

General Engineering B.S. with Innov/Entrepreneurship and accelerated MBA

For students entering Fall 2024

First Year - Fall Semester

Course	Title	Credits
CHEM 121/L CORE course 9	General Chemistry I / CORE 9 NatSci	4
MATH 121 CORE course 8	Calculus I / CORE 8 Quant	3
ENGR 101 CORE course 1	Engineering CORE 1 (Foundations)	3
CORE course 2	FTAE 105, Intro to Franciscan Theology	3
CORE course 3	WRIT 102 Research Writing	3
ENGR192	Freshman Engineering Seminar	0
Total		16

Second Year - Fall Semester

Course	Title	Credits
MATH221	Calculus III	3
PHYS122/L	General Physics II	4
ENGR210/L	Programming for Eng (1 hr lec, 2 hr lab)	2
ENGR201	Engineering Statics	3
ENGR250	Solid Modeling and CAD	3
ENGR292	Sophomore Engineering Seminar	0
ECON 101 CORE course 4	Economics / CORE II, Civic responsibility	3
Total		18

Third Year - Fall Semester

Course	Title	Credits
MATH322	Linear Algebra	3
ENGR301/L	Fluid Mechanics (3hr L)	4
ENGR321	Applied Engr. Thermodynamics	3
ENGR350	Materials Science	3
Statistics	BUSA311, STAT205, or MATH215	3
ENGR392	Junior Engineering Seminar	0
Total		16

Senior Year - Fall Semester

Course	Title	Credits
ENGR427	Power/Thermal Systems Lab	1
ENGR415	Senior Lab	3
MBA500	Managing People and Organizations	3
CORE course 5	History	3
CORE course 11	Religion or Philosophy	3
CORE course 6	Social Science (Human Geography if approved)	3
ENGR492	Senior Engineering Seminar	0
Total		16

Courses for CORE curriculum
15 Course credits for the minor

First Year - Spring Semester

Course	Title	Credits
CHEM122	General Chemistry II	4
MATH122	Calculus II	3
PHYS121/L	General Physics I	4
ENGR102	Introduction to Engineering Design	1
CORE course 7	Literature	3
ENGR193	Freshman Engineering Seminar	0
Total		15

Second Year - Spring Semester

Course	Title	Credits
MATH306	Differential Equations I	3
ENGR202	Engineering Dynamics	3
ENGR315/L	Mechanics of Materials (3hr L)	3
ENGR325/L	Fundamentals of Electrical Eng (2hr L)	4
ENGR279	Sophomore Engr. Design for Service	2
ENGR335	Engineering Instrumentation (1 lect 1 lab)	1
ENGR293	Sophomore Engineering Seminar	0
Total		16

Third Year - Spring Semester

Course	Title	Credits
CORE course 13	Ethics	3
ENGR375	Heat Transfer	3
ENGR360	Technical Innovation *EOY with senior year	3
ACCT101	Accounting	3
ENGR379	Junior Engr. Design for Service	3
ENGR393	Junior Engineering Seminar	1
ENGR497	Capstone Design Proposal	1
Total		17

Senior Year - Spring Semester

Course	Title	Credits
ENGR498	Capstone Design / CORE 15 (needs approval)	3
ENGR407	Sustainability in Engineering Design / CORE III / CORE 14	3
CORE course 12	Fine Arts	3
CORE course 10	Language / Culture	3
MBA5xx	MBA Entrepreneurship elective (504, 507, 513)	3
ENGR493	Senior Engineering Seminar	0
Optional MBA elective	optional; available for students in the accelerated MBA program	optional 3
Total		15

Total credits 129

*EOY = every other year offering

General Engineering B.S. with accelerated MBA - example MBA paradigm, depending on course availability

SUMMER SEMESTER

MBA501	Financial Decision Making (or in spring as l	3
MBA502	Strategic Marketing for the Global Econom	3
MBA503	Managerial Economics	3
Total		9

MBA total credits required:	36
less U-grad creds:	-6
	30

FALL SEMESTER

MBA504	Leading, Communicating and Building High	3
MBA505	Business Analytics for Decision Making	3
MBA506	Managerial Accounting	3
MBA550	Strategic Management	3
Total		12

OR

MBA total credits required:	36
less U-grad creds:	-9
	27

SPRING SEMESTER

MBA555	Ethical Decision Making and Social Respon	3
MBA512	Ethics in Management (or other elective)	3
Three additional MBA elective credits		3
Total		9