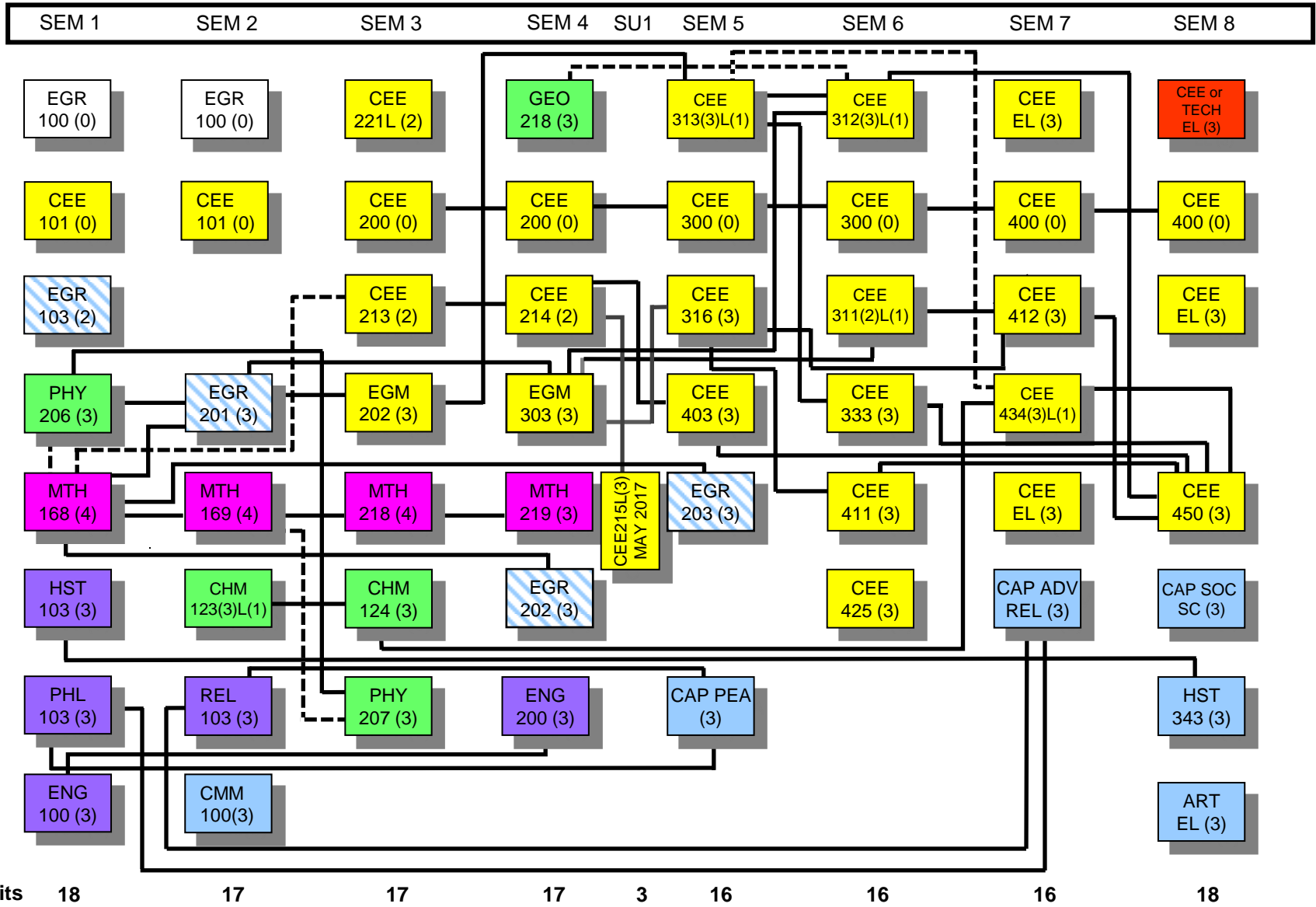











BACHELOR OF CIVIL ENGINEERING

AY 2015-16



 Humanities base	 General Science	 CEE courses	 Co-requisite
 General education electives	 Math	 Technical elective	 Prerequisites (left to right)
		 Integrated Engineering Core	

DEPT NO.	COURSE	CREDIT HOURS			OFFERED
FIRST YEAR		1st/2nd Term			
EGR 100	Enrichment Workshop	0			Required Both
EGR 100	Enrichment Workshop	0			Required Both
CEE 101	Introduction to Civil Engineering	0			Required Both
CEE 101	Introduction to Civil Engineering	0			Required Both
EGR 103	Engineering Innovation	2			FA and SP
EGR 201	Engineering Mechanics	3			FA and SP
CHM 123	General Chemistry ³	4			
ENG 100	Writing Seminar I	3			
MTH 168-169	Analytic Geometry & Calculus I, II	8			
PHY 206	General Physics I	3			
HST 103	The West and The World	3			
REL 103	Introduction to Religion	3			
CMM 100	Oral Communications	3			
PHL 103	Introduction to Philosophy	3			
	Total Hours	35			
SECOND YEAR		1st Term	2nd Term	Summer	
CEE 213	Surveying	2			Fall
CEE 221L	Civil Computation Laboratory	2			FA and SP
EGM 202	Dynamics	3			FA and SP
MTH 218	Analytic Geometry and Calculus III	4			
PHY 207	General Physics II	3			
CHM 124	General Chemistry II	3			
CEE 200	Professional Development Seminar	0	0		Required Both
CEE 214	Highway Geometrics		2		Spring
EGM 303	Mechanics II		3		FA and SP
MTH 219	Applied Differential Equations		3		
GEO 218	Engineering Geology		3		Spring
EGR 202	Thermodynamics		3		FA and SP
ENG 200	Writing Seminar II		3		
CEE 215L	Surveying Field Practice			3	Summer Only
	Total Hours	17	17	3	
THIRD YEAR		1st Term	2nd Term		
CEE 316	Analysis of Structures I	3			FA and SP
CEE 313	Hydraulics ³	4			FA and SP
----	CAP Practical Ethical Action	3			
CEE 403	Transportation Engineering	3			Fall
EGR 203	Electrical and Electronic Circuits	3			FA and SP
CEE 300	Professional Development Seminar	0	0		Required Both
CEE 311	Civil Engineering Materials ⁴		3		Spring
CEE 312	Geotechnical Engineering ³		4		Spring
CEE 333	Water Resources Engineering		3		Spring
CEE 411	Design of Steel Structures		3		Spring
CEE 425	Civil Engineering Systems		3		FA and SP
	Total Hours	16	16		
FOURTH YEAR		1st Term	2nd Term		
CEE 412	Design of Concrete Structures	3			Fall
CEE 434	Water and Wastewater Engineering ³	4			Fall
----	CAP Advanced Religious Studies	3			
----	Civil Engineering Elective ^{1,2}	6	3		FA and SP
CEE 400	Professional Development Seminar	0	0		Required Both
CEE 450	Civil Engineering Design		3		Spring
HST 343	History of Civil Engineering		3		Spring
----	CAP Social Science		3		
----	CEE or Technical Elective ¹		3		FA and SP
----	Art Elective		3		
	Total Hours	16	18		

Credit Hours: 138

¹ Select from list approved by the Department of Civil and Environmental Engineering and Engineering Mechanics.

² May be used to concentrate studies in the areas of construction, environmental, geotechnical, structural, transportation, and water

³ 3 credit hours lecture; 1 credit hour lab.

⁴ 2 credit hours lecture; 1 credit hour lab

* All engineering, mathematics and science courses must be taken for grading option 1.