

Sinte Gleska University
Arts & Sciences
BACHELOR OF SCIENCE—ENVIRONMENTAL SCIENCE

Name: _____

Address: _____ Email: _____

Phone #: _____ ID#: _____ Entry Date: _____

CORE/GEN ED REQUIREMENTS:

Must be completed with a grade of "C" or better.

	<u>CR</u>	<u>YEAR</u>	<u>GRADE</u>	<u>COMMENTS</u>
LL 101 Lakota Language I	4	_____	_____	_____
LS 253 Lakota History & Culture	3	_____	_____	_____
EN 101 Freshman English I	3	_____	_____	_____
EN 102 Freshman English II	3	_____	_____	_____
SP 100 Speech Communications	3	_____	_____	_____

Choose ONE Computer Course: CS 101 or DP 107

_____	3	_____	_____	_____
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*Choose ONE Math Course**: MA 150, MA 180, or MA 202*

_____	3/4	_____	_____	_____
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MA 201 Calculus & Analytic Geometry I	4	_____	_____	_____
ESC 101 Environmental Monitoring	3	_____	_____	_____
ESC 209 Environmental Science	4	_____	_____	_____
PL 100 Critical & Creative Thinking^	3	_____	_____	_____
GE 100 Physical Geography Fundamentals ^^	3	_____	_____	_____

Choose ONE social science course: AN 210, EC 203, HS 103, or LS 118

_____	3	_____	_____	_____
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TOTAL CORE/GEN ED REQUIREMENTS 42

DEGREE REQUIREMENTS:

Must be completed with a grade of "C" or better.

	<u>CR</u>	<u>YEAR</u>	<u>GRADE</u>	<u>COMMENTS</u>
BA 380 Ethics	3	_____	_____	_____
BI 151 Biology I	4	_____	_____	_____
BI 152 Biology II	4	_____	_____	_____
BI 310 Ecology	4	_____	_____	_____
CH 151 Chemistry I	4	_____	_____	_____
CH 152 Chemistry II	4	_____	_____	_____
ESC 241 GIS & Remote Sensing	3	_____	_____	_____
ESC 299 Research & Writing in Science	1	_____	_____	_____
ESC 380 Weather & Climate	3	_____	_____	_____

***If student has High School Calculus they do not need to take MA 150, they should then take an MA class higher than 150.*

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ESC 415 Environmental Law	3	_____	_____	_____
ESC 495 Senior Research Seminar I	1	_____	_____	_____
ESC 496 Senior Research Seminar II	2	_____	_____	_____
ESC 498 Undergraduate Research Experience I	4	_____	_____	_____
ESC 499 Undergraduate Research Experience II	4	_____	_____	_____
MA 270 Statistics	3	_____	_____	_____
PH 202 Physics I	4	_____	_____	_____
TOTAL DEGREE REQUIREMENTS	51			

CHOOSE 1 OF THE FOLLOWING EMPHASIS AREAS

*Must have at least 18 upper level (300-400) credits.
 Must be completed with a grade of "C" or better.*

 GENERAL TRACK

 PRE-PROFESSIONAL BIOLOGY **RANGE ECOLOGY & MANAGEMENT**

<u>GENERAL TRACK:</u>	<u>CR</u>	<u>YEAR</u>	<u>GRADE</u>	<u>COMMENTS</u>
_____ Biology elective*	3/4	_____	_____	_____
_____ Chemistry elective *	4	_____	_____	_____
_____ Environmental Science elective*	3/4	_____	_____	_____
_____ Environmental Science elective*	3	_____	_____	_____
_____ Environmental Science elective*	3	_____	_____	_____
_____ Physics/Math Elective (PH/MA)*	3/4	_____	_____	_____
_____ Science elective (BI/CH/ESC/PH)*	3/4	_____	_____	_____
_____ Science elective (BI/CH/ESC/PH)*	3	_____	_____	_____
_____ Science elective (BI/CH/ESC/PH)*	3	_____	_____	_____
TOTAL GENERAL TRACK CREDITS	28			

