CHECKLIST FOR GRADUATION REQUIREMENTS IN ENGINEERING

Minimum of 132 s.h. required for graduation (36 s.h. must be 300/400-level courses)
(Additional hours to total 132 s.h. - includes second major, minor, and elective hours.)

Name __________________________ I.D. # __________________________ H.S. deficiencies: Math ____ Foreign Language ____

General Studies Requirements
(General Studies must total at least 58 s.h.)

FIRST-YEAR CORE:

GST 110 - Global Experience (4 s.h.)
ENG 110 - College Writing (4 s.h.)
MTH 112 or 121 or 212 (4 s.h.)
HED 111 – Contemp. Wellness Issues (2 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, approved field-based course or documented service, leadership, or individualized learning experience.

Foreign Language Requirement:
May be met by one of the following: scoring 4 or 5 on a language Advanced Placement test; or scoring similarly on the IB Higher Level exam; placing beyond FL 122 on the CAPE placement test; completing a 122-level language course; or completing a semester or summer in a university approved program in a non-English speaking country that includes a course in language study utilized to meet the graduation requirement apply to Civilization category. Students are expected to complete this requirement by the end of their sophomore year.

STUDIES IN THE ARTS AND SCIENCES:
[Transfer students with at least 18 s.h. of transfer credit must complete 32 hours total in Studies in the Arts & Sciences, but may have as few as 7 hours in one or more of the four Studies in the Arts & Sciences areas.]

Expression (8 s.h.)
[Eight hours chosen from at least two of the following: literature (in English or foreign languages), philosophy, & fine arts (art, art history, dance, fine arts, music, music theatre, & theatre arts). At least one course must be literature.]

Civilization (8 s.h.)
[Eight hours chosen from at least two of the following: history, foreign languages, and religious studies.]

Society (8 s.h.)
[Eight hours chosen from at least two of the following: economics, geography, human services - HSS 111 only, political science, psychology, & sociology/anthropology.]

Science *CHM 111-113 Lab: ____; *CHM 112-114 (8 s.h.)
[Eight hours chosen from one or more of the following: mathematics, science, and computer science (CSC designation). At least one course must be a physical or biological laboratory science.]

ADVANCED STUDIES (Must be outside major.)

*MTH (8 s.h.)
[Eight hours of 300-400 level coursework outside the major field and chosen from areas under Studies in the Arts and Sciences.]

GST Interdisciplinary Seminar (4 s.h.)
[300-400 level GST course; requires junior/senior status.]

*Required in major; may count in General Studies.
Select one (1) of the following six (6) options

B.S. in Engineering Physics (16 s.h.):

___ PHY 213 (4) - Intro to Modern Physics
___ PHY 301 (4) – Classical Mechanics and Dynamical Systems
-OR-
___ PHY 311 (4) - Classical Electrodynamics
___ PHY 397-98 (4) – Physics Lab/Seminar
___Select 4 s.h. of PHY at the 300-400 level (excluding PHY 305)

B.S. in 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) – Computer Science II

A.B. in Computer Science/Engineering (24 s.h.)

___ MTH 206 (4) – Discrete Structures
-OR-
___ MTH 231 (4) – Mathematical Reasoning
___ CSC 230 (4) – Computer Science II
___ CSC 330 (4) – Computer Science III
___ CSC 331 (4) - Algorithm Analysis
___ CSC 342 (4) - Computer Systems
___ CSC 442 (4) – Mobile Computing

A.B. in Chemistry/Chemical Engineering (22 s.h.)

___ CHM 125 (1) - Chemical Literature
___ CHM 205 (4) - Inorganic Chemistry I
___ CHM 211 (3) - Organic Chemistry I
___ CHM 213 (1) - Organic Chemistry Lab I
___ CHM 212 (3) - Organic Chemistry II
___ CHM 214 (1) - Organic Chemistry Lab II
___ CHM 311 (4) - Quantitative Analysis
___ CHM 332 (4) - Physical Chemistry I
___ CHM 461 (1) - Senior Seminar

A.B. in Environmental Studies/Environmental Engineering (30 s.h.)

___ POL 224 (4) – Environmental Policy & Law
___ REL 348 (4) – Environmental Ethics
___ ENS 461 (4) – Senior Seminar
___ CHM 211 & 213 (4) – Organic Chemistry w/Lab
___ BIO 112 & 114 (4) – Intro Population Biology w/Lab
___ ENS 215 (4) – Diversity of Life
___ CE 373 (4) – Fundamentals of Env. Engineering
   (at engineering school)
___ ST 370 (3) – Probability & Stat. for Engineers (at engineering school)

B.S. in Bio-Physics / Biomedical Engineering (24 s.h.)

___ BIO 111/113 (4) – Introductory Cell Biology and lab
___ BIO 162 (4) – Human Physiology
___ BIO 422 (4) – Molecular and Cell Biology
___ PHY 213 (4) – Introduction to Modern Physics
___ PHY 311 (4) – Classical Electrodynamics
___ PHY 397-98 (4) – Physics lab / seminar

___ Major Total