

[2021-2022 Academic Catalog]

<u>Year / Semester</u>	SGR/Major Requirement	Cr Hrs	<u>Year / Semester</u>	SGR/Major Requirement	Cr Hrs
<u>First Year - 1st Semester</u>			<u>First Year - 2nd Semester</u>		
ISCI 151/L: Integrated Science I	SGR 6	4	ISCI 153/L: Integrated Science II	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	Major	4
BME 101/L: Intro to BME/Lab	Major	2			0
	Semester Credit Hours:	17		Semester Credit Hours:	16
<u>Second Year - 1st Semester</u>			<u>Second Year - 2nd Semester</u>		
ISCI 225/225L: Integrated Science III/Lab	BS + M	4	ISCI/BME 335/L: Biomedical Technologies/L	Major	4
MATH 225: Calculus III	Major	4	MATH 321: Differential Equations	Major	3
			CHEM 328/L: OChem II or CHEM 330: Struc. Func. Bio	BS+Major	5
CHEM 326/L: Organic Chemistry	Major	5	BME/EM 214: Statics	Major	3
BME 304: BME Fluid Mechanics	Major	3	CMST 101: Fundamentals of Speech	SGR 2	3
	Semester Credit Hours:	16		Semester Credit Hours:	18
<u>Third Year - 1st Semester</u>			<u>Third Year - 2nd Semester</u>		
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
Department Approved Elective: ENGL 210	BS+ Major	3	ENGL 201: Composition II	SGR 1	3
	Semester Credit Hours:	17		Semester Credit Hours:	16
<u>Fourth Year - 1st Semester</u>			<u>Fourth Year - 2nd Semester</u>		
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 Humanities Electives	BS+Major	3
Engineering Elective	Major	3	Social Science	SGR 3	3
Department Approved Social Humanities Electives	BS+ Major	3			0
Humanities	SGR 4	3			
	Semester Credit Hours:	15		Semester Credit Hours:	15
			Total Major Requirements 130		

Notes: New Joint program with SDSM&T 2019-2020