## Bachelor of Science in Civil Engineering Progression Flowchart (BSCE: 132 credits) 2022-2023 Lawrence Freshman Year Sophomore Year Senior Year Junior Year 16 credits 16 credits 17 credits 18 credits 18 credits 16 credits 15 credits 16 credits EGE 3022\* COM 2103 Leadership & Prof. Tech & Prof. Comm LLT 1213 LLT/SSC/PSY 3xx3 or 4xx3 LLT 1223 Dev for Engr (A) World Masterpieces 1 Jr/Sr Elective World Materpieces 2 (F, SP) (A) (A) COM 1103 (A) EME 3043 SSC 2423 College Composition Dynamics Develop. Amer. (A) (A) Experience SSC 2413 ECE 4263 (1) (A) Foundations Amer. Cost Estimating, Bidding & CHM 1221 Experience Contracting EGE 3012 \* (A) University Chem Lab 1 (SP) **Engineering Cost** (A) FCF 3324 Analysis Environmenta GLG 1103 (A) Engineering 1 ECE 4343 (1) Geology (SP) Environmental (F, SP) CHM 1213 ++ ECE 4544 Engineering 2 University Chem. 1 Hydraulic Engineering EGE 2013 (SP) (A) (F) Statics (A) ECE 1102 ECE 4363 (3) CE Comp. Appl. Lab. ECE 3424 Environmental ECE 1011 +++ ECE 3523 (Cal. 1 or Instructor's Soil Mechanics Civil Eng. Perspective Engineering Design Hydromechanics Permission) (F) ECE 4761 (F) (F) (F, SP) (SP) PHY 2413 \*\*\* Structural Design & PHY 2423 University Physics 2 Test Lab ECE 3013 University Physics 1 (SP) (A) ECE 4443 (3) (A) Mechanics of Foundation Engineering Materials for CE (F, SP) MCS 1414 ECE 4743 PHY 2421 PHY 2431 Calculus 1 MCS 1424 ECE 3011 Concrete Design ECE 3723 Physics 1 Lab Physics 2 Lab Calculus 2 (A) (F, SP) Mechanics of Theory of Structures (A) (A) (A) Materials for CE Lab (F, SP) ECE 4753 (3) (F, SP) Steel Design MCS 2414 (F) Calculus 3 ECE 4733 (1) ECE 3213 EGE 1001 (A) Advanced Structural Construction Fund. of Engineering Analysis Engineering Design Projects MCS 2423 (SP) (F. SP) (F, SP) Differential Equations (A) ECE 1413 C.E. Materials ECE 3211 ECE 1101 (SP) Construction ECE 4563 (1) C.E. Computer MCS 3403 Engineering lab Hydrology Graphics Lab.(F) EGE 2123 Probability & (F, SP) (SP) Entrepreneurial Statistics Engineering Design (A) ECE 4243 \*\* Studio ECE 1013 (F,SP) ECE 3821 Construction Project Survey & Land Meas. Management Transportation (F) (F, SP) Engineering Lab (F) ECE 4051 Ethics & Prof Issues (\*\* or ECE 3823 Key: Dept. Chair's permission) ECE 4843 (3) Transportation (SP) Highway Engineering Engineering H.S. Algebra (F) (F) H.S. Chemistry H.S. Trigonometry Junior standing Technical Elective (TE) Courses Criteria: ECE 4011 (0) ECE 4012 (0) Semester Hours: Senior standing (a) TE courses are indicated by boxes with Rounded Corners. Design for CE Design for CE Select Four TE courses giving a total TE credits of least 12. PHY1154 or Placement Test required Competition 1 (F) Competition 2 (SP) Freshman 0 - 20Sophomore 30 - 59Crossover (b) The selected Four TE courses MUST have a Total Design Junior 60 - 89Credits equal to or exceed 7. Desing Credits are indicated by Senior => 90 ECE 4032 Course 2 may be taken ECE 4022 the number in (...) to the right side of each TE course number. concurrently with 1 (or Course 1 CE Design Project 2 CE Design Project 1 may be taken without 2 (\*\* & Dept. Chair's (c) The selected Four TE courses MUST include at least ONE (\*\* & Dept. Chair's EaJensen, Ph.D. course with the icon Permission) Permission) Courses 1 & 2 must be taken Effective: Dec. 2022 (SP) (F) concurrently