

## SD Mines & United Tribes Technical College Pre-Engineering Advising Guide

General Education Requirements (43 credits)		
UTTC Course Number- Title-Credits	SD Mines Course Number - Title - Credits	
<b>Communications: (9 credits)</b>		
COM 110 Fund of Public Speaking - 3	SPCM 101 Fundamentals of Speech - 3	*ENG 120 Composition II will transfer to SD Mines as ENGL 201 Composition II. However, students are advised to take ENG 105 Technical Communications instead for better preparation in STEM fields.
ENG 110 Composition I - 3	ENGL 101 Composition I - 3	
ENG 105 Technical Communications - 3	ENGL 279 Technical Communications I - 3	
<b>Arts &amp; Humanities: (3 credits)</b>		
HUM 101 Introduction to Humanities - 3	HUM 100 Introduction to Humanities - 3	*NAS 212 Tribal Arts II will not fill the Goal 4 "Humanities" General Education Requirement at SD Mines.
HUM 106 Readings in Native Am. Lit - 3	ENGL 214 American Indian Literature - 3	
HUM 113 Drawing I - 3	ART 111 Drawing I - 3	
NAS 112 Tribal Arts I - 3	AIS 251 American Indian Art History - 3	
NAS 190 Lakota History & Culture - 3	AIS 257 Early American Indian History - 3	
<b>Social Sciences: (3 credits)</b>		
PSY 111 Introduction to Psychology - 3	PSYC 101 General Psychology - 3	*PSY 251 Developmental Psychology and PSY 270 Abnormal Psychology will not fill the Goal 3 "Social Studies" General Education Requirement at SD Mines.
SOC 110 Introduction to Sociology - 3	SOC 100 Introduction to Sociology - 3	
SOC 275 Native American Studies - 3	NATV 110 The Native Studies Discipline - 3	
<b>Math, Science &amp; Technology: (26 credits)</b>		
CHM 121 General Chemistry I/LAB - 4	CHEM 112 General Chemistry I/Lab - 4	
CHM 122 General Chemistry II/LAB - 4	CHEM 114 General Chemistry II/Lab - 4	
MTH 105 Trigonometry - 3	MATH 120 Trigonometry - 3	
MTH 165 Calculus I - 4	MATH 123 Calculus I - 4	
MTH 166 Calculus II - 4	MATH 125 Calculus II - 4	
MTH 265 Calculus III - 4	MATH 225 Calculus III - 4	
<b>Required Program Core Courses (18 credits)</b>		
ENR 115 Introduction to Engineering e/CAD - 4	ME 110/L Intro to Mechanical Engineering and Lab - 3; 1 CEE 130 Intro to Civil and Environmental Engineering - 1	*ENR 115 may be used to fill introductory requirements for other majors at the SD Mines faculty advisor's discretion. This is determined upon acceptance to SD Mines.
ENR 201 Statics - 3	EM 214 Statics	
ENR 202 Dynamics - 3	ME 221 Dynamics of Mechanisms	*CSC 101 Introduction to Computers will not fill any computer science requirements at SD Mines.
PHY 251 University Physics I - 4	PHYS 211 University Physics I - 4	
PHY 252 University Physics II - 4	PHYS 213 University Physics II - 4	

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