

BIOSYSTEMS ENGINEERING Program (5 Year Model)

Name: _____

Admitted to Biosystems Engineering **September 2020**

Student Number: _____

GRAD Check Completed

Graduation Date: _____

FIRST YEAR				CH	YR Taken	GRADE					CH	YR Taken	GRADE
CHEM 1300	Chemistry (CHEM 1100 & 1122)	3					MATH 1210	C/L Algebra	3				
COMP 1012	Comp Prog Eng	3					MATH 1510	Applied Calculus 1	3				
ENG 1430	Engineering Design	3					MATH 1710	Applied Calculus 2	3				
ENG 1440	Engineering Statics	3					PHYS 1050	Physics	3				
ENG 1450	Intro Elec & Comp Eng	3						Complementary Studies Elective 1	3				
ENG 1460	Thermal Sciences	3						Written Requirement	3				
SECOND YEAR				CH	YR Taken	GRADE					CH	YR Taken	GRADE
BIOE 2590	Biology for Engineers	3					BIOE 2480	Impact of Eng on Enviro	3				
BIOE 2900	Design 1	4					ENG 2022	Eng CAD Technology	3				
CHEM 1310	Intro Physical Chemistry (CHEM 1110 & 1126)	3					STAT 2220	Statistics for Engineers	3				
MBIO 1220	Essentials of Microbiology	3						Complementary Studies Elective 2	3				
THIRD YEAR				CH	YR Taken	GRADE					CH	YR Taken	GRADE
BIOE 2110	Transport Phenomena	3					BIOE 2800	Solid Mechanics	4				
BIOE 2790	Fluid Mechanics	4					MATH 2130	Math Analysis 1	3				
MATH 2132	Math Analysis 2	3					MECH 2150	Mech. Eng. Modelling and Numerical	4				
	Science Elective 1	3/4						Science Elective 2	3/4				
FOURTH YEAR				CH	YR Taken	GRADE					CH	YR Taken	GRADE
BIOE 3400	Des of Struc Comp Mach	4					BIOE 3270	Instrumentation for Biosys	4				
BIOE 3590	Mechanics of Biomater	4					BIOE 3320	Eng Prop of Biolog Mater	4				
BIOE 3900	Design 2	4					MECH 3482	Kinematics & Dynamics	4				
	Complementary Studies Elective 3	3/4						ANTH 2430 or ENG 3020	3				
								BIOE Design Elective 1	4				
FIFTH YEAR				CH	YR Taken	GRADE					CH	YR Taken	GRADE
BIOE 4900	Design 3	4					BIOE 4950	Design 4	4				
BIOE 4240	Graduation Project	3					ENG 3000	Engineering Economics	3				
	BIOE Design Elective 2	4						BIOE Design Elective 3	4				
	Free Elective 1	3/4						Free Elective 2	3/4				

Co-op Option				CH	YR Taken	GRADE
ENG 4800	Co-op Work 1	1				
ENG 4810	Co-op Work 2	1				
ENG 4820	Co-op Work 3	1				

Minor in Agribusiness				CH	YR Taken	GRADE
Must complete 18 cr hr						
ECON 1010		3				
ECON 1020		3				
ABIZ 1000		3				
ABIZ 2510		3				
ABIZ 2520		3				
ABIZ		3				

Minor in Arts				CH	YR Taken	GRADE
Must complete 18 cr hr (6 Hum + 6 Soc Sci + 6 Arts)						
Hum		3				
Hum		3				
SS		3				
SS		3				
Arts		3				
Arts		3				

Minor in Computer Science				CH	YR Taken	GRADE
Must complete 18 cr hr						
CS	COMP 1012 Intro Comp Sci	3				
CS	COMP 1020 Intro Comp Sci 2	3				
CS	COMP 2140 Data Str & Algo	3				
CS	2000 or +	3				
CS	2000 or +	3				
CS	2000 or +	3				

Minor in Geological Sciences				CH	YR Taken	GRADE
Must complete 18 cr hr						
GEOL 1340 or GEOL 2250		3				
GEOL 1400 or GEOL 1410 or GEOL 1420		3				
GEOL 2540		3				
2000 or +		3				
2000 or +		3				
2000 or +		3				

Minor in Management				CH	YR Taken	GRADE
Must complete 18 cr hr						
Mgt		3				
Mgt		3				
Mgt		3				
Mgt		3				
Mgt		3				

Minor in Music				CH	YR Taken	GRADE
Must complete 18 cr hr (no Eng courses apply)						
MUSC 1110 or MUSC 1280		3				
MUSC 1120 or MUSC 1290		3				
MUSC 21380		2				
MUSC 3180		2				
MUSC 4180		2				
MUSC		3				
MUSC		3				

Minor in Math				CH	YR Taken	GRADE
Must complete 24 cr hr						
These math courses are compulsory in the program	MATH 1500 or 1510	3				
	MATH 1700 or 1710	3				
	MATH 1210	3				
	MATH 2130	4				
	MATH 2132	4				
Additional courses	MATH	3				
	MATH	3				
	3000 +	3				
	3000 +	3				

Recommended Courses to be taken prior to applying for Medicine				CH	YR Taken	GRADE
CHEM 2210		3				
CHEM 2360		3				
CHEM 2370		3				

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Total Degree hours: _____

DGPA: _____