

ISU 2007-09 BS DEGREE in METEOROLOGY

Path 1 for students prepared to start in calculus

Semester 1	FRESHMAN YEAR		Semester 2
CHEM 163 or 177 General Chemistry	4	ENGL 150 Critical Thinking & Communication	3
CHEM 163L or 177L Lab in General Chemistry	1	CHEM 164 or 178 General Chemistry	3
Humanities Choice	3	LIB 160 Library Instruction	.5
MATH 165 Calculus I	4	MATH 166 Calculus II	4
MTEOR 111 Synoptic Applications	1	PHYS 221 Introduction to Classical Physics I	5
MTEOR 206 Introduction to Meteorology	3		15.5
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Semester 3	SOPHOMORE YEAR		Semester 4
MATH 265 Elementary Multivariate Calculus	4	MATH 266 Elementary Differential Equations	3
MTEOR 201 Introductory Seminar	R	MTEOR 301 General Meteorology	4
MTEOR 227 Computational Meteorology	3	STAT 105 Intro to Statistics for Engineers	3
PHYS 222 Introduction to Classical Physics II	5	ENGL 250 Written, Oral, Visual, & Elect Comp	3
SP CM 212 Fundamentals of Public Speaking	3	Social Science Choice	3
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Path 2 for students needing preparatory mathematics

Semester 1	FRESHMAN YEAR		Semester 2
ENGL 150 Critical Thinking & Communication	3	CHEM 164 General Chemistry	3
CHEM 163 General Chemistry	4	MATH 165 Calculus I	4
CHEM 163L Lab in General Chemistry	1	MTEOR 206 Introduction to Meteorology	3
LIB 160 Library Instruction	.5	SP CM 212 Fundamentals of Public Speaking	3
MATH 140 College Algebra	3	Humanities Choice	3
MATH 142 Trig & Analytical Geometry	3		16
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Semester 3	SOPHOMORE YEAR		Semester 4
MATH 166 Calculus II	4	MATH 265 Elementary Multivariate Calculus	4
MTEOR 111 Synoptic Applications	1	MTEOR 301 General Meteorology	4
MTEOR 201 Introductory Seminar	R	PHYS 222 Intro to Classical Physics II	5
MTEOR 227 Computational Meteorology	3	STAT 105 Intro to Statistics for Engineers	3
PHYS 221 Intro to Classical Physics I	5		16
ENGL 250 Written, Oral, Visual, & Elect Comp	3		
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Semester 5	JUNIOR YEAR		Semester 6
MTEOR 311 Intro to Synoptic Meteorology	2	MTEOR 342 Atmospheric Physics II	3
MTEOR 341 Atmospheric Physics I	3	MTEOR 443 Dynamic Meteorology I	3
Foreign Language/Elective	4	Foreign Language/Elective	4
Humanities Choice	3	Humanities Choice	3
Social Science Choice (Path 2)	3	Social Science Choice	3
	<u>Path 1</u>		<u>16</u>
	12		
	<u>Path 2</u>		
	15		
Semester 7	SENIOR YEAR		Semester 8
MTEOR 411 Synoptic Meteorology	3	MTEOR 417 Mesoscale Forecasting Laboratory	3
MTEOR 454 Dynamic Meteorology II	3	MTEOR 432 Instrumentation and Measurements	3
MTEOR 499 Senior Research	2	Humanities Choice	3
ENGL 314 or 302 Tech/Business Communication	3	Meteorology Elective ¹	3
Meteorology Elective ¹	3	Social Science Choice	3
Elective	3		15
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Students in all ISU majors must complete a three-credit course in U.S. diversity and a three-credit course in international perspectives. Check www.iastate.edu/~registrar/courses/div-list.html for a list of approved courses. Discuss with your adviser how the two courses that you select can be applied to your graduation plan.

LAS majors require a minimum of 120 credits, **including a minimum of 45 credits at the 300/400 level**. Three of the required 45 300+ credits must be earned in a general education group outside the group of the major. You must also complete the LAS foreign language requirement and any high school unmet admission requirements.

¹Student must select at least 6 credits from a list of optional courses.

REQUIRED ELECTIVE COURSES

(An additional 6 credits must be chosen from the following list; other geology or hydrology courses may be substituted with adviser approval)

C E 372	Engineering Hydrology & Hydraulics	4	F,S
Geol 415	Paleoclimatology	3	Alt S
Mteor 404	Global Change	3	S
Mteor 406	Climates of Continents	3	F
Mteor 407	Mesoscale Meteorology	3	S
Mteor 452x	Physics of Climate	3	F
Mteor 471x	History of Modern Meteorology	1	Alt S
Mteor 490	Independent Study	V	F,S,SS