BIOSYSTEMS ENGINEERING Program (5 Year Model)

Name: _____ Admitted to Biosystems Engineering **September 2019**

Student Number: _____ GRAD Check Completed ☐ Graduation Date: _____

FIRST YEAR		CH	YR Taken	GRADE			CH	YR Taken	GRADE
CHEM 1300	Chemistry	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	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 (BIOL 1410 or SOIL 4060)	3/4				Science Elective (BIOL 1412 or BIOE 2600)	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		

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Standing:

MINORS

	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		

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	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		

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

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	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		
	MATH	3		
	MATH	3		
Additional courses	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		

Term:
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Standing:

Total Degree hours: _____

DGPA: _____