BACHELOR OF SCIENCE IN ENGINEERING & MATHEMATICS
With a concentration in Industrial & Systems Engineering

Student Name  ________________________________________  Catalogue Year 2018 - 2019

GENERAL EDUCATION CORE

INTERDISCIPLINARY STUDIES (1-4 SH)
FYS 1100  (3)  EGR 1100  (3)
IDS 2100  (1)  EGR 1200  (3)

COMPUTER COMPETENCY (0-3 SH)
CSC 1000 *  (0-3)  EGR 2100  (3)
(Must be satisfied before completing 60 s.h.)  EGR 2300  (3)

COMMUNICATIONS (6-12 SH)*
English Placement Score (transfer students)
ENG 1000 (if required)  (3)  ISE 3200  (3)
ENG 1010  (3)  ISE 3300  (3)
ENG 1020 or 1040  (3)  ISE 3500  (3)
ENG 2070 (if required)  (3)  MAT 2310  (3)
AOL 1510 or 3540*  (0-3)  MAT 2320  (3)

GLOBAL PERSPECTIVE ELECTIVE (3 SH)
Choose one approved course**  (3)

HUMANITIES (9 SH)
Literature (except ENG 3610 or 3620)  (3)
History  (3)
Religion  (3)

FINE ARTS APPRECIATION (3 SH)
ARH 1510, 2530, 2540, MUS 1510, 1520, 1600, 1610, THE 1620
1630 or 3 s.h. applied MUS/THE ensemble  (3)

MATHEMATICS (3-6 SH)
MAT 1030 (if required)  (3)
MAT 1050/1100 (or higher, except 1060 or 2060)

NATURAL SCIENCES (6-8 SH) Students will not receive
General Education Credit for both SCI1410 and GLY 1600;
SCI 1420 and BIO 1530; or SCI 1430 and CHE 1510
(3/4)
(3/4)

SOCIAL SCIENCE (3 SH)
ECO, PSC, PSY or SOC
(3)

WELLNESS (2-3 SH)
WEL 1010 and  (1)  CHE 1510  (4)
WEL 2010 or 2350 or  (1)  ENG 3210  (3)
WEL 2180 or PXS 2900  (3)  PHY 2510  (4)

LIBERAL ARTS ELECTIVE (3 SH)
Choose one approved course***  (3)  PHY 2520  (4)

LIBRARY COMPETENCY COMPLETED
(Must be satisfied before completing 60 s.h.)

TOTAL  36-52 SH

Engineering (27 sh)
EGR 1100  (3)  EGR 3200  (3)
EGR 1200  (3)  EGR 3310  (3)
EGR 2100  (3)  EGR 3320  (3)
EGR 2300  (3)  # EGR 4900  (3)
EGR 3100  (3)

Industrial & Systems Engineering Concentration (18 sh)
# ISE 3200  (3)  ISE 4200  (3)
ISE 3300  (3)  ISE 4310  (3)
ISE 3500  (3)  ISE 4320  (3)

Mathematics (33 sh)
MAT 2310  (3)  MAT 3100  (3)
MAT 2320  (3)  MAT 3120  (3)
MAT 2500  (3)  MAT 3160  (3)
MAT 2600  (3)  MAT 4110  (3)
# MAT 3050  (3)  MAT 4140  (3)
MAT 3090  (3)

Engineering/Mathematics Elective (3 sh)
EGR 3140  (3)

Engineering/Mathematics Capstone (3 sh)
MAT 4800  (3)

Other Required Courses (21 sh)

# Writing enrichment course

GRADUATION REQUIREMENTS
1. Minimum 124 semester hours.
2. 31 semester hours in residency to include 50% of the major/minor and 24 semester hours at the 3000/4000 level.
3. GPA of 2.000 or higher required in (A) overall, (B) residency, (C) major, (D) minor, and (E) concentration.
4. Satisfactory completion of the English Placement Examination or ENG 2070 is a graduation requirement for all transfer students.
5. Errors contained on this checksheet do not release the student from meeting the graduation requirements as stated in the Academic Catalogue.

