LAUWRENCE TECHNOLOGICAL UNIVERSITY
Civil Engineering Curriculum (132 credits) 2012-2013

Freshman Year

- COM1103 English Comp.
- ECE1102 C.E. Comp. Appl. Lab. (Cal. 1 or Instructor’s permission)
- CHM1213** University Chemistry 1
- CHM12121 University Chem. 1 Lab
- COM1001 University Seminar
- LLT1213 World Masterpcs 1
- ECE1012*** Civil Engr. Perspectives
- GLG1103 Geology
- MCS1414 Calculus 1
- ECE1013 Survey & Land Meas.
- ECE1101 C.E. Comp. Graphics Lab.
- EMC1413 CE Materials
- MCS2414 Calculus 3
- ECE1013 Survey & Land Meas.
- PHY2413 University Physics 1
- MCS2423 Differential Equations
- ECE102 C.E. Comp. Appl. Lab. (Cal. 1 or Instructor’s permission)

Sophomore Year

- COM2103 Tech. & Prof. Comm.
- LLD1223 World Masterpcs 2
- PHY2421 Univ. Physics 1 Lab.
- ECE1413 CE Materials
- MCS1424 Calculus 2
- ECE2103 Comp. Aided Infra. Planning
- ECE2103 Comp. Aided Infra. Planning
- ECE4022 CE Design Proj. 1 (**, ** and Dept. Chair’s permission)
- ECE21013 Comp. Aided Infra. Planning
- LDR2001 Leadership Models & Practices
- LDR3000 Leadership Seminar Series

Senior Year

- SSC2423 Develop. Amer. Exper.
- PHY2431 Univ. Physics 2 Lab.
- PHY2423 University Physics 2
- LDR4000 Leadership Capstone
- ECE4002 CE Design Proj. 2 (** and Dept. Chair’s permission)
- ECE3013 Mechanics of Materials
- ECE3003 Thermodynamics OR EME3043 Dynamics OR EME4513 Intro. to Thermal Systems
- ECE3424 Soil Mechanics
- ECE3201* Engineering Cost Analysis
- ECE3324 Environ. Engineering 1
- ECE4051 Ethics & Prof. Issues (**, ** and Dept. Chair’s permission)
- ECE3324 Environ. Engineering 1
- ECE4363 Environ. Engineering Dsn.
- ECE4544 Hydraulic Engineering
- ECE4733 Concrete Design
- ECE4563 Hydrology
- ECE4843 Highway Engineering
- ECE4761 Structural Dsn. & Test Lab.
- ECE4443 (3) Foundation Engineering
- ECE4263 Cost Est., Bidding & Contracting
- ECE443 (1) Environ. Engineering 2
- ECE4032 CE Design Proj. 2 (** and Dept. Chair’s permission)
- ECE4243 C. E. Mgmt. Practices
- LDR3000 Leadership Seminar Series
- LDR4000 Leadership Capstone

Technical Elective (TE) Courses Criteria:
(a) TE courses are indicated by Shadow Boxes. Select Four TE courses that will give a Total TE Credits of at least 12.
(b) The selected Four TE courses must also have a Total Design Credits equal to or exceed 7. Design credits are indicated by the number in (…) beside each TE course.
(c) The selected Four TE courses must include at least one course with the icon.

Legend:
+ H. S. Algebra
++ H. S. Chemistry
+++ H. S. Trigonometry
* Junior standing
** Senior standing
*** PHY1154 or Placement Required
# Take exam on completion of 55-80 credit hrs.
(3) Design credits = 3

Semester Hours:
Freshman 0 - 29
Sophomore 30 - 59
Junior 60 - 89
Senior ≥ 90

E. M. Yuen, Ph.D., P.E.
Effective: Sept. 2012