

FALL

SPRING

SUMMER

FRESHMAN (2018)

+ MAT 131	Calculus I	5
+ PHY 221	Physics I	5
+ CHM 111	Chemistry I	4
IDS 101	Creativity & Innovation	2
IDS 103	Terra Firma I	1
		17

FRESHMAN (2019)

+ MAT 132	Calculus II	5
+ PHY 222	Physics II	5
+ EGR 106	Intro to Eng Design I (GV)	3
IDS 104	Terra Firma II	1
J REL 104	Old Testament	3
		17

2019

o COM 112	Communication in Culture	3
o ENG 212	Writing in Culture	3
		6

SOPHOMORE (2019)

+ MAT 234	Multivariate Calculus	3
+ EGR 107	Intro to Eng Design II (GV)	3
+ EGR 209	Mechanics (GV)	4
+ EGR 220	Data Analysis	1
+ MAT 251	Probability & Stats	3
		14

SOPHOMORE (2020)

+ MAT 2XX	Diff Eq & Linear Algebra	3
+ EGR 250	Materials (GV)	4
+ EGR 214	Circuit Analysis	4
+ EGR 309	Machine Design I (GV)	4
J REL 204	New Testament	3
		18

2020

EGR 380	Engineering Internship I	3
		3

JUNIOR (2020)

EGR 345	System Modeling (GV)	4
EGR 360	Thermodynamics (GV)	4
BIO 151	General Biology	4
PHI 211	Philosophy in Culture	3
		15

JUNIOR (2021)

EGR 226	Digital Systems	4
ECO 241	Environmental Science	4
EGR 437	Environmental Engineering	4
J REL 352	Christian Beliefs & History	3
KIN 1XX	Activity Course	1
		16

2021

EGR 380	Engineering Internship II	3
		3

SENIOR (2021)

EGR 485	Capstone Project & Ethics	1
EGR 336	Project Management	3
Elective	EGR Elective (GV)	4
ECO 341	Ecology	4
KIN 100	Fitness & Wellness	2
		14

SENIOR (2022)

EGR 486	Capstone Project II	2	
ECO 342	Field Biology	4	
HIS 114	World Civ II	3	
		Social Science Course	3
HUM 311	Imagination in Culture	3	
		15	

TOTAL CREDITS

138

GV Course taken at GVSU

+ Engineering Foundations Track (Course required prior to secondary admission into Engineering Degree Program)

J Class taken during J-Term

o Class taken online

ENGINEERING CORE COURSES # HOURS

CHM 111	Chemistry I	4
EGR 106	Intro to Engineering Design I (GV)	3
EGR 107	Intro to Engineering Design II (GV)	3
EGR 209	Mechanics and Machines (GV)	4
EGR 214	Circuit Analysis I	4
EGR 220	Measurement & Data Analysis	1
EGR 226	Intro to Digital Systems	4
EGR 250	Material Science and Engineering (GV)	4
EGR 309	Machine Design I (GV)	4
EGR 345	Dynamics Systems & Modeling (GV)	4

Choose 1 of the following 2 courses

EGR 360	Thermodynamics (GV)	4
EGR 362	Thermal & Fluid Systems (GV)	4
EGR 380	Internship I	3
EGR 380	Internship II	3
EGR 485	Capstone Project & Ethics	1
EGR 486	Capstone Project II	2
MAT 131	Calculus I	5
MAT 132	Calculus II	5
MAT 234	Multivariate Calculus	3
MAT 2XX	Diff Eq. and Linear Algebra	3
MAT 251	Probability & Stats	3
PHY 221	Physics I	5
PHY 222	Physics II	5

TOTAL ENGINEERING CORE 77

TOTAL CORE + MAJOR 104
+ CU FOUNDATIONS 34
TOTAL CREDITS 138

ENGINEERING MAJOR COURSES # HOURS

BIO 151	General Biology	4
ECO 241	Environmental Science	4
ECO 341	Ecology	4
ECO 342	Field Biology	4
EGR 336	Project Management	3
EGR 437	Environmental Engineering	4
<u>Choose 1 of the following electives</u>		
EGR 365	Fluid Mechanics (GV)	4
EGR 463	Alternative Energy Systems (GV)	4

TOTAL ENGINEERING MAJOR 27

CU FOUNDATIONS COURSES

COM 112	Communication in Culture	3
ENG 212	Writing in Culture	3
HIS 114	World Civilization II	3
HUM 311	Imagination in Culture	3
IDS 101	Creativity, Innovation, & Problem Solving	2
IDS 103	CU Foundations I	1
IDS 104	CU Foundations II	1
KIN 100	Total Fitness & Wellness	2
KIN 1XX	Activity Course	1
PHI 211	Philosophy in Culture	3
REL 104	Old Testament Literature	3
REL 204	New Testament Literature	3
REL 352	Christian Beliefs & History	3
Social Science Course (e.g., SOC-111, ECN-232, etc.)		3
Global Studies Requirement (see CU Catalog)		0-3

TOTAL CU FOUNDATIONS 34

For a complete list of courses that satisfy CU Foundations requirements, refer to 2018/19 CU Course Catalog