

# General Engineering B.S. with Engineering Entrepreneur Minor

For students entering Fall 2023

## First Year - Fall Semester

Course	Title	Credits
CHEM121	General Chemistry I	4
MATH121	Calculus I	3
ENGR101	Introduction to Engineering I	1
ECON 101	Economics (EPPS)	3
WRIT102	Research Writing	3
CORE 113	Freshman Academic Seminar	3
CORE103	Community Enrichment Series	0
ENGR192	Freshman Engineering Seminar	0
<b>Total</b>		<b>17</b>

## First Year - Spring Semester

Course	Title	Credits
CHEM122	General Chemistry II	4
MATH122	Calculus II	3
PHYS122	General Physics I	3
ENGR102	Introduction to Engineering II	1
LIT104	LIT103, 201, 202, 207, 270	3
RLST105	Religious Studies	3
CORE104	Community Enrichment Series	0
ENGR193	Freshman Engineering Seminar	0
<b>Total</b>		<b>17</b>

## Second Year - Fall Semester

Course	Title	Credits
MATH221	Calculus III	3
PHYS122/L	General Physics I	4
ENGR210/L	Programming for Engineers	2
ENGR201	Engineering Statics	3
ENGR250	Solid Modeling and CAD	3
HIST1/200	History Elective	3
ENGR292	Sophomore Engineering Seminar	0
<b>Total</b>		<b>18</b>

## Second Year - Spring Semester

Course	Title	Credits
MATH306	Differential Equations I	3
ENGR202	Engineering Dynamics	3
ENGR315/L	Mechanics of Materials	3
ENGR325/L	Fundamentals of Electrical Engineering	3
ENGR279	Sophomore Engr. Design for Service	1
PHIL 205	Philosophy and Reasoning	3
ENGR293	Sophomore Engineering Seminar	0
<b>Total</b>		<b>18</b>

## Third Year - Fall Semester

Course	Title	Credits
MATH322	Linear Algebra	3
ENGR301/L	Fluid Mechanics	4
ENGR321	Applied Engr. Thermodynamics	3
ENGR350	Materials Science	3
MGMT331	Entrepreneurship	3
EXAM301	Writing Competency Exam	0
ENGR392	Junior Engineering Seminar	0
<b>Total</b>		<b>16</b>

## Third Year - Spring Semester

Course	Title	Credits
ENGR335	Engineering Instrumentation	3
ENGR375	Heat Transfer	3
ENGR360	Technical Innovation	3
MGMT332	The Entrepreneurial Mind: Creativity and Innovation	3
FNAR	Fine Arts	3
ENGR379	Junior Engr. Design for Service	1
ENGR393	Junior Engineering Seminar	0
<b>Total</b>		<b>16</b>

## Senior Year - Fall Semester

Course	Title	Credits
ENGR427	Power/Thermal Systems Lab	1
ENGR415	Senior Lab	3
ENGR497	Capstone Design Proposal	1
MGMT333	Social Entrepreneurship	3
EPPS	Social science elective (1/2)	3
DIVER	Diversity requirement	3
PHIL/RLST	Philosophy/Religious Studies Elect.	3
ENGR492	Senior Engineering Seminar	0
<b>Total</b>		<b>17</b>

## Senior Year - Spring Semester

Course	Title	Credits
ENGR498	Capstone Design	3
CORE407	Keystone Seminar	3
MGMT335	Financing Entrepreneurial Ventures	3
EPPS	Social science elective (2/2)	3
LANG	Language requirement	3
ENGR493	Senior Engineering Seminar	0
<b>Total</b>		<b>18</b>

Courses for CORE curriculum

15 Courses for the minor

Total credits

Engineering Entrepreneur Minor (16)

The **Engineering Entrepreneur Minor** offers an exciting path for General Engineers interested in leaving the beaten path and forging their own direction. This **minor** develops in the General Engineer both entrepreneurship and innovative practices in traditional and technical areas. Graduates of this **minor** are well equipped for careers in consulting or in developing new technologies or new technical startup companies.

Credits

4  
3  
4  
1  
3  
3  
0  
0  
18

- [ENGR 103 - Technical Applications of sUAS](#), 1
- [ENGR 360 - Technical Innovation](#), 3
- [MGMT 331 - Entrepreneurship](#), 3
- [MGMT 332 - The Entrepreneurial Mind: Creativity and Innovation](#), 3
- [MGMT 333 - Social Entrepreneurship](#), 3
- [MGMT 335 - Financing Entrepreneurial Ventures](#), 3

Credits in the General engineering central requirements = 82

Credits in the CORE curriculum 38

Credits in the Minor = 15

Total credits = 136

Credits

3  
3  
3  
4  
2  
3  
0  
18

Credits

1  
3  
3  
3  
3  
3  
1  
17

Credits

3  
3  
3  
3  
3  
0  
15

136