

BACHELOR OF SCIENCE IN ENGINEERING

With a concentration in Industrial & Systems Engineering

Student Name _____

Catalogue Year 2020 - 2021

GENERAL EDUCATION CORE

INTERDISCIPLINARY STUDIES (1-5 SH)

MUJ 1100 (2) _____
MUJ 2200 (1) _____
MUJ 3300 (1) _____
IDS 2100 (1) _____

COMPUTER COMPETENCY (0-3 SH)

CSC 1000 *** (0-3) _____
(Must be satisfied before completing 60 s.h.)

COMMUNICATIONS (6-12 SH)*

ENG 1000 (if required) (3) _____
ENG 1010 (3) _____
ENG 1020 or 1040 (3) _____
ACL 1500,1510, 3540 or 3600*** (0-3) _____

GLOBAL PERSPECTIVE ELECTIVE (3 SH)

**Choose one approved course (3) _____
(see page 2)

HUMANITIES (9 SH)

Literature (no ENG 1020, 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)
(3) _____

NATURAL SCIENCES (6-8 SH)

Students will not receive
General Education Credit for both SCI1410 and GLY 1600;
SCI 1420 and BIO 1530; or either SCI 1430, CHE 1510, or PHY 1510
(3/4) _____
(3/4) _____

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

(3) _____

WELLNESS (2-3 SH)

WEL 1010 and (1) _____
WEL 2010 or 2350 or (1) _____
WEL 2180 or PXS 2900 (3) _____

LIBERAL ARTS ELECTIVE (3 SH)

Choose one approved course (see p. 2) (3) _____

LIBRARY COMPETENCY COMPLETED

(Must be satisfied before completing 60 s.h.)

TOTAL 39-54 SH

REQUIRED ENGINEERING (EGR) COURSES:

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) _____ EGR 4910 (3) _____

REQUIRED SCIENCE COURSES:

CHE 1510 (4) _____
PHY 2510 (4) _____
PHY 2520 (4) _____

REQUIRED MATHEMATICS COURSES:

MAT 2310 (3) _____ MAT 3090 (3) _____
MAT 2320 (3) _____ MAT 3100 (3) _____

REQUIRED ECONOMICS COURSE (select 1):

ECO 2610 (3) _____ ECO 2620 (3) _____

OTHER MAJOR COURSE REQUIREMENTS:

ENG 3210 (3) _____

INDUSTRIAL & SYSTEMS ENGINEERING (ISE) CONCENTRATION COURSES:

ISE 3200 (3) _____ ISE 4200 (3) _____
ISE 3300 (3) _____ ISE 4310 (3) _____
ISE 3500 (3) _____ ISE 4320 (3) _____

CONCENTRATION MATHEMATICS REQUIREMENT:

MAT 3120 (3) _____

ENGINEERING ELECTIVE: Select a minimum of 3 sh from:

EGR 4850 (3) _____ ISE 4850 (3) _____
EGR 4990 (1-4) _____ ISE 4990 (1-4) _____
ISE 4400 (3) _____

MATHEMATICS/SCIENCE ELECTIVE: Select a minimum of 3 sh from:

BIO 1530 (4) _____ MAT 2510 (3) _____
BIO1560 (4) _____ MAT 3140 (3) _____
BIO 3060 (4) _____ MAT 4110 (3) _____
BIO 3080 (4) _____ MAT 4140 (3) _____
CHE 1520 (4) _____ MAT 4150 (3) _____
CHE 3210 (4) _____ PXS 2850 (3) _____
CHE 3220 (4) _____ PXS 3120 (3) _____
ENM 2010 (3) _____ PXS 4040 (3) _____
ENM 3010 (3) _____

Or other mathematics/science courses approved by the Engineering Program

Writing enrichment course

Additional Course Requirements to Meet 124 sh (if needed)

Electives _____ () _____

GRADUATION REQUIREMENTS

1. Minimum 124 semester hours to graduate.
2. 16 semester hours in residency for associate's degrees.
31 semester hours in residency for bachelor's degrees.
3. GPA of 2.000 or higher required overall and in the major.
4. Errors contained on this checksheet do not release the student from meeting the graduation requirements as stated in the Academic Catalogue.

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 can be met by taking a minimum of 3 s.h. from:

Foreign Language

Study Abroad (IDS 3550/4550)

International Internship

ACC 4620 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)

ENP 3300 International Entrepreneurship

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

HIS 3010 Modern Asian History

HIS 3050 Islam and the Islamic World

HIS 3250 Modern History

HIS 3310 Topics in Latin American History

HIS 3700 Contemporary World History

HIS 3850 Special Topics: Medieval Britain

HIS 4110 Modern Russia

LAN 3200 Introduction to Linguistics

LSS 2850 Special Topics in Leadership: Ultimate Journey

MKT 4100 Global Marketing

PSC 2270 Comparative Politics

PSC 3510 International Relations

PSC 4010 European Politics

PSC 4020 Middle East Politics

PSC 4040 Politics in East Asia (Study Abroad)

PSC 4050 Latin American Politics (Study Abroad)

PSC 4400 International Organizations

PSC 4510 International Political Economy

REL 1030 Introduction to Religion

REL 1040 Introduction to Biblical Literature*

REL 1070 Religion and Film

REL 1500 Religions of Asia

REL 1510 Monotheistic Religions

REL 2010 Survey of Hebrew Bible

REL 2020 Survey of the New Testament

REL 3010 The Hebrew Prophets*

REL 3020 Jesus and the Gospels

REL 3520 Modern Religious Thought

REL 4040 Myth and Culture

REL 4050 Early Christianity

REL 4060 Reformation Europe

SOC 2530 Global Social Problems

SOC 2560 Cultural Anthropology

THE 3110 Theatre History and Literature I

THE 3120 Theatre History and Literature II

**Course no longer offered*

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), Social Science (ECO, PSC, PSY, or SOC), and WST 2000. Only the following courses are Liberal Arts Electives for Fine Arts: ARH 1510, 2530, 2540, 3530, 3540; MUS 1510, 1520, 1600, 1610; THE 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; ESL 0910, 0920, 0960, 0970, 1210, 1220; 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.

Errors contained on this checksheet do not release the student from meeting the graduation requirements as stated in the Academic Catalogue.