

SNOW SCIENCE OPTION

CURRICULUM CHECKING SHEET

2006-2008 Catalog

COURSES REQUIRED IN DEPARTMENT**FRESHMAN YEAR**

ESCI 111IN	Physical Geology
ESCI 112N	Physical Geography
GEOG 105	World Regional Geography
MATH 181M	Calculus & Anl Geom I
MATH 182M	Calculus & Anl Geom II
University Core	Snow Geography concentration consider Biology 101N

CREDITS	SEMESTER TAKEN	GRADE
4		
4		
3		
4		
4		
6		

TOTAL**SOPHOMORE YEAR**

CHEM 131IN	General Chemistry I
CHEM 132N	General Chemistry II
PHYS 205N	College Physics I
PHYS 206N	College Physics II
GEOG 303	Weather and Climate
GEOG 211 and BIOL 101	OR MATH 224 and MATH 225

4		
4		
4		
4		
3		
11		

University Core

TOTAL**JUNIOR YEAR**

ESCI 301	Earth Sciences Writing
ESCI 307	Prin of Geomorphology
STAT 332	Statistics for Scientists & Engineers
STAT 446	Sampling
GEOG 302 and GEOG 305	OR EM 253 and CE 312

2		
4		
3		
3		
17		

University Core

TOTAL**SENIOR YEAR**

ESCI 450	Snow Dynamics and Accumulation
GEOG 430	Mountain Geography
GEOL 445	Glacial Geology
STAT 410**	OR STAT 412
GEOG 302 and GEOG 305	OR EM 253 and CE 312

3		
4		
3		
3		

** Students may find that Math 221 Matrix Theory will help with STAT 410

TOTAL

Select one of the following two emphases:

SNOW GEOGRAPHY

BIOL 101	Biology of Organisms
GEOG 201D	Human Geography
GEOG 211	GIS & Cartography
GEOG 302	Biogeography
GEOG 305	GIS & Spatial Analysis
GEOG 411	Advanced GIS & Spatial Analysis
GEOG 315 or GEOG 330 AND ESCI 432	

CREDITS	SEMESTER TAKEN	GRADE
3		
3		
3		
3		
3		
3		
OR		

OR

LRES 444	
	TOTAL

SNOW MECHANICS**

MATH 224	Calculus of Several Variables
MATH 225	Intro to Differential Equations
EM 251	Statics and Particle Dynamics
EM 253	Mechanics of Materials
CE 312	Structures I
CE 320	Geotechnical Engineering
CE 331	Engineering Hydrology
CE 332	Engineering Hydraulics
CE 415	Advanced Mechanics of Solids

CREDITS	SEMESTER TAKEN	GRADE
4		
4		
3		
3		
3		
3		
2		
2		
3		
1		

Additional 1 credit of upper division credits needed to graduate

NOTE: Students interested in avalanche dynamics should consider the two courses below which are not required. Courses may also make completion of second degree in engineering more feasible.

EM 252	Rigid Body Dynamics
EM 335	Fluid Mechanics

TOTAL

120 CREDITS ARE REQUIRED TO GRADUATE - 42 of these credits must be 300 level and above