

**DEPARTMENT OF MATH, SCIENCE, & TECHNOLOGY
ASSOCIATE OF ARTS IN PRE-ENGINEERING**

	Where Taken	Date	Grade
1. Core Requirements: (18 Credits)			
Engl 103 Freshman English I	3	_____	_____
Engl 113 Freshman English II	3	_____	_____
SpCm 103 Speech Communication	3	_____	_____
Math 163 Trigonometry	3	_____	_____
Social Science Elective	3	_____	_____
Humanities Elective	3	_____	_____
3. Lakota Studies Requirements: (9 Credits)			
Lak 103 Lakota Language I	3	_____	_____
LSoc 103 Lakota Culture or LHist 203, LHist 213	3	_____	_____
Lakota Elective	3	_____	_____
4. Math and Science Requirements: (43 Credits)			
Math 194 Calculus I	4	_____	_____
Math 214 Calculus II	4	_____	_____
Math 224 Calculus III	4	_____	_____
Phys 214 Physics I	4	_____	_____
Phys 223 Physics II	3	_____	_____
Phys 221 Physics II Lab	1	_____	_____
Chem 233 General Chemistry I	3	_____	_____
Chem 231 General Chemistry Lab I	1	_____	_____
Chem 243 General Chemistry II	3	_____	_____
Chem 241 General Chemistry Lab II	1	_____	_____
Engr 101 Introduction to Engineering I	1	_____	_____
Engr 111 Introduction to Engineering II	1	_____	_____
Engr 133 Eng. Graphics & Computer Aided Drawing	3	_____	_____
Engr 243 Statics	3	_____	_____
Engr 253 Mechanics of Materials	3	_____	_____
Engr 213 Elementary Surveying	3	_____	_____
Engr 211 Elementary Surveying Laboratory	1	_____	_____
4a. Civil Engineering Requirements (9 credits)			
Engr 202 Construction Materials	3	_____	_____
Engr 201 Construction Materials Laboratory	3	_____	_____
Engr 223 Principals of Environmental Science	3	_____	_____
Total Credits – 79			
4b. Geological Engineering Requirements (10 credits)			
Engr 143 Geology for Engineers	3	_____	_____
Engr 141 Geology for Engineers Laboratory	1	_____	_____
GIS 213 Introduction to GIS	3	_____	_____
GIS 313 Applications of GIS	3	_____	_____
Total Credits – 80			

2014-2015 Catalog

*Students must either pass an entrance exam for these courses or pass 100-level preparatory courses with a “C” or better. See catalog descriptions. Entrance exams are available from Math and Science Department members during the week of registration.