

Messiah College
Engineering with Civil Concentration (B.S.E.)
Requirements for students matriculating in 2015-2016

		HACC Course Options	
Major requirements	Credits		Credits
[ENGR 101] Engineering Graphics	2	CAD 154, 164	
[ENGR 102] Introduction to Engineering	2	ENGR 102	
[ENGR 201] Group Orientation	1		
[ENGR 231] Engineering Statics	3	ENGR 213	
[ENGR 236] Circuits I	4		
[ENGR 242] Experimental Methods	3		
[ENGR 254] Materials Engineering	4		
[ENGR 290] Engineering Economics	2		
[ENGR 301] Seminar I*	1		
[ENGR 302] Seminar II*	1		
<i>Six credits from the following:</i>	6		
[ENGR 288] Project I (1)			
[ENGR 388] Project II (1-2)			
[ENGR 488] Project III (2-3)			
[ENGR 489] Project IV (2-3)			
[CHEM 105] General Chemistry I	4	CHEM 101	
[MATH 111] Calculus I	4	MATH 121	
[MATH 112] Calculus II	4	MATH 122	
[MATH 211] Calculus III	4	MATH 221	
[MATH 270] Advanced Math for the Sciences	3		
[PHYS 211] General Physics I	4	PHYS 211	
[PHYS 212] General Physics II	4	PHYS 212	
Civil Concentration (33)			
[ENGR 321] Environmental Engineering	4		
[ENGR 322] Water Resources Engineering	3		
[ENGR 233] Mechanics of Materials	3		
[ENGR 351] Analysis and Dynamics of Structures	4		
[ENGR 352] Design of Concrete Structures	3		
[ENGR 355] Soil Mechanics and Foundation Design	3		
[ENGR 357] Transportation Engineering	3		
[ENGR 358] Construction Methods and Materials	3		
[ENGR 372] Fluid Mechanics	4		
[ENGR 452] Design of Steel Structures	3		
Experiential Learning requirement	0		

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QuEST requirements	Credits	HACC Courses	
First Year Seminar	3	ENGL 101 (if taken after high school)	3
Oral Communication	3	COMM 101 or SPCH 101	3
Created and Called for Community (W)	3	<i>Messiah Course</i>	
Mathematical Sciences (MATH 111)	met/major	-	-
Laboratory Science (CHEM 105)	met/major	-	-
Science, Technology & the World	waived	-	-
Two of the following (six credits total) Social Science European History United States History	6	<u><i>Social Science:</i></u> ECON 201, GP 201, 208, PSYC 101, SOCI 120, 201, 203 CJ 101 <u><i>European History:</i></u> HIST 111, 201, 202 <u><i>US History:</i></u> HIST 103, 104, 107	6
Literature	3	Any ENGL Literature 201 or higher	3
Philosophy and Religion	3	PHIL 101	3
Arts	waived	-	-
First Semester of Language	3	Any Modern Language 1 st Level	4
Second Semester of Language	3	Any Modern Language 2 nd Level	4
One of the following**: Third Semester of Language Cross Cultural (Messiah Course) Non-Western Studies	2 or 3	Any Modern Language Intermediate Level Language Course OR ANTH 205, 210, HIST 101, 102	3-4
Bible	3	<i>Messiah Course</i>	
Christian Beliefs	3	<i>Messiah Course</i>	

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Wellness	1	Any two Messiah WELL 100 Equivalent Courses	2
Ethics, World Views or Pluralism	3	<i>Messiah Course</i>	
QuEST requirements	39-40		31-32
Major requirements (inclusive of concentration)	89		
Total credits	128-129		

*Fulfills Writing Enriched course requirement for Major and the capstone.

The choice of either a third semester of a language, a cross cultural, or a non-western studies course applies **only to the Engineering major.

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