B.S. INTEGRATED 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		EDCI 232	Intro to Principles of Instructional Tech.	3
ENG 101	Composition I (Core 3)	3		EDFN 202	Teaching and Learning Process	3
EDFN 130	Intro to Teaching: Exploring Teaching as a Career	2		CORE/GPS*	Institutional Requirement (Core 6)	3
CORE/GPS*	Institutional Requirement (Core 4)	3				
	TOTAL	**17**			**TOTAL**	**17**

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
PHYS 205	University Physics (fa only) *or* PHYS 201 General Physics (fa even)	4-5		EDCI 230 SEC	Workshop in Teaching: Grades 7-12 Field Experience	3
PSYC 218	Psychology of Adolescence (Core 7)	3		EDCI 287	Curriculum/Instruction/Assessment	3
CORE/GPS*	Institutional Requirement (Core 8)	3		EDIS 250	Intro to Educational Intervention	3
				CORE	Institutional Requirement (Core 9)	3
	TOTAL	**17-18**			**TOTAL**	**18**

Year 3	Fall Semester			Year 3	Spring Semester	
Course #	**Title**	**Cr**		**Course #**	**Title**	**Cr**
MATH 311	Modern Geometry (fall odd) *or* MATH 319 Number Theory (fa even)	3		MATH 208	Elementary Statistics *or* MATH 318 Math. of Statistics (sp even)	3
MATH 317	Probability (fa odd) *or* MATH 415 Intro to Modern Algebra (fa even)	3		MATH 309	History of Mathematics (sp only)	3
EDCI 392	Content Area Reading	3		MATH 432	Secondary Methods (sp only)	3
CORE	Institutional Requirement (Core 10)	3		MATH 450	Seminar	1
CORE	Institutional Requirement (Core 11)	3		EDCI 330 SEC	Classroom Management Grades 7-12 Education for Diversity	2
CORE	Institutional Requirement (Core 12)	3		CS 121	Computer Programming I	4
				HS/FCS 180	Lifetime Wellness (Core 13)	2
	TOTAL	**18**			**TOTAL**	**18**

Year 4	Fall Semester			Year 4	Spring Semester	
Course #	**Title**	**Cr**		**Course #**	**Title**	**Cr**
MATH 319	Number Theory (fa even) *or* MATH 311 Modern Geometry (fa odd)	3		EDCI 461	Student Internship Grades 7-12	10
MATH 415	Intro to Modern Algebra (fa even) *or* MATH 317 Probability (fa odd)	3		EDFN 402	Social and Professional Issues	3
MATH 450	Seminar	1		CORE	Institutional Requirement (Core 18)	3
CORE	Institutional Requirement (Core 14)	3				
CORE	Institutional Requirement (Core 15)	3				
CORE	Institutional Requirement (Core 16)	3				
CORE	Institutional Requirement (Core 17)	3				
	TOTAL	**19**			**TOTAL**	**16**

131-144 hours (depending on choice of Core & GPS Courses)

**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. However, 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. To complete the Global Studies track and reduce total hours, students are encouraged to select three Border Crossing courses that also fulfill institutional Core requirements. Students who do their student teaching abroad meet all GPS requirements. Students who do 6 weeks student teaching as a Study Away only need 1 more GPS course. In any case, discuss your options early with your faculty advisor or the professional advisor.*