Updated 9/25/2018
Some General Education core requirements may be filled in the major. Consult Academic Catalogue and Advisor for specific options.

***Students who pass a competency test (administered on a pass/fail basis at no charge) for ACL 1510 and/or CSC 1000 will not be required to take the class for which a test is passed. Passing a competency test will not give a student a grade or the equivalent semester hours for taking the respective course(s), but will satisfy the respective General Education ACL and/or CSC requirement(s). Students are permitted one single attempt to pass a CSC 1000 and/or ACL 1510 competency test.

**The Global Perspective Elective must be a course outside the major, minor or concentration. It can be met by taking a minimum of 3 s.h. from the following:

Foreign Language
Study Abroad (IDS 3550/4550)
International Internship
ACC 4520 International Accounting (Study Abroad)
ACL 3600 Exploring Cross-Cultural Communication
ARH 2530 Survey of Art History I
BUS 3310 Fundamentals of International Business
BUS 3330 International Business Experience (Study Abroad)
BUS/LAW 4850 Special Topics: International Law (Study Abroad)
ECO 4200 Comparative Economic Systems
ECO 4520 International Trade and Finance
ECO 4650 Economic Growth and Development
ENG 2110 English Literature I
ENG 2120 English Literature II
ENG 2310 World Literature I
ENG 2320 World Literature II
ENG 3420 Women's Literature
ENG 3440 American Diversity
ENG 3710 Chaucer
ENG 3730 Literature of Medieval England
ENG 3740 Shakespeare
ENG 3920 19th Century British Literature
ENG 4020 Modernist Literature
ENG 4030 Contemporary Literature
ENG 4850 Special Topics: Legal Dickens
ENM/LAW 2510 Caribbean Natural Resources and Law (Study Abroad)
GEO 2520 Regional Geography
HIS 1030 World History I
HIS 1040 World History II
HIS 2150 Barbarian Invasions
HIS 2170 Race, Ethnicity, and Global Perspective
HIS 2200 World War II

Liberal Arts Electives:

1. The Liberal Arts Elective includes courses in the following areas designated as Liberal Arts in the catalogue:
   Fine Arts, Humanities (ENG, HIS, GEO, PHI, REL, or WRI), Mathematics (MAT), Computer Science (CSC), Natural Science (BIO, CHE, GLY, PHY, or SCI), Foreign Language (FRE, GER, GRK, SPA, or LAN), and Social Science (ECO, PSC, PSY, or SOC). Only the following courses are Liberal Arts Electives for Fine Arts: ARH 1510, 2530, 2540, 3530, 3540; MUS 1510, 1520, 1600, 1610, 1620, 1630, 3620, 3650, or 3 hours in applied music/ensemble or theatre ensemble.

2. The Liberal Arts Elective may not be fulfilled by any course with a prefix within the department sponsoring a declared major, minor, or concentration of the student. For example, a computer science or computer information technology major must fulfill the Liberal Arts Elective requirement by taking a course with a prefix other than CSC, and an English major must fulfill the Liberal Arts Elective requirement by taking a course with a prefix other than ENG or WRI.

3. Courses in areas listed above that emphasize professional preparation and pedagogy cannot be used to fulfill the Liberal Arts Elective. The following courses are not Liberal Arts Electives: ENG 2600, ENG 3600, ENG 3620, LAN 2600, LAN 3300, MAT 1060, and MAT 2060.

4. Developmental courses cannot be used to fulfill the Liberal Arts Elective. The following courses are not Liberal Arts Electives: ENG 1000 and 2070; ESL 0910, 0920, 0960, 0970, 1210, 1220, and 2070; and MAT 1030.

5. Courses that fulfill the General Education curriculum outside the Liberal Arts Elective may not be used to fulfill the Liberal Arts Elective. The following courses are not Liberal Arts Electives: CSC 1000, ENG 1010, ENG 1020, and ENG 1040.

6. Special Topics courses may not be used to fulfill the Liberal Arts Elective.

7. Courses considered to be capstone courses by any program may not be used to fulfill the Liberal Arts Elective.

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