

# Biosystems Engineering Program Audit Form

Name: \_\_\_\_\_

Admitted to Biosystems Engineering **September 2024**

Student Number: \_\_\_\_\_

FIRST YEAR			CH	YR Taken	GRADE
CHEM 1100	Chemistry 1	<input type="checkbox"/> CHEM 1300	3		
CHEM 1122	Chem Techniques 1		1.5		
COMP 1012	Comp Prog Eng		3		
ENG 1430	Engineering Design		3		
ENG 1440	Engineering Statics		3		
ENG 1450	Intro Elec & Comp Eng		3		
ENG 1460	Thermal Sciences		3		

			CH	YR Taken	GRADE
MATH 1210	C/L Algebra		3		
MATH 1510	Applied Calculus 1		3		
MATH 1710	Applied Calculus 2		3		
PHYS 1050	Physics		3		
	Complementary Studies Elective 1		3		
	Written Requirement		3		

Term: 202490
TGPA:
Standing:

Term: 202510
TGPA:
Standing:

Term:
TGPA:
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Standing:

SECOND YEAR			CH	YR Taken	GRADE
BIOE 2590	Biology for Engineers		3		
BIOE 2900	Design 1		4		
CHEM 1110	Chemistry 2	<input type="checkbox"/> CHEM 1310	3		
CHEM 1126	Chem Techniques 2		1.5		
MATH 2130	Math Analysis 1		3		

			CH	YR Taken	GRADE
BIOE 2480	Impact of Eng on Enviro		3		
ENG 2022	Eng CAD Technology		3		
MATH 2132	Math Analysis 2		3		
STAT 2220	Statistics for Engineers		3		

Term:
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Standing:

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TGPA:
Standing:

THIRD YEAR			CH	YR Taken	GRADE
BIOE 2790	Fluid Mechanics		4		
MBIO 1220	Essentials of Microbiology (or MBIO 1010)		3		
	Complementary Studies Elective 2		3/4		
	Science Elective		3		

			CH	YR Taken	GRADE
BIOE 2800	Solid Mechanics		4		
	Indigenous Knowledge Course		3		
MECH 2150	Mech. Eng. Modelling and Numerical		4		
	Science Elective		3		

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Standing:

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FOURTH YEAR			CH	YR Taken	GRADE
BIOE 3400	Des of Struc Comp Mach		4		
BIOE 3590	Mechanics of Biomater		4		
BIOE 3900	Design 2		4		
BIOE 3110	Heat Transfer in Biological Systems		4		

			CH	YR Taken	GRADE
BIOE 3270	Instrumentation for Biosys		4		
BIOE 3320	Eng Prop of Biolog Mater		4		
MECH 3482	Kinematics & Dynamics		4		
	ANTH 2430 or ENG 3020		3		
	BIOE Design Elective 1		4		

Term:
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Standing:

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Standing:

FIFTH YEAR			CH	YR Taken	GRADE
BIOE 4900	Design 3		4		
BIOE 4240	Graduation Project		3		
	BIOE Design Elective 2		4		
	Free Elective 1		3/4		

			CH	YR Taken	GRADE
BIOE 4950	Design 4		4		
ENG 3000	Engineering Economics		3		
	BIOE Design Elective 3		4		
	Free Elective 2		3/4		

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Indigenous Knowledge Course Options	
INDG 1200	INDG 1220
INDG 1240	INDG 2012 or HIST 2010
POLS 2802	INDG 2020 or HIST 2020
ENG 4100 T03	

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		

Total Degree hours: \_\_\_\_\_

Final DGPA: \_\_\_\_\_

GRAD Check Completed

Graduation Date: \_\_\_\_\_

Science Electives Options	
PLNT 2510	AGEC 2370 or BIOL 2300
ANSC 3530	SOIL 4060
BIOL 1410	BIOL 1412

## BIOSYSTEMS ENGINEERING MINORS

(Check Academic Calendar or UM Achieve for the most up to date Requirements)

Agribusiness					
Must complete 18 credit hours					
Course Taken	Requirements	CH	YR Taken	GRADE	Counted towards degree
	ECON 1010	3			
	ECON 1020	3			
	ABIZ 1000	3			
	ABIZ 2510	3			
	ABIZ 2520	3			
	ABIZ course	3			

Computer Science					
Must complete 18 credit hours					
Course Taken	Requirements	CH	YR Taken	GRADE	Counted towards degree
	COMP 1012 Intro Comp Sci	3			
	COMP 1020 Intro Comp Sci 2	3			
	COMP 2140 Data Str & Algo	3			
	COMP 2000 level or above	3			
	COMP 2000 level or above	3			
	COMP 2000 level or above	3			

Management					
Must complete 18 credit hours					
Course Taken	Requirements	CH	YR Taken	GRADE	Counted towards degree
	Management Course	3			
	Management Course	3			
	Management Course	3			
	Management Course	3			
	Management Course	3			
	Management Course	3			

Math					
Must complete 24 credit hours					
Course Taken	Requirements	CH	YR Taken	GRADE	Counted towards degree
	MATH course	3			
	MATH course	3			
	MATH course	3			
	MATH course	3			
	MATH course	3			
	MATH course	3			
	MATH 3000 level or higher	3			
	MATH 3000 level or higher	3			

Arts					
Must complete 18 credit hours					
Course Taken	Requirements	CH	YR Taken	GRADE	Counted towards degree
	Humanities	3			
	Humanities	3			
	Social Sciences	3			
	Social Sciences	3			
	Arts	3			
	Arts	3			

Geological Sciences					
Must complete 18 credit hours					
Course Taken	Requirements	CH	YR Taken	GRADE	Counted towards degree
	GEOL 1340	3			
	GEOL 1400 or GEOL 1410 or GEOL 1420	3			
	GEOL 2000 level or above	3			
	GEOL 2000 level or above	3			
	GEOL 2000 level or above	3			
	GEOL 2000 level or above	3			

Music					
Must complete 18 credit hours					
Course Taken	Requirements	CH	YR Taken	GRADE	Counted towards degree
	MUSC Course*	3			
	MUSC Course*	3			
	MUSC Course*	3			
	MUSC Course*	3			
	MUSC Course*	3			
	MUSC Course*	3			

Recreation Studies					
Must complete 18 credit hours					
Course Taken	Requirements	CH	YR Taken	GRADE	Counted towards degree
	KPER 1400	3			
	REC 2400	3			
	Elective REC Course (view calendar for list)	3			
	Elective REC Course (view calendar for list)	3			
	Advanced REC Course (view calendar for list)	3			
	Advanced REC Course (view calendar for list)	3			

Leadership for Business and Organizations					
Must complete 18 credit hours					
Course Taken	Requirements	CH	YR Taken	GRADE	Counted towards degree
	GMGT 1010	3			
	GMGT 2060	3			
	GMGT 2070	3			
	LEAD 4010	3			
	Select 3CH from list (view calendar for list)	3			
	Select 3CH from list (view calendar for list)	3			