Interdisciplinary Engineering Flowchart

Cr. Count
15 15 Writing and Rhetoric I 1.14
ENC 1101

First Year Experience 3.14
SLS 1501

Calculus I for Eng. 4.15
MAC 2281 or MAC 2311

General Chemistry I & Lab 5.15
CHM 1045 & L

Fall/Spring

15 30 Writing and Rhetoric II 1.14
ENC 1102

Calculus II for Eng. 5.15
MAC 2282 or MAC 2312

Physics with Calculus I & Lab
PHY 2048 & 2048L 1.15

Fall/Spring

15 45 Humanity I (Group I) 0.14
Suggested: HUM 1020
Intro to Humanities

Calculus III for Eng. 15
MAC 2283 or MAC 2313

Physics with Calculus II & Lab
PHY 2049 & 2049L 1.15

Fall/Spring

16 61 Humanity II (Group II) 0.14
Suggested: WOH 2001
World Civilizations

Statics 16
EGN 3311

Dynamics 16
EGN 3321

Differential Equations 15
MAP 2302

Circuit Analysis & Lab 16
EEL 3110C

Spring

16 77 Social Science (Group II) 0.14
Required: ECO 2023
Microeconomics

Fluid Mechanics & Lab
CWR 3201 & 3201L 10.16

Evaluation of Eng. Data 8.18
ESI 3215

Eng. Prof. Development
for a Global Society 16, 17
EGN 3060 (GL)

Fall

16 93 Arts 0.14
Suggested: SPC 2608
Public Speaking

University-wide Elective
(UWE – 4 credits) 16

Materials in Engineering
EGN 3365 16

Engineering Economy 16
EGN 3613

Spring

15 108 University-wide Elective
(UWE - 3 credits) 6.16
GL Discipline Specific

Eng. Secondary Field
(ESF) Course 11.16

Eng. Secondary Field
(ESF) Course 11.16

Eng. Secondary Field
(ESF) Course 11.16

Eng. Secondary Field
(ESF) Course 11.16

Business Leadership
(BL) Course 12.16

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(BL) Course 12.16

Business Leadership
(BL) Course 12.16

Ide Capstone Design 1 10.16
EGN 4943 (GL)

Ide Capstone Design 2 10.16
EGN 4944 (GL)

Fall/Spring/Summer

12 120 Engineering Secondary Field 12 credits

Eng. Business & Leadership 12 credits

Interdisc. Proj. Experiences 12 credits

Summer 2022 Rev 5/9/2022

Other Requirements (Must be completed for graduation):
GWR1:______ GWR2:______ Foreign Language:_____ 9 Summer Credit Hours:______ UCC:______ Civics:______
GL1:______ GL2:______ ESF:_____ /12crd BL:______/6crd UWE:______/7crd Total Credits:______ / 120

University Core Curriculum (UCC): 19 credits
Common Pre-requisites: 35 credits
Eng. Foundation: 23 credits
University Wide Electives: 7 credits
Notes

0 ECO 2023 is an IDE required common pre-requisite course satisfying UCC Social Science Group 2. A list of alternative courses that fulfill other UCC categories can be found at: https://acs.fiu.edu/offices-services/advising/university-core-curriculum-updated-6-17-20.pdf.

1 Students w/> 30 transfer credits may be able to substitute ENC 1101 & ENC 1102 with: 1) ENC 2301 and 2) one of the following: ENC 3211, ENC 3311 or ENC 3317.

2 Waivable for AA transfer students; other transfer students should see an advisor; may substitute with department-specific equivalents (EGS 1006, EGN 1002 and ECS 2030). These courses are not required for students who select EGN 2053 Foundations of Interdisciplinary Engineering.

3 Students w/> 30 transfer credits may be able to waive SLS 1501.

4 Prerequisite: MAC 1105 + MAC 1147

5 Prerequisite: Second year high school algebra or MAC 1105 College Algebra

6 Alternative course list found at: https://goglobal.fiu.edu/courses/discipline-specific-course-list/

7 May substitute with EML2032, COP 2210, COP 2250, COP 2270 or other approved programming course.

8 May substitute with STA 3033 or STA 3111.

9 The IDE Capstone Design sequence is taken in two consecutive semesters starting in the junior year.

10 May be substituted via EML 3126 & EML 3126L, EGN 3343 or other approved Engineering Science course. If the replacement course is 3 credits the student may take an approved Engineering Lab coupled with an approved ESF course to make up the credit deficiency.

11 Students must select twelve credits of additional required or elective courses in a degree-granting ABET-accredited program in the College of Engineering and Computing (CEC) to form a coherent secondary field. At least nine credits must be upper division (3000+ level) courses hosted in CEC. Must be pre-approved by SUCCEED.

12 List held by SUCCEED.

13 EGN 3945, pre-approved, co-op or independent study are recommended. Project course in engineering (list held by SUCCEED).

(*) EGN 2053 can be taken together with EGN 3910 but NOT together with EGN 4943.

Minimum Passing Grades

14 Courses that are part of the University Core Curriculum (UCC) that are not Gordon Rule can be passed with a D, otherwise a grade of C or better is required. See note “0” for the University Core Curriculum (UCC) requirements.

15 CHM, MAC, MAP, PHY prefix courses must be passed with C or better.

Courses that are part of the student's study plan can be passed with a D unless a grade or C or higher is required by the teaching department to register for another course in the student's current study plan.

Engineering Secondary Field Courses (12 credits)
Can be required or elective engineering courses in a degree-granting ABET-accredited program in the College of Engineering and Computing (CEC) and form a coherent secondary field. At least nine credits must be upper division courses hosted in CEC. See advisor for approval. Coherent course prefixes may include:
- Biomedical Engineering: BME;
- Civil, Environmental Engineering: CES, CGN, CWR, EGM, EGN, ENV, TTE;
- Electrical, Computer Engineering: EEL, EEE, TCN, CNT;
- Mechanical Engineering: EGM, EGN, EMA, EML, EAS;
- Industrial Engineering: EIN, ESI;

Business Leadership Courses (6 credits)
List held by SUCCEED. Courses may include: EGS 3060, MAN 3022, MAR 3023 (GL), EEL 4933, EEL 4062, EEL 4063.

EGS 3060 may be substituted with a SUCCEED approved Business Leadership course.