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<b>Freshman Year</b>	<b>F</b>	<b>S</b>
Chem 112*, 112L, General Chemistry I and associated Lab . . . . .	4	
Chem 114*, General Chemistry II . . . . .		3
GE 121, Engineering Design Graphics I . . . . .	1	
GE 122, Engineering Design Graphics II . . . . .		1
Engl 101*, Composition I . . . . .	3	
GE 101, Introduction to Engineering and Technology . . . . .		1
Math 123*, Calculus I . . . . .	4	
Math 125, Calculus II. . . . .		4
Phys 211**, 211L, University Physics I and Associated Lab . . . . .		4
SpCm 101-101A*, Fundamentals of Speech and Lab . . . . .		3
Gen Ed Social Science* (catalog p35) (G) . . . . .	<u>3</u>	
	15	<u>16</u>

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<b>Sophomore Year</b>	<b>F</b>	<b>S</b>
EE 220, 220L Circuits I and associated Lab . . . . .	4	
EM 214, Statics . . . . .		3
GE 225, Survey of machine Tools Applications . . . . .		1
Math 225, Calculus III . . . . .	4	
Math 321, Differential Equations . . . . .		3
Phys 213, 213L, University Physics II and associated Lab . . . . .	4	
CSc 150, CSc 213, or CSc 218 a programming language . . . . .		3
ME 240, Fundamentals of Mechanical Design . . . . .		3
Gen Ed Social Science* (catalog p35) . . . . .	3	
Gen Ed Humanities and Fine Arts* (catalog p36) . . . . .	3	
Gen Ed Humanities and Fine Arts* (catalog p36-37)(G) . . . . .	<u>3</u>	
	18	<u>16</u>

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<b>Junior Year</b>	<b>F</b>	<b>S</b>
EE 221, 221L, Circuits II and associated Lab . . . . .	4	
EM 331, Fluid Mechanics . . . . .		3
Engl 201*, Composition II, <b>or</b>		
Engl 379, Technical Communications . . . . .		3
Math 331, Advanced Engineering Mathematics <b>or</b>		
Math 327, Calculus of Several Variables . . . . .		3
Phys 316, Measurement Theory and Experiment Design . . . . .	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
SDSU Core: Goal 2**, Human Community, (catalog p39) . . . . .	2	
SDSU Core: Goal 3**, Human Spirit, (catalog p40) . . . . .		<u>2</u>
	<u>18</u>	<u>16</u>

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<b>Senior Year</b>	<b>F</b>	<b>S</b>
Phys 418, Advanced Lab II. . . . .		1
Phys 421, Electromagnetism . . . . .	4	
Phys 435, Intro. to Nuclear Engineering or		
Phys 439, Solid State Physics . . . . .		3
Phys 464, Senior Design I . . . . .	1	
Phys 465, Senior Design II . . . . .		2
Phys 471, Quantum Mechanics . . . . .		4
Phys 490, Seminar . . . . .		1
SDSU Core: Goal 1**, Wellness (catalog p39) . . . . .	2	
SDSU Core: Goal 5**, Stewardship, (catalog p41) . . . . .	2	
◇Technical Electives . . . . .	<u>6</u>	<u>3</u>
	15	14

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The 30 credit Board of Regents General Education requirements must be completed as part of a student's first 64 credits. See the Catalog pages 34-38 for details. Courses that are part of these credits are indicated by an asterisk (\*). Check especially the six credits for goals 4 and 5 which require courses from two different disciplines. The *Engineering Physics -- Mechanical Engineering Track* major has received an exemption from this requirement in that the second English course may be delayed until the junior year. It is recommended that *Econ202, Macroeconomics* (3cr) be one of the elective Social Sciences courses.

(G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See the the Catalog, page 37 for details.

\*\* South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See the Catalog, pages 39-41 for details. These requirements are indicated by a double asterisk (\*\*).

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. Technical electives must be carefully chosen so as to meet the minimum EAC/ABET "Engineering Topics" component. 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 \_\_\_\_\_

41 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 Physics 439 . . . . .	3	_____
Physics 451 . . . . .	4	_____
Physics 464 or ME 477 . . . . .	1	_____
Physics 465 or ME 478 . . . . .	2	_____
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

EE 220, 220L . . . . .	4	_____
EE 221, 221L . . . . .	4	_____

3 credits in mechanical engineering

ME 240 . . . . .	3	_____
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13 credits in miscellaneous engineering courses

GE 101 . . . . .	1	_____
GE 121 . . . . .	1	_____
GE 122 . . . . .	1	_____
GE 225 . . . . .	1	_____
CSc 150, or CSc 213, or CSc 218 . . . . .	3	_____
EM 214 . . . . .	3	_____
EM 331 . . . . .	3	_____

7 credits in chemistry

Chem 112, 112L . . . . .	4	_____
Chem 114 . . . . .	3	_____

9 additional credits of technical electives ◇

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

29 credits in Core requirements

BOR Goal 1, Engl 101*, Composition I . . . . .	3	_____
BOR Goal 1, Engl 201*, Composition II (or Engl 379) . . . . .	3	_____
BOR Goal 2, SpCm 101-101A*, Fund. of Speech and Lab . . . . .	3	_____
BOR Goal 3, Social Science* (Catalog p35) . . . . .	3	_____
BOR Goal 3 & 7, Social Science* (Catalog p35&37) (G) . . . . .	3	_____
BOR Goal 4, Humanities & Fine Arts* (Catalog p36) . . . . .	3	_____
BOR Goal 4 & 7, Hum. & Fine Arts* (Catalog p36&37)(G) . . . . .	3	_____
BOR Goal 5, Mathematics * (Catalog p36) (3) . . . . .	0	<u>above</u> Math 123
BOR Goal 6, Natural Science * (Catalog p37) (6) . . . . .	0	<u>above</u> Chem 112,114
SDSU Core: Goal 1**, Wellness, (Catalog p39) . . . . .	2	_____
SDSU Core: Goal 2**, Human Community, (Catalog p39) . . . . .	2	_____
SDSU Core: Goal 3**, Human Spirit, (Catalog p40) . . . . .	2	_____
SDSU Core: Goal 4**, Science Methods, (Catalog p41) (2) . . . . .	0	<u>above</u> Phys 111 or 211
SDSU Core: Goal 5**, Stewardship, (Catalog p41) . . . . .	2	_____

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