Current Curriculum and Recommended Schedule: B.S. degree in Meteorology

First Year

MATH 1241 Calculus I	3	
CHEM 1251 Principles of Chemistry	3	
CHEM 1251L Principles of Chemistry Lab	1	
ENGL 1101 English Composition	3	
ESCI 1101 Physical Geography	3	
ESCI 1101L Physical Geography Lab	1	
Semester Total	14	

MATH 1242 Calculus II	3	
PHYS 2101 Physics for Science I	3	
PHYS 2101L Physics for Science I - Lab	1	
ENGL 1102 Academic Writing	3	
GEOL 1200 Physical Geology	3	
GEOL 1200L Physical Geology Lab	1	
Semester Total	14	

Second Year

METR 3140 Intro to Meteor and Clim	3	
MATH 2171 Differential Equations	3	
ETME 3133 Fluid Mechanics	3	
PHYS 2102 Physics for Science II	3	
PHYS 2102L Physics for Science II - Lab	1	
LBST 11xx Arts and Society	3	
Semester Total	16	

METR 3210 Atmospheric Thermodynamics	3	
STAT 2122 Intro to Prob and Stats	3	
LBST 2101 Western Culture and History	3	
Social Science Elective	3	
General Elective	3	
Semester Total	15	

Third Year

METR 3220 Physical Meteorology	3	
METR 3245 Synoptic Meteorology	4	
ESCI 3105 Oceanography	3	
LBST 2102 Global Connections	3	
FORL 1201 (or proficiency)	4	
Semester Total	17	

METR 3250 Dynamic Meteorology	4	
LBST 22xx Liberal Studies Elective	3	
Writing (W) Comm Elective	3	
FORL 1202 (or proficiency)	4	
General Elective	2	
Semester Total	16	

Fourth Year

METR 4245 Advanced Synoptic Meteo	3	
METR 4250 Advanced Dynamic Meteo	3	
Major Elective	4	
Writing (W) Comm Elective (METR 4150)	3	
General Elective	2	
Semester Total	15	

ESCