
Freshman Year	F	S
Chem 112*, 112L, General Chemistry I and Lab	4	
Chem 114*, General Chemistry II		3
GE 121, Engineering Design Graphics I	1	
GE 122, Engineering Design Graphics II or GE 123, Computer Aided Drawing		1
Engl 101*, Composition I	3	
Math 123*, Calculus I	4	
Math 125, Calculus II.		4
Phys 211, 211L, University Physics I and Lab		4
SpCm 101*, Fundamentals of Speech		3
SGR Goal 3, (Social Science) * (Catalog p xx)(G)	<u>3</u>	<u> </u>
	15	15

Sophomore Year	F	S
CSc 150, or CSc 213, or CSc 218 (a programming language)		3
EE 220, 220L, Circuits I and Lab	4	
EE 221, 221L, Circuits II and Lab		4
Engl 201*, Composition II, or Engl 277, Tech. Writing in Engineering		3
Math 225, Calculus III	4	
Math 321, Differential Equations		3
Phys 213, 213L, University Physics II and Lab	4	
SGR Goal 3, (Social Science) * (Catalog p xx)	3	
SGR Goal 4, (Humanities and Fine Arts)* (Catalog p xx-xx)(G)	<u>3</u>	<u> </u>
	18	16

Junior Year	F	S
Math 331, Advanced Engineering Mathematics or Math 327, Calculus of Several Variables		3
Phys 316, 316L Meas. Theory and Exp. (AW)	2	
Phys 318, Advanced Lab I		1
Phys 331, Introduction to Modern Physics	3	
Phys 341, Thermodynamics	2	
Phys 343, Statistical Physics	2	
Phys 361, Optics	3	
Phys 451, Classical Mechanics.		4
IGR Goal 1**, (Land & Nat Res.) (Catalog p xx)	3	
IGR Goal 2**, Wellness, (Catalog p xx)		2
IGR Goal 3**, (Soc. Resp.) (Catalog p xx)		3
◇ Technical Electives	<u>2</u>	<u>4</u>
	16	16

Senior Year	F	S
Phys 418, Advanced Lab II.		1
Phys 421, Electromagnetism	4	
Phys 435, Intro. to Nuclear Engineering or Phys 439, Solid State Physics		3
Phys 471, Quantum Mechanics		4
Phys 490, Seminar		1
◇ Technical Electives	<u>12</u>	<u>5</u>
	16	16

- * The 30 credit Board of Regents System General Education Requirements (SGRs) must be completed as part of a student's first 64 credits. See the Catalog, pages xx-xx for details. Courses that are part of these credits are indicated by an asterisk (*). Check especially the six credits for each of goals 3 and 4 which require courses from two different disciplines. The *Physics Major -- Professional Physics Emphasis* curriculum has received an exemption from this requirement in that the second English course may be delayed until the junior year.
- ** South Dakota State University has an 8-9 credit Institutional Graduation Requirement (IGRs). See the Catalog, pages xx-xx for details. These requirements are indicated by a double asterisk (**).
- (G) The BOR General Education requirements (SGRs) include an International/Global Diversity requirement. See the Catalog, page x for details.
- (AW) The BOR General Education requirements (SGRs) include an Advanced Writing requirement. See the Catalog, page x for details.

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

- ◇ Technical electives will be selected with the assistance of the student's advisor from courses offered by the Electrical Engineering, Physics, Computer Science, Chemistry, Biology, and Mathematics departments. A complete list of departmental approved technical electives is available in the Physics Department office. Any departures from this list must be approved by the Head of the Physics Department.

Name _____
Date _____

38 credits in physics

Physics 211, 211L	4	_____
Physics 213, 213L	4	_____
Physics 316	2	_____
Physics 318	1	_____
Physics 331	3	_____
Physics 341	2	_____
Physics 343	2	_____
Physics 361	3	_____
Physics 418	1	_____
Physics 421	4	_____
Physics 435 or 439	3	_____
Physics 451	4	_____
Physics 471	4	_____
Physics 490	1	_____

18 credits in mathematics

Math 123	4	_____
Math 125	4	_____
Math 225	4	_____
Math 321	3	_____
Math 327 or Math 331	3	_____

8 credits in electrical engineering

EE220, 220L	4	_____
EE221, 221L	4	_____

5 credits in miscellaneous engineering courses

GE 121	1	_____
GE 122 or GE 123	1	_____
CSc 150 or CSc 213 or CSc 218	3	_____

7 credits in chemistry

Chem 112 & 112L	4	_____
Chem 114	3	_____

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23 additional credits of technical electives ◇
Physics, Math, Electrical Engineering,
Mechanical Engineering, Chemistry,
Computer Science
 numbered 300 or greater
or other science/technical credits by
 approval of physics department head

21 additional credits of BOR (SGR) requirements

SGR Goal 1, Engl 101*, Composition I	3	_____	
SGR Goal 1, Engl 201*, Composition II (or Engl 277)	3	_____	
SGR Goal 2, SpCm 101,101A*, Fund. of Speech and Lab	3	_____	
SGR Goal 3, Social Science* (Catalog p xx - 2 disciplines)	3	_____	
SGR Goal 3, Social Science* (Catalog p xx-xx) (G)	3	_____	
SGR Goal 4, Humanities & Fine Arts* (Catalog p xx)	3	_____	
SGR Goal 4, Hum. & Fine Arts* (Catalog p xx-xx)(G)	3	_____	
SGR Goal 5, Mathematics * (Catalog p xx) (3)	0	<u>above</u>	Math 123
SGR Goal 6, Natural Science * (Catalog p xx) (6)	0	<u>above</u>	Chem 112,114

8 credits of SDSU (IGR) requirements

IGR Goal 1, Land & Nat Res. (catalog p xx)	3	_____
IGR Goal 2, Wellness (Catalog p xx)	2	_____
IGR Goal 3, Soc Resp. / Cultural (Catalog p xx)	3	_____

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