

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

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

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<a href="#">[MATH 102]</a> The Mathematics of Growth (3) <a href="#">[MATH 108]</a> Intuitive Calculus with Applications (3) <a href="#">[MATH 111]</a> Calculus I (4) Math, Math & Social Studies, Math & English, Math & Science concentrations: <a href="#">[MATH 111]</a> Calculus I (4)		MATH 103, 119  MATH 121	
<a href="#">[PHSC 102]</a> Foundations of Physical Science	3	PHSC 113	
<a href="#">[PSYC 311]</a> / <a href="#">[HDFS 311]</a> Adolescent Development	3	PSYC 211	
<b>Science Concentration (18 credits)</b>			
<a href="#">[BIOL 315]</a> Environmental Ethics (3)	3		
<i>At least three credits from the following:</i> <a href="#">[BIOL 117]</a> Field Biology (3) <a href="#">[BIOL 160]</a> Molecular and Cellular Biology (4) <a href="#">[BIOL 161]</a> Animal Form and Function (3) <a href="#">[BIOL 162]</a> Plant Form and Function (3) <a href="#">[BIOL 258]</a> Human Biology (4)	3-4	BIOL 130  BIOL 102 BIOL 101 BIOL 111	
<i>At least three credits from the following:</i> <a href="#">[CHEM 102]</a> Chemistry for Living (3) <a href="#">[CHEM 103]</a> Chemical Science (4) <a href="#">[CHEM 105]</a> General Chemistry I (4) <a href="#">[CHEM 106]</a> General Chemistry II (4)	3-4	CHEM 100, 113,  CHEM 101 CHEM 102	
<i>At least four credits from the following:</i> <a href="#">[PHYS 201]</a> Introductory Physics I (4) <a href="#">[PHYS 202]</a> 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		
<b>Experiential Learning requirement</b>	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 <sup>st</sup> Level	
Second Semester of Language	3	Any Modern Language 2 <sup>nd</sup> 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 <b>two</b> Messiah WELL 100 Equivalent Courses	2
Ethics (BIOL 315) World Views <b>or</b> Pluralism	met/major	<i>Messiah Course</i>	
QuEST requirements	28		
Major requirements	98-99		
<b>Total</b>	<b>126-127</b>		

\*Fulfills Writing Enriched course requirement for Major.

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