CHECKLIST FOR GRADUATION REQUIREMENTS IN ENGINEERING - BACHELOR OF SCIENCE

Name__________________________ SSN______________________ H.S. deficiencies: Math ___ Foreign Language ___

General Studies Requirements
(General Studies must total at least 59 s.h.)

FIRST-YEAR CORE:

GST 110 - Global Experience (4 s.h.)
ENG 110 - College Writing (4 s.h.)
MTH 110 (or higher) (4 s.h.)
HED 110 - Wellness (3 s.h.)

Experiential Learning Requirement (ELR): (One Unit)
[May be met by any one of the following: internship, practicum, co-op, study abroad, student teaching, or an approved field-based course. Also may be met by service, leadership, or individualized learning experience.]

LIBERAL STUDIES:

Expression (8 s.h.)

Civilization (8 s.h.)

Society (8 s.h.)

Science: CHM 111-113 Lab: CHM 112-114 (8 s.h.)

ADVANCED STUDIES (Must be outside major)

MTH (8 s.h.)

GST Interdisciplinary Seminar (4 s.h.)

*Required in major; may count in General Studies.

Major Requirements
A minimum of 68-76 s.h. in the following courses is required.

Core Requirements (52 s.h.):

CHM 111 (3) - General Chemistry I
CHM 113 (1) - General Chemistry I Lab
CHM 112 (3) - General Chemistry II
CHM 114 (1) - General Chemistry II Lab
PHY 113 (4) - General Physics I with Calculus
PHY 114 (4) - General Physics II with Calculus
MTH 121 (4) - Calculus and Analytic Geometry I
MTH 221 (4) - Calculus and Analytic Geometry II
MTH 321 (4) - Calculus and Analytic Geometry III
MTH 421 (4) - Differential Equations
CSC 130 (4) - computational Programming
EGR 101 (1) - Intro to Engineering
EGR 102 (1) - Intro to Engineering Design
EGR 206 (3) - Engineering Mechanics - Statics
EGR 208 (3) - Engineering Mechanics - Dynamics
EGR/PHY 211 (3) - Circuit Analysis
EGR/PHY 212 (1) - Circuit Analysis Lab
EGR/PHY 310 (4) - Engineering Thermodynamics

Choose one of the following concentrations:

Engineering Physics (16 s.h.):
PHY 213 (4) - Intro to Modern Physics
PHY 311 (4) - Classical Electrodynamics
Select 8 s.h. of PHYSICS at the 300-400 level (excluding PHY 305)

Engineering Mathematics (24 s.h.):
MTH 231 (4) - Mathematical Reasoning
MTH 311 (4) - Linear Algebra
MTH 312 (4) - Abstract Algebra
MTH 341 (4) - Probability Theory and Statistics
MTH 415 (4) - Numerical Analysis
CSC 230 (4) - Algorithm Development

Computer Science/Engineering (24 s.h.):
MTH 231 (4) - Mathematical Reasoning
CSC 230 (4) - Algorithm Development
CSC 331 (4) - Algorithm Analysis
CSC 342 (4) - Computer Organization
CSC 351 (4) - Theory of Computation
CSC 441 (4) - Computer Architecture & Operating Systems

Senior level course in programming languages at another institution (if electrical or computer engineering.) For another engineering degree, an additional 400-level CSC course is required.