

Meteorology (BS) (17METBS)

Critical Path Courses -Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.

Freshman Year

Fall Semester	Credit	Spring Semester	Credit
CH 101 Chemistry- A Molecular Science ¹	3 CP	CH 201 Chemistry – A Quant Sci ^{3,6}	3
CH 102 General Chem Lab ³	1	CH 202 General Quant Lab ^{3,6}	1
MA 141 Calculus I ^{1,A}	4 CP	ENG 101 Academic Writing & Research ^{1,H}	4 CP
MEA 100 Earth System Science ^{2,G,J}	4 CP	MA 241 Calculus II ^{1,A}	4 CP
HES_*** Health & Exercise Studies Course ^E	1	MEA 215 Intro to Atmospheric Sciences ²	4 CP
COS 100 The Science of Change ^{5,6}	2		
	15		16

Sophomore Year

Fall Semester	Credit	Spring Semester	Credit
MA 242 Calculus III ³	4	MA 341 Appl Differential Equations I ³	3
MEA 321 Fund. of Air Quality & Climate Chg ²	3	MEA 312 Atmospheric Thermodynamics ²	4
PY 205 Physics for Engr & Sci I ^{1,B}	3 CP	MEA 315 Math. Methods in Atmos. Sci. ²	4
PY 206 Physics for Engineers & Scientists I Lab ^{3,B}	1	PY 208 Physics Engr & Sci II ^{3,B}	3
Computing Option ^{3,4}	3	PY 209 Physics for Engineers & Scientists Lab II ³	1
	14		15

Junior Year

Fall Semester	Credit	Spring Semester	Credit
Approved Elective ^{2,7}	3	Advanced Writing Elective ⁹	3
MEA 421 Atmospheric Dynamics I ¹	3	Approved Elective ^{2,7}	3
Geophysical Science Elective ^{2,3,8}	3	MEA 412 Atmospheric Physics ²	3
GEP Social Sciences Reqt. ^D	3	MEA 422 Atmospheric Dynamics II ¹	3
ST 370 Prob & Stat for Engineers ³	3	MEA 495 Junior Seminar in MEAS	1
		GEP Addt. Breadth Reqt. ^F	3
	15		16

Senior Year

Fall Semester	Credit	Spring Semester	Credit
Approved Elective ^{2,7}	3	Approved Elective ^{2,7}	3
Restricted Elective ^{2,10}	3	Restricted Elective ^{2,10}	3
GEP Humanities Requirement ^C	3	Restricted Elective ^{2,10}	3
HES_*** Health & Exercise Studies Course ^E	1	GEP Humanities Reqt. ^C	3
MEA 443 Synoptic Weather Analysis & Forecast ²	4	GEP Social Sciences Reqt. ^D	3
	14		15

Minimum Credit Hours Required for Graduation^{*,I,J,K}:

120

Major/Program Footnotes

1. Grade of C- or higher required in CH 101; ENG 101; MA 141, 241; MEA 421, 422; and PY 205.
2. No more than one D will be accepted in MEA or Approved Elective courses.
3. No more than one additional D will be accepted in other math or science courses.
4. Computing Option: MEA 217, MA 116, PY 251 or CSC 113.
5. COS 100 is for new freshmen only. Transfer students will need to select a course from the GEP Interdisciplinary Perspectives course list.
6. Advanced transfer students are permitted to substitute mathematics, science, or engineering credits for CH 201, 202.
7. Approved Electives constitute a minor field of emphasis consisting of at least 12 credit hours in a single discipline or related disciplines. These include, but are not limited to: biometeorology, chemistry, computer science, environmental quality, geology-geophysics, hydrology, mathematics, physics, physical oceanography, statistics, several areas of engineering, agriculture, forestry, science education, weather communication.
8. Geophysical Science Elective is selected from among MEA 101, MEA 200, PY 123, PY 124, SSC 200.
9. Advanced Writing Elective must be selected from ENG 331, ENG 332, and ENG 333. The Advanced Writing Elective may not be used to satisfy the GEP Humanities requirement. It does satisfy the Communication in the Major Co-Requisite.
10. Any meteorology course at the 400 level or above. Course choice affects career options. See advisor for appropriate course selection.

* General Education Program (GEP) requirements and GEP Footnotes

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at <http://oucc.dasa.ncsu.edu/general-education-program/>.

A. Mathematical Sciences (6 credit hours; one course with MA or ST prefix) *Choose from the University approved GEP Mathematical Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: MA 141 & MA 241*

B. Natural Sciences (7 credit hours; include one laboratory course or course with a lab) *Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: PY 205, PY 206 & PY 208*

C. Humanities (6 credit hours selected from two different disciplines/course prefixes) *Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: none*

D. Social Sciences (6 credit hours selected from two different disciplines/course prefixes) *Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: none*

E. Health & Exercise Studies (2 credit hours – at least one 100-level Fitness and Wellness Course) *Choose from the University approved GEP Health & Exercise Studies course list.*

F. Additional Breadth (3 credit hours to be selected from the following checked University approved GEP course lists) Humanities/Social Sciences/Visual and Performing Arts

G. Interdisciplinary Perspectives (5-6 credit hours) *Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: COS 100 & MEA 100*

H. Introduction to Writing (4 credit hours satisfied by completing ENG 101 with a C- or better)

The following **Co-Requisites** must be satisfied to complete the General Education Program requirements

I. U.S. Diversity (USD) *Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement: none*

J. Global Knowledge (GK) *Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement: MEA 100*

K. Foreign Language proficiency Proficiency at the FL_102 level is required for graduation.