Rev. 10/18 UNDERGRADUATE COURSE SEQUENCE ENC 1101 CHM 1045 CHM 1045L SLS 1501 MAC UCC Social Science: General Chemistry I General Chemistry I Writing & Freshman 2311/2281 Group One (3) (3)Lab (1) Experience (1) Rhetoric I (3) Calculus I (4) EGN 1110C MAC PHY 2048L ENC 1102 PHY 2048 CGN 2161 Engineering 2312/2282 General Physics Writing & Physics with CivE Career Calculus II (4) Drawing (3) Lab I (1) Rhetoric II (3) Calculus (4) Orientation (1) CHM 1046 CHM 1046L CGN 2420 MAC UCC Social Science: UCC Humanities: General General Chemistry II Computer Tools 2313/2283 Group Two (3) Group One (3) Chemistry II (3) for CE (3) Lab (1) Calculus III (4) PHY 2049 MAP 2302 EGS 2030 EGN 3311 UCC Humanities: GLY1010(3)& Physics with Ethics & Legal Differential Statics (3) GLY 1010L(1) Group Two (3) Calculus II (4) Issues (1) Equations (3) ENV 3001 (GL) ENV 3001L EGM 3520 EGM 3520L EGN 3321 SUR 2101C UCC Arts Environmental Environmental Mechanics of Materials Dynamics (3) Surveying (3) (3) Engineering (3) Lab I (1) Materials (3) Testing Lab (1) CES 3100 EGN 3613 STA 3033 Prob. & Statistics (3) ENC 3213 CWR 3201 CWR 3201L Engineering Technical Structural Fluid Mechanics Fluids Lab Analysis (3) EIN 3235 Eval. of Eng. Data (3) Economy (3) Writing (3) (3)(1) CEG 4011 CES 4702 TTE 4201 CEG 4011L CWR 3540 CE Geotechnical Reinforced Concrete Transportation & Soil Testing Lab Water Resources Elective (3) Traffic (3) Engineering I (3) Design (3) (1) (3)CGN 4802 CE CGN 4980 CCE 4031 CE CE CE. Senior Design CE Seminar (1) Project Planning Elective (3) Elective (3) Elective (3) Project (3) To pass FE Exam For CE (3) **Environmental and Water Resources Electives*** Structures/Geotechnical/Construction Electives* CGN 4321 GIS Applications in Civil and Env. Eng. CCE 4001 Heavy Construction CWR 4204 Hydraulic Engineering CEG 4012 Geotechnical Engineering II CWR 4530 Modeling Appl. In Water Resources Eng. CEG 4126 Fundamentals of Pavement Design EGN 4070 Engineering for Global Sustainability and CES 3580 Hurricane Engineering and Global Sustainability (GL) Environmental Protection (GL) CES 4605 Steel Design ENV 4024 Bioremediation Engineering CES 4711 Intro to Prestressed Concrete Structures ENV 4101 Fundamentals of Air Pollution Engineering CGN 4011 Comp. Techniques & Visualization for CE ENV 4330 Hazardous Waste Assessment & Remediation CGN 4510 Sustainable Building Engineering ENV 4351 Solid and Hazardous Waste Management CGN 4930 Spec. Topics: Numerical Methods ENV 4401 Water Supply Engineering ENV 4513 Chemistry for Environmental Engineers Transportation Electives* ENV 4551 Wastewater Treatment Engineering

CEG 4126 Fundamentals of Pavement Design CGN 4321 GIS Applications in Civil and Env. Eng. TTE 4102 **Urban Transportation Planning**

Traffic Engineering TTE 4202

TTE 4203 Highway Capacity Analysis Geometric Design of Highways TTE 4804

ENV 4560 Reactor Design

ENV 4930 Special Topics: Indoor Air Quality

*If 3 electives are taken in 1 area, student will receive a certificate.

(GL) indicates Global Learning course. Students are required to take 2 GL courses, and at least 1 must be discipline-specific.

GL Foundations	GRW-1 GRW-2	FLENT/FLEX	Civics Literacy
GL Discipline	GRW-2	Summer Req.	