



## The University of South Dakota Major Credit Hour count: 66 Major: Physics- Applied Physics B.S.

## [2021-2022 Academic Catalog]

PHYS 451 Classical Mechanics		4		_	4
Third Year - 1st Semester PHYS 451 Classical Mechanics	SGR/Major Requirement Major	Cr Hrs	Third Year - 2nd Semester PHYS 471 Quantum Mechanics	SGR/Major Requirement Major	Cr Hrs
CSC 155/155L Computer Science I	Major	4	PHYS 439 Solid State Physics	Specialization	3
	3	4	<b>y</b>	_	3
Humanities	SGR 4	3	Additional Social Science/Humanities	BS	3
Electives		3	Electives		6
Licetives	Semester Credit Hours:	14	Electives	Semester Credit Hours:	16
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Fourth Year - 1st Semester	SGR/Major Requirement	Cr Hrs	Fourth Year - 2nd Semester	SGR/Major Requirement	Cr Hrs
PHYS 441 Thermodynamics	Major	2	PHYS 421 Electromagnetism	Major	4
PHYS 454/454L Semiconductor Materials:	·		· ·	ū	
Fundamentals and Fabrication/Lab or PHYS			MATH elective for minor OR credit by		
	G . 1. 4.	4	•	M :	1
456/456L Radiation Detection/Lab	Specialization	4	examination	Major	1
Electives		7	Electives	<u>.</u>	8
	Semester Credit Hours:	13		Semester Credit Hours:	13

**Notes:** \*Students who have not taken a calculus class prior to enrollment in college may wish to delay University Physics until the sophomore year. Students pursuing this option should enroll in chemistry during the first year, and move PHYS 431 & 332 to the junior year. Students who complete the Physics major will have fulfilled the requirements for the Mathematics Minor and are not required to complete an additional minor, although they are welcome to add another minor.