

## FINISH IN FOUR

## The University of South Dakota Major Credit Hour count: 96 [130 degree] Major: Biomedical Engineering, B.S.

## [2021-2022 Academic Catalog]

First Year - 1st Semester ISCI 151/L: Integrated Science I; or	SGR/Major Requirement	Cr Hrs	<u>First Year - 2nd Semester</u> ISCI 153/L: Integrated Science II; or	SGR/Major Requirement	Cr Hrs
Department-Approved Natural Science*	SGR 6	4	Department-Approved Natural Science*	SGR 6	4
MATH 123: Calculus I	SGR 5+BS	5	MATH 125/L: Calculus II	Major	5
ENGL 101: Composition I	SGR 1	3	CSC 170/L: Programming	Major	3
Fine Arts	SGR 4	3	PHYS 211/L: University Physics I	· ·	3 4
			PH 15 211/L: University Physics 1	Major	4
BME 101/L: Intro to BME/Lab	Major	2		G	
	<b>Semester Credit Hours:</b>	17		<b>Semester Credit Hours:</b>	16
Second Year - 1st Semester	SGR/Major Requirement	Cr Hrs	Second Year - 2nd Semester	SGR/Major Requirement	Cr Hrs
ISCI 225/225L: Integrated Science III/Lab	BS + M	4	ISCI/BME 335/L: Biomedical Technologies/I	Major	4
MATH 225: Calculus III	Major	4	MATH 321: Differential Equations	Major	3
CHEM 326/L or CHEM 310/L: Organic Chemistry	Major	5	CHEM 328/L: O Chem II or CHEM 330:	BS+Major	5
BME 304: BME Fluid Mechanics	Major	3	BME/EM 214: Statics	Major	3
			CMST 101: Fundamentals of Speech	SGR 2	3
	<b>Semester Credit Hours:</b>	16		<b>Semester Credit Hours:</b>	18
Third Year - 1st Semester	SGR/Major Requirement	Cr Hrs	Third Year - 2nd Semester	SGR/Major Requirement	Cr Hrs
BME 303: Introduction to Biomechanics	Major	3	BME 306: BME Thermodynamics	Major -	3
MATH 481: Probability and Statistics (Math					
Minor)	Major	3	BME 305: BME Transport Phenomena	Major	3
BME 300: Quantitative Systems Phys I	Major	3	BME 302: Quantitative Systems Phys II	Major	3
BME/MET 232: Properties of Materials	Major	3	BME 463/L: BME Lab	Major	1
BME/IENG 301: Engineering Economics	Major	2	Social Science	SGR 3	3
ENGL 210: Intro to Literature	BS+ Major	3	Advanced Composition	SGR 1	3
	<b>Semester Credit Hours:</b>	17		<b>Semester Credit Hours:</b>	16
Fourth Year - 1st Semester	SGR/Major Requirement	Cr Hrs	Fourth Year - 2nd Semester	SGR/Major Requirement	Cr Hrs
BME 464: BME Senior Design I	Major	3	BME 465: BME Senior Design II	Major	3
BME 401: Introduction to Biomaterials	Major	3	BME Electives	Major	6
			Department Approved Social Science or		
Engineering Elective	Major	3	Humanities Electives	BS+Major	3
Department Approved Social Science or					
Humanities Electives	BS+ Major	3	Social Science	SGR 3	3
Humanities	SGR 4	3			
	<b>Semester Credit Hours:</b>	15		<b>Semester Credit Hours:</b>	15
				<b>Total Major Requirements</b>	130

\*Department-Approved Natural Science courses that fulfill System General Education Requirement #6 include ISCI 151/L: Integrated Science I, and ISCI 153/L: Integrated Science II; or CHEM 112/L: General Chemistry I, and CHEM 114/L: General Chemistry II (or CHEM 116/L Honors Chemistry), and BIOL 151/L General Biology I. Students with prior course credit or who wish to pursue more than one major should discuss options with an advisor.