498	3
Semester Eight		14 Credits
MATH 450 Seminar	Offered spring	1
MINOR	5 of 6	3
MINOR	6 of 6	3
Choose one: 3 of 3 courses	CS 302, MATH 224, MATH 308, MATH 309, MATH 311, MATH 317, MATH 319, MATH 341, MATH 498	3
Institutional Requirement OR MATH 230 Mathematical Modeling	CCI: Core 14 OR Offered spring even	3 (3)
General Elective	1 credit may be needed to reach required 120 hours.	1

60 CREDIT HOURS TO REACH 120 TOTAL CREDIT HOURS TO COMPLETE BA FROM ASHLAND UNIVERSITY, INCLUDING TRANSFER COURSEWORK

You must earn not less than 120 semester hours to earn a baccalaureate degree.

Contact Information:

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This Transfer Pathway presumes that AU's CP1, CP2, MLG, HR, NSC, SS, and HUM have been met at Stark State. The COM, REL, CCI, and AES core requirements will be met at AU.

Key for Core Classes:

COM = Communication	HUM = Humanities
CP1 = English Comp I	NSC = Natural Sciences
CP2 = English Comp II	SS = Social Sciences
MLG = Math/Logic	HR = Historical Reasoning
REL = Religion	CCI = Critical Cultural Inquiry
AES = Aesthetics	