

## Sample Programs of Study for a Civil Engineering Sub-discipline Focus

Typical coursework for the first two years of study is provided in the General Program of Studies. Sample programs for an optional focus in a Civil Engineering sub-discipline are provided below. Students should work with a faculty advisor to finalize their selection of technical electives.

<b>CONSTRUCTION MANAGEMENT FOCUS</b>			
<b>JUNIOR</b>	CENG 115 - MATERIALS CENG 121 - GEOTECH CENG 145 - TRANS ENGR MECH 121 - THERMO	CENG 125 - MUNICIPAL ENGR CENG 128 - ENG ECON (3) CENG 135 - CONC DES (5) CENG 141 - HYDRAULICS	CENG 140 - WATER RES (5) CENG 143 - ENVIRON ENG <i>FLEX COURSE</i> <i>FLEX COURSE</i>
<b>SENIOR</b>	CENG 118 - CONST ENGR (3) CENG 134 - STEEL DES CENG 192A - DES METH (2) ENGL 181 - TECH WRIT I (2) <i>FLEX COURSE</i>	CENG 119 - DES SUSTAIN CONSTR CENG 192C - ADV CAD (2) CENG 193 - PROJECT DES I <i>FLEX COURSE</i>	CENG 194 - PROJECT DES II (1) ENGL 182 - TECH WRIT II (1) <i>FLEX COURSE</i> <i>FLEX COURSE</i> <i>FLEX COURSE</i>
<i>THE 7 FLEX COURSES MUST INCLUDE 1 CENG TECHNICAL ELECTIVE, ELEN 50, AND 5 UNIV CORE REQUIREMENTS</i>			
<b>GEOTECHNICAL ENGINEERING FOCUS</b>			
<b>JUNIOR</b>	CENG 115 - MATERIALS CENG 121 - GEOTECH MECH 121 - THERMO <i>FLEX COURSE</i>	CENG 125 - MUNICIPAL ENGR CENG 128 - ENG ECON (3) CENG 135 - CONC DES (5) CENG 141 - HYDRAULICS	CENG 138 - GEOTECH ENG DES CENG 140 - WATER RES (5) CENG 143 - ENVIRON ENG <i>FLEX COURSE</i>
<b>SENIOR</b>	CENG 134 - STEEL DES CENG 145 - TRANS ENGR CENG 192A - DES METH (2) ENGL 181 - TECH WRIT I (2) <i>FLEX COURSE</i>	CENG 192C - ADV CAD (2) CENG 193 - PROJECT DES I <i>FLEX COURSE</i> <i>FLEX COURSE</i>	CENG 194 - PROJECT DES II (1) ENGL 182 - TECH WRIT II (1) <i>FLEX COURSE</i> <i>FLEX COURSE</i> <i>FLEX COURSE</i>
<i>THE 8 FLEX COURSES MUST INCLUDE 2 CENG TECHNICAL ELECTIVES, ELEN 50, AND 5 UNIV CORE REQUIREMENTS</i>			
<b>STRUCTURAL ENGINEERING FOCUS</b>			
<b>JUNIOR</b>	CENG 115 - MATERIALS CENG 121 - GEOTECH ENG CENG 134 - STEEL DES MECH 121 - THERMO	CENG 128 - ENG ECON (3) CENG 135 - CONC DES (5) CENG 141 - HYDRAULICS <i>FLEX COURSE</i>	CENG 140 - WATER RES (5) CENG 143 - ENVIRON ENG <i>FLEX COURSE</i> <i>FLEX COURSE</i>
<b>SENIOR</b>	CENG 145 - TRANS ENGR CENG 192A - DES METH (2) ENGL 181 - TECH WRIT I (2) <i>FLEX COURSE</i> <i>FLEX COURSE</i>	CENG 125 - MUNICIPAL ENGR CENG 192C - ADV CAD (2) CENG 193 - PROJECT DES I <i>FLEX COURSE</i>	CENG 194 - PROJECT DES II (1) ENGL 182 - TECH WRIT II (1) <i>FLEX COURSE</i> <i>FLEX COURSE</i> <i>FLEX COURSE</i>
<i>THE 9 FLEX COURSES MUST INCLUDE 3 CENG TECHNICAL ELECTIVES, ELEN 50, AND 5 UNIV CORE REQUIREMENTS</i>			
<b>TRANSPORTATION ENGINEERING FOCUS</b>			
<b>JUNIOR</b>	CENG 115 - MATERIALS CENG 121 - GEOTECH ENG CENG 145 - TRANS ENGR MECH 121 - THERMO	CENG 125 - MUNICIPAL ENGR CENG 128 - ENG ECON (3) CENG 141 - HYDRAULICS <i>FLEX COURSE</i>	CENG 140 - WATER RES (5) CENG 143 - ENVIRON ENG CENG 150 - TRAFFIC ENG <i>FLEX COURSE</i>
<b>SENIOR</b>	CENG 134 - STEEL DES CENG 149 - CIVIL SYS ENG (3) CENG 192A - DES METH (2) ENGL 181 - TECH WRIT I (2) <i>FLEX COURSE</i>	CENG 135 - CONC DES (5) CENG 192C - ADV CAD (2) CENG 193 - PROJECT DES I <i>FLEX COURSE</i>	CENG 194 - PROJECT DES II (1) ENGL 182 - TECH WRIT II (1) <i>FLEX COURSE</i> <i>FLEX COURSE</i> <i>FLEX COURSE</i>
<i>THE 7 FLEX COURSES MUST INCLUDE 1 CENG TECHNICAL ELECTIVE, ELEN 50, AND 5 UNIV CORE REQUIREMENTS</i>			
<b>WATER RESOURCES / ENVIRONMENTAL ENGINEERING FOCUS</b>			
<b>JUNIOR</b>	CENG 115 - MATERIALS CENG 121 - GEOTECH ENG MECH 121 - THERMO <i>FLEX COURSE</i>	CENG 128 - ENG ECON (3) CENG 135 - CONC DES (5) CENG 141 - HYDRAULICS <i>FLEX COURSE</i>	CENG 140 - WATER RES (5) CENG 143 - ENVIRON ENG <i>FLEX COURSE</i> <i>FLEX COURSE</i>
<b>SENIOR</b>	CENG 134 - STEEL DES CENG 145 - TRANS ENGR CENG 192A - DES METH (2) ENGL 181 - TECH WRIT I (2) <i>FLEX COURSE</i>	CENG 125 - MUNICIPAL ENGR CENG 192C - ADV CAD (2) CENG 193 - PROJECT DES I <i>FLEX COURSE</i>	CENG 194 - PROJECT DES II (1) ENGL 182 - TECH WRIT II (1) <i>FLEX COURSE</i> <i>FLEX COURSE</i> <i>FLEX COURSE</i>
<i>THE 9 FLEX COURSES MUST INCLUDE 3 CENG TECHNICAL ELECTIVES, ELEN 50, AND 5 UNIV CORE REQUIREMENTS</i>			