B.S. MATHEMATICS (Comprehensive Major) 8/30/2012
2012 FOUR YEAR CURRICULUM GUIDE
DEPARTMENT OF MATHEMATICS & COMPUTER SCIENCE

Year 1	Fall Semester			Year 1	Spring Semester	
Course #	Title	Cr		Course #	Title	Cr
MATH 205	The Calculus I (fa only) (Core 1)	5		MATH 206	The Calculus II (sp only)	5
AOS 101	Accent on Success	1		ENG 102	Composition II (Core 5)	3
COM 101	Human Communication (Core 2)	3		HS/FCS 180	Lifetime Wellness (Core 6)	2
ENG 101	Composition I (Core 3)	3		CORE/GPS*	Institutional Requirement (Core 7)	3
CORE/GPS*	Institutional Requirement (Core 4)	3		ELECTIVE	Science Elective (1)	3
	TOTAL	15			TOTAL	16

Year 2	Fall Semester			Year 2	Spring Semester	
Course #	Title	Cr		Course #	Title	Cr
MATH 223	Discrete Mathematics I (fa only)	3		MATH 224	Discrete Mathematics II (sp only)	3
MATH 305	The Calculus III (fa only)	4		MATH 307	Linear Algebra (sp only)	3
CORE/GPS*	Institutional Requirement (Core 8)	3		CORE	Institutional Requirement (Core 10)	3
CORE	Institutional Requirement (Core 9)	3		CORE	Institutional Requirement (Core 11)	3
ELECTIVE	Science Elective (2)	3		ELECTIVE	Science Elective (3)	3
	TOTAL	16			TOTAL	15

Year 3	Fall Semester			Year 3	Spring Semester	
Course #	Title	Cr		Course #	Title	Cr
MATH 415	Intro to Modern Algebra (fa even) or MATH 417 Intro to Analysis (fa odd)	3		ELECTIVE	Math Elective (2)	3
ELECTIVE	Math Elective (1)	3		CORE	Institutional Requirement (Core 13)	3
CORE	Institutional Requirement (Core 12)	3		CORE	Institutional Requirement (Core 14)	3
ELECTIVE	Science Elective (4)	3		ELECTIVE	Science Elective (5)	3
ELECTIVE	General Elective	3		ELECTIVE	General Elective	3
	TOTAL	15			TOTAL	15

Year 4	Fall Semester			Year 4	Spring Semester	
Course #	Title	Cr		Course #	Title	Cr
MATH 417	Intro to Analysis (fa odd) or MATH 415 Intro to Modern Algebra (fa even)	3		MATH 450	Seminar	1
MATH 450	Seminar	1		ELECTIVE	Math Elective (3)	3
CORE	Institutional Requirement (Core 15)	3		CORE	Institutional Requirement (Core 17)	3
CORE	Institutional Requirement (Core 16)	3		CORE	Institutional Requirement (Core 18)	3
ELECTIVE	Science Elective (6)	3		ELECTIVE	Science Elective (7)	3
				ELECTIVE	General Elective	3
	TOTAL	13			TOTAL	16

121 hours

**The Global Competency Requirement offers three tracks to completion. Students must complete one track. Three GPS courses are included in this guide, but students completing the requirement with fewer courses, or with study abroad, can substitute other elective courses to complete their degree studies. Students may take as many as 4 courses to fulfill the Global Competency Requirement. See http://www.ashland.edu/students/academics/core-curriculum/gps for details. Students taking language courses in the Modern Languages track are advised to start those courses in Year 1. The Global Studies or Study Abroad tracks can be taken Year 2 or later. In any case, discuss your options early with your faculty advisor or the professional advisor.*
This curriculum guide includes 9 hours of general electives, 9 hours of required mathematics electives and 21 hours of required science electives.