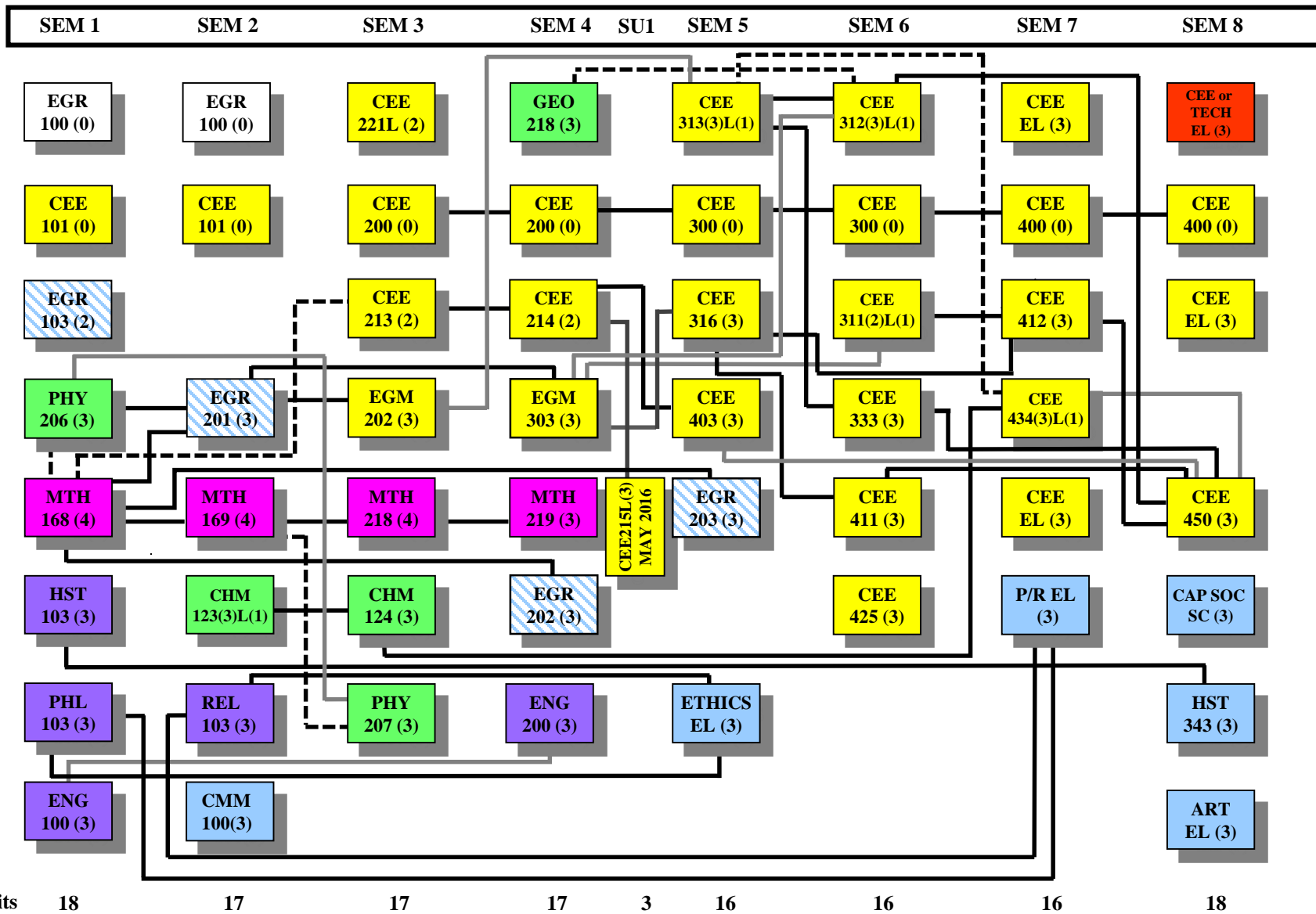











# BACHELOR OF CIVIL ENGINEERING

AY 2014-15



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

DEPT NO.	COURSE	CREDIT HOURS			OFFERED
<b>FIRST YEAR</b>		<b>1st/2nd Term</b>			
EGR 100	Enrichment Workshop	0			Required Both
EGR 100	Enrichment Workshop	0			Required Both
CEE 101	Seminar	0			Required Both
CEE 101	Seminar	0			Required Both
EGR 103	Engineering Innovation	2			FA and SP
EGR 201	Engineering Mechanics	3			FA and SP
CHM 123 <sup>5</sup>	General Chemistry <sup>1</sup>	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		
<b>SECOND YEAR</b>		<b>1st Term</b>	<b>2nd Term</b>	<b>Summer</b>	
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	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
<b>THIRD YEAR</b>		<b>1st Term</b>	<b>2nd Term</b>		
CEE 316	Analysis of Structures I	3		FA and SP	
CEE 313 <sup>5</sup>	Hydraulics	4		FA and SP	
----	Ethics Elective	3			
CEE 403	Transportation Engineering	3		Fall	
EGR 203	Electrical and Electronic Circuits	3		FA and SP	
CEE 300	Seminar	0	0	Required Both	
CEE 311 <sup>6</sup>	Civil Engineering Materials		3	Spring	
CEE 312 <sup>5</sup>	Geotechnical Engineering		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	
<b>FOURTH YEAR</b>		<b>1st Term</b>	<b>2nd Term</b>		
CEE 412	Design of Concrete Structures	3		Fall	
CEE 434 <sup>7</sup>	Water and Wastewater Engineering	4		Fall	
----	Philosophy/Religion Elective	3			
----	Civil Engineering Elective <sup>3,4</sup>	6	3	FA and SP	
CEE 400	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 <sup>2</sup>		3	FA and SP	
----	Art Elective		3		
		Total Hours	16	18	

Credit Hours: 138

<sup>1</sup>All engineering, mathematics and science courses must be taken for grading option 1.<sup>2</sup>Selected from list approved by the Department of Civil and Environmental Engineering and Engineering Mechanics.<sup>3</sup>Select from list approved by the Department of Civil and Environmental Engineering and Engineering Mechanics.<sup>4</sup>May be used to concentrate studies in the areas of construction, environmental, structures, soils, transportation, and water resources engineering.<sup>5</sup>3 credit hours lecture; 1 credit hour lab.<sup>6</sup>2 credit hours lecture; 1 credit hour lab

