

Messiah College
Education with Teaching Certification in Grades 4-8 (B.S.) Science Concentration
Requirements for students matriculating in 2015-2016

		HACC Course Options	
Major requirements	Credits		Credits
[BIOL 106] Life Sciences	3	BIOL 101, 102	
<i>Three credits from the following:</i>	3		
[CIS 180] Intro to Computer and Information Science (3)			
[CIS 181] Computer Programming I (3)		CPS 121	
[CIS 171] Problem Solving with Computers (3)		CPS 161	
[EDSP 207] Introduction to Special Education	3		
[EDSP 307] Inclusion Practices	3		
[EDUC 201] Education and American Society*	3	EDUC 101	
[EDUC 203] Educational Psychology	3	PSYC 201	
[EDUC 205] Cultural & Political Geography	3	GEOG 230	
[EDUC 209] Principles & Structures of Mathematics	3	MATH 113 and 114	
[EDUC 226] Children's Literature	3		
[EDUC 302] Literacy: Climate, Curriculum & Instruction II	3		
[EDUC 304] Math: Climate, Curriculum & Instruction II	3		
[EDUC 305] Middle Level Methods	3		
[EDUC 308] ELL Instruction and Assessment	3		
[EDUC 331] Instr Des & Assessment for Middle & Sec Grades*	3		
[EDUC 342] Social Studies: Climate, Curriculum & Instruction	3		
[EDUC 346] Socio-Cultural Perspectives on Education	3		
[EDUC 347] Science: Climate, Curriculum & Instruction	3		
[EDUC 407] Student Teaching Seminar	1		
[EDUC 420] Professional Issues in Education*	2		
[TEP 210] Sophomore Field Experience	0		
[TEP 316] Field Experience II in Grade 6-8	0		
[TEP 318] Field Experience III in Grade 4-5	0		
[TEP 433] Student Teaching: 4-8 Grades	8		
[ENGL 160] World Literature (This course has been approved to meet Literature and non-western)	3	ENGL 205 or 206 (If any other literature is taken you will need to take a course meeting our non-western requirement)	
[ESS 201] Earth and Space Science	3	PHSC 114	
<i>Three credits from the following:</i>	3		
[HIST 141] U.S. History Survey to 1865 (3)			
[HIST 142] U.S. History Survey Since 1865 (3)		HIST 103 HIST 104	
3-4 credits, determined by concentration: Science, English, Science & English, Social Studies, Science and Social Studies: [MATH 101] Introduction to Mathematical Sciences (3)	3-4	MATH 111, 114	

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[MATH 102] The Mathematics of Growth (3) [MATH 108] Intuitive Calculus with Applications (3) [MATH 111] Calculus I (4) Math, Math & Social Studies, Math & English, Math & Science concentrations: [MATH 111] Calculus I (4)		MATH 103, 119 MATH 121	
[PHSC 102] Foundations of Physical Science	3	PHSC 113	
[PSYC 311]/[HDFS 311] Adolescent Development	3	PSYC 211	
Science Concentration (18 credits)			
[BIOL 315] Environmental Ethics (3)	3		
<i>At least three credits from the following:</i> [BIOL 117] Field Biology (3) [BIOL 160] Molecular and Cellular Biology (4) [BIOL 161] Animal Form and Function (3) [BIOL 162] Plant Form and Function (3) [BIOL 258] Human Biology (4)	3-4	BIOL 130 BIOL 102 BIOL 101 BIOL 111	
<i>At least three credits from the following:</i> [CHEM 102] Chemistry for Living (3) [CHEM 103] Chemical Science (4) [CHEM 105] General Chemistry I (4) [CHEM 106] General Chemistry II (4)	3-4	CHEM 100, 113, CHEM 101 CHEM 102	
<i>At least four credits from the following:</i> [PHYS 201] Introductory Physics I (4) [PHYS 202] Introductory Physics II (4)	4	PHYS 201, 151 PHYS 202	
3-5 Additional credits from BIOL, CHEM or PHYS courses above, for a total of 18 credits in the concentration	5-3		
Experiential Learning requirement	0		

QuEST requirements	Credits	HACC Courses	
First Year Seminar	3	ENGL 101 (if taken after high school)	
Oral Communication	3	COMM 101 or SPCH 101	
Created and Called for Community (W)	3	<i>Messiah Course</i>	
Mathematical Sciences (CIS or MATH course from core)	met/major	-	-
Laboratory Science (BIOL 106 & PHSC 102)	met/major	-	-
Science, Technology & the World	waived	-	-
Social Science (EDUC 203)	met/major	-	-
European History or U.S. History (HIST 141 or 142)	met/major	-	-
Literature (ENGL 160)	waived	-	-
Philosophy and Religion	reduction	-	-
Arts	3	ARCH 111, ART 102, 105, 107, 121, 151, 171, MUS 102,	

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		104,110, 119, 210, THEA 101, 110, 111	
First Semester of Language	3	Any Modern Language 1 st Level	
Second Semester of Language	3	Any Modern Language 2 nd Level	
Third Semester of Language or Cross Cultural (Messiah Course)	3	Any Modern Language Intermediate Level	
Non-Western Studies **only waived if students take ENGL 160.	waived**	-	-
Bible	3	<i>Messiah Course</i>	
Christian Beliefs	3	<i>Messiah Course</i>	
Wellness	1	Any two Messiah WELL 100 Equivalent Courses	2
Ethics (BIOL 315) World Views or Pluralism	met/major	<i>Messiah Course</i>	
QuEST requirements	28		
Major requirements	98-99		
Total	126-127		

*Fulfills Writing Enriched course requirement for Major.

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