***Please choose from the following electives to fulfill the General Track requirements:**

Keep in mind at least 21 credits must be upper levels (300-400)

- ✓ **BI electives:** BI 235,245,246,285,310,330,355,389,390,402,429,430,442,485
- ✓ **CH electives:** CH 285,311,351,352,410,485
- ✓ **ESC electives:** ESC 121,205,250,271,285,331,380,384,385,401,410,485
- ✓ **PH electives:** PH 203,310
- ✓ **MA electives:** MA 202 (if used for Gen Ed requirements, course cannot be used in this section)

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<u>Pre-professional Biology:</u>	<u>CR</u>	<u>YEAR</u>	<u>GRADE</u>	<u>COMMENTS</u>
BI 235 Microbiology	4	_____	_____	_____
<i>Choose ONE of the following: <u>BI 330</u> or <u>BI 355</u></i>				
_____	4	_____	_____	_____
BI 429 Cell Biology	3	_____	_____	_____
BI 430 Genetics	3	_____	_____	_____
BI 442 Evolution	3	_____	_____	_____
CH 351 Organic Chemistry I	4	_____	_____	_____
CH 352 Organic Chemistry II	4	_____	_____	_____
<i>Choose ONE of the following: <u>CH 410</u> or <u>PH 203</u></i>				
_____	4	_____	_____	_____
TOTAL BIOLOGY EMPHASIS CREDITS	32			

<u>Range Ecology & Management:</u>	<u>CR</u>	<u>YEAR</u>	<u>GRADE</u>	<u>COMMENTS</u>
BI 245 Botany	4	_____	_____	_____
ESC 205 Range Management	3	_____	_____	_____
ESC 250 Natural Resource Mgmt	3	_____	_____	_____
ESC 384 Watershed Management	3	_____	_____	_____
ESC 385 Soils	4	_____	_____	_____
<i>Choose ONE of the following: <u>ESC 331</u> or <u>401</u></i>				
_____	3	_____	_____	_____
ESC 410 Range Improvements & Grazing Mgmt	3	_____	_____	_____
<i>Choose ONE of the following: <u>CH 311</u> or <u>PH 310</u></i>				
_____	4	_____	_____	_____
<i>Choose ONE of the following: <u>BI 330, 389, 390, 402, 442, or 485</u></i>				
_____	3/4	_____	_____	_____
TOTAL RANGE STUDIES EMPHASIS CREDITS	30			
Total Environmental Science Degree Credits	121			

Student Signature: _____ Date: _____

Advisor Signature: _____ Date: _____

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An example course outline:

	Fall	Spring	Summer
Freshman	BI 151 Biology I EN 101 Freshman English I ESC 101 Environmental Monitoring _____Computer Course PL 100 Critical & Creative Thinking	BI 152 Biology II EN 102 Freshman English II ESC 209 Environmental Science _____Math Course	SP 100 Speech
Sophomore	CH 151 Chemistry I LL 101 Lakota Language I GE 100 Physical Geography Fundamentals MA 201 Calculus & Analytic Geometry I	CH 152 Chemistry II LS 253 Lakota History & Culture ESC 299 Research & Writing in Science ESC 241 GIS & Remote Sensing _____Social Science Course	
Junior	MA 270 Statistics ESC 380 Climate & Weather PH 202 Physics I _____Emphasis Area Course	BA 380 Ethics _____Emphasis Area Course _____Emphasis Area Course _____Emphasis Area Course	ESC 498 Undergraduate Research Experience I
Senior	ESC 495 Senior Research Seminar I BI 310 Ecology _____Emphasis Area Course _____Emphasis Area Course _____Emphasis Area Course	ESC 496 Senior Research Seminar II ESC 415 Environmental Law _____Emphasis Area Course _____Emphasis Area Course	ESC 499 Undergraduate Research Experience II