CIVIL ENGINEERING PROGRAM: FIRST AND SECOND YEARS

	SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV
MATHEMATICS	MATH UN1101 (3)	MATH UN1102 (3)	APMA E2000 (4) and E2001 (0)	APMA E2101 (3) Intro. to applied math.
PHYSICS (three sequences, choose one)	UN1401 (3) UN1601 (3.5) UN2801 (4.5)	UN1402 (3) UN1602 (3.5) UN2802 (4.5)	Lab UN1494 (3) **or** chem. lab Lab UN3081 (2)	
CHEMISTRY	one-semester lecture (3–4): UN1403 **or** UN1404 **or** UN2045 **or** UN1604 Chem lab UN1500 (3) either semester **or** physics lab			
GEOLOGY	EESC UN2100 (4.5), UN2200 (4.5), UN2300 (4.5), or equivalent			
MECHANICS	ENME E3105 (4) either semester			
CIVIL ENGINEERING	CIEN E3000 (3) (Spring semester; recommended but not required)			CIEN E3004 (3) Urban Infrastructure systems
UNIVERSITY WRITING	CC1010 (3) either semester			
REQUIRED NONTECHNICAL ELECTIVES			HUMA CC1001, COCI CC1101, **or** Global Core (3–4) HUMA UN1121 **or** UN1123 (3)	HUMA CC1002, COCI CC1102, **or** Global Core (3–4) ECON UN1105 (4) **and** UN1155 recitation (0)
COMPUTER SCIENCE	Computer Language: ENGI E1006 (3) or equivalent (any semester)			
PHYSICAL EDUCATION	UN1001 (1)	UN1002 (1)		
THE ART OF ENGINEERING	ENGI E1102 (4) either semester			

CIVIL ENGINEERING: THIRD AND FOURTH YEARS

		SEMESTER V	SEMESTER VI	SEMESTER VII	SEMESTER VIII
CORE REQUIRED COURSES		ENME E3113 (3) Mech. of solids ENME E3161 (4) Fluid mech.	CIEN E3125 (3) Structural design CIEN E3126 (1) Computer-aided struct. design CIEN E3141 (4) Soil mech.	CIEE E3111 (3.5) Uncertainty and risk in civil infrastructure systems CIEN E3129 (3) Proj. mgmt. for construction	CIEN E3128 (4) Design projects
CONCENTRATIONS	**GEOTECH ENG. (GE) OR STRUCT. ENG. (SE)**		ENME E3106 (3) Dynamics and vibrations ENME E3114 (4) Exper. mech. of materials CIEN E3121 (3) Struct. analysis	ENME E3332 (3) A first course in finite elements CIEN E3127 (3) Struct. design projects (SE) **or** CIEN E4241 (3) Geotech. eng. fund. (GE)	
	TECH ELECTIVES	3 points		3 points	9 points
	CIVIL ENG. AND CONSTR. MGMT.		ENME E3114 (4) Exper. mech. of materials CIEN E3121 (3) Struct. analysis **or** EACE E3250 (3) Hydrosystems eng.	CIEN E4133 (3) Capital facility planning and financing CIEN E3127 (3) Struct. design projects **or** CIEN E4241 (3) Geotech. eng. fund.	CIEN E4131 (3) Princ. of constr. tech.
	TECH ELECTIVES	6 points		3 points	6 points
	WATER RES./ ENVIRON. ENG.		EACE E3255 (3) Environ. control / pollution EACE E3250 (3) Hydrosystems eng. CIEN E3303 (1) Independent studies	EAEE E4350 (3) Plan./mgmt. of urban hydro systems.	EACE E4163 (3) Sust. water treat. / reuse EAEE E4006 (3) Field methods for environ. eng.
	TECH ELECTIVES	6 points		3 points	6 points
NONTECH ELECTIVES		3 points	3 points	3 points	
TOTAL POINTS		13	21	18.5	13