

# BA/BS in Mathematics Education

## 2015 - 2016



GENERAL EDUCATION REQUIREMENTS						minimum 30 credits	
	Requirement	Course	CR	Prerequisites & Notes	Grade	Semester	
<input type="checkbox"/>	Computer Literacy	CIS 1200 <i>or</i> CIS 1201 <i>or</i> (CS 1400 and CS 1410)	0-6				
<input type="checkbox"/>	English	ENGL 1010 <i>or</i> ENGL 1010A <i>or</i> ENGL 1010D	0-4	English and Reading plcmnt scores; pre/corequisite LIB 1010			
<input type="checkbox"/>	English	ENGL 2010 <i>or</i> ENGL 2010A	3	ENGL 1010/A/D (C or higher) or ACT $\geq$ 28; pre/corequisite LIB 1010			
<input type="checkbox"/>	Information Literacy	LIB 1000 <i>or</i> LIB 1010	0-1	English placement score for class			
<input type="checkbox"/>	Mathematics		3-5	Math placement score or MATH prerequisite			
<input type="checkbox"/>	American Institutions	HIST 1700 <i>or</i> POLS 1100	3	<b>program requirement</b>			
<input type="checkbox"/>	Life Sciences		3-10				
<input type="checkbox"/>	Physical Sciences		3-5				
<input type="checkbox"/>	Laboratory Science		0-1				
<input type="checkbox"/>	Fine Arts		3				
<input type="checkbox"/>	Literature / Humanities		3				
<input type="checkbox"/>	Social & Behavioral Sciences	FCS 1500 <i>or</i> PSY 1010/1010A <i>or</i> PSY 1100	3	<b>program requirement</b>			
<input type="checkbox"/>	Exploration		3-5	3-5 credits, prefix not used in other GE			
<input type="checkbox"/>	Global & Cultural Perspectives		0-3	- Complete two with different prefixes			
<input type="checkbox"/>	Global & Cultural Perspectives		0-3	- Can share credit with other GE			
<input type="checkbox"/>	Foreign Language (for Bachelor of Arts)	<b>Complete 16 credits</b> in a single foreign language (by coursework or vertical credit); <b>OR</b> foreign language 2020 or 3060 class ( $\geq$ C); <b>OR</b> foreign language 1020 class ( $\geq$ C) and 12 credits FLATS/FL-GE in another language; <b>OR</b> nonnative speakers may use ESL test or specific course(s). ASL cannot be used to fulfill the BA foreign language requirement in this major.					
<b>OR</b>							
<input type="checkbox"/>	Associate of Arts or Associate of Science degree	Date:		USHE?	Y / N		
MATHEMATICS CORE REQUIREMENTS						42 credits	
	Course Number	Description	CR	Prerequisites & Notes	Grade	Semester	
<input type="checkbox"/>	MATH 1040 <i>or</i> MATH 1040A	Introduction to Statistics or Honors	3	See Catalog; <i>GE: Mathematics</i>			
<input type="checkbox"/>	MATH 1210	Calculus I	5	See Catalog; <i>GE: Mathematics</i>			
<input type="checkbox"/>	MATH 1220	Calculus II	4	MATH 1210 (C or higher)			
<input type="checkbox"/>	MATH 2200	Discrete Mathematics	3	MATH 1210 (C or higher)			
<input type="checkbox"/>	MATH 2210	Multivariable Calculus	3	MATH 1210 (C or higher)			
<input type="checkbox"/>	MATH 2270	Linear Algebra	3	MATH 1210 (C or higher)			
<input type="checkbox"/>	MATH 2280	Ordinary Differential Equation	3	MATH 1220 (C or higher)			
<input type="checkbox"/>	MATH 3000	History of Mathematics	3	MATH 1220 (C or higher)			
<input type="checkbox"/>	MATH 3100	Euclidean / Non-Euclidean Geometry	3	MATH 2200 (C or higher)			
<input type="checkbox"/>	MATH 3200	Introduction to Analysis I	3	MATH 2200 & MATH 2210 (both $\geq$ C)			
<input type="checkbox"/>	MATH 3400	Probability & Statistics	3	MATH 1220 (C or higher)			
<input type="checkbox"/>	MATH 3900	Number Theory	3	MATH 2200			
<input type="checkbox"/>	MATH 4000	Foundations of Algebra	3	MATH 2200			
MATHEMATICS PROGRAM REQUIREMENTS						8 credits	
<input type="checkbox"/>	CS 1400	Fundamentals of Programming	3				
<input type="checkbox"/>	PHYS 2210/15	Physics for Scientists /Engineers I / Lab	5	See Catalog; <i>GE: Physical Science</i> ; <i>GE: Lab</i>			

SECONDARY EDUCATION PROGRAM PREREQUISITE COURSES						15 credits	
	Course Number	Description	CR	Prerequisites & Notes	Grade	Semester	
<input type="checkbox"/>	EDUC 1010	Foundations/Intro to Education	3				
<input type="checkbox"/>	EDUC 2010	Intro to Exceptional Learners	3				
<input type="checkbox"/>	EDUC 2400	Foundations Multicultural/ESL	3	GE: GLOCUP			
<input type="checkbox"/>	EDUC 2500	Tech for Educ and Elec Portfolios (K-12)	3				
<input type="checkbox"/>	EDUC 3110	Educational Psychology	3	FCS 1500 <i>or</i> PSY 1010/A <i>or</i> PSY 1100			
SECONDARY EDUCATION PROFESSIONAL REQUIREMENTS (Admission to DSU SET program required)						24 credits	
<p>To be admitted to the SET program and enroll in professional courses, candidates must maintain a cumulative university GPA of 3.0, and receive a C or better in all education related courses and major required content courses. Students must pass the appropriate PRAXIS II Content Knowledge Test(s). In addition, one of the following must be completed:</p> <ul style="list-style-type: none"> <li>* Students with BA/BS degrees in progress must have completed at least 95% of major coursework and have approval of major academic content area department advisor</li> <li>* Students with completed BA/BS or higher degrees must have their transcripts reviewed by their content area department advisor</li> </ul>							
<i>Semester I</i>							
<input type="checkbox"/>	SCED 3720	Reading Writing Content Areas	3				
<input type="checkbox"/>	SCED 4100	Curriculum, Instruction & Assess	3				
<input type="checkbox"/>	SCED 4600	Classroom Management	3				
<input type="checkbox"/>	MATH 4500	Methods Teach Secondary Math	3	MATH 1210 (C or higher)			
<i>Semester II</i>							
<input type="checkbox"/>	SCED 4900	Secondary Student Teaching	10	corequisite SCED 4989			
<input type="checkbox"/>	SCED 4989	Student Teaching Seminar	2	corequisite SCED 4900			
ELECTIVES						see graduation requirements	
<input type="checkbox"/>							
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<input type="checkbox"/>							
<input type="checkbox"/>							
GRADUATION REQUIREMENTS							
<ul style="list-style-type: none"> <li><input type="checkbox"/> Subtract duplicated and developmental (0990 and below) credits</li> <li><input type="checkbox"/> Minimum 120 college-level credits (1000 and above)</li> <li><input type="checkbox"/> At least 40 upper-division credits (3000 and above)</li> <li><input type="checkbox"/> At least 30 upper-division credits at DSU for institutional residency</li> <li><input type="checkbox"/> Grade C or higher in all education related courses and major required content courses</li> <li><input type="checkbox"/> 3.0 GPA in program prerequisite and professional Education and Secondary Education courses</li> <li><input type="checkbox"/> Cumulative university GPA 3.0 or higher</li> </ul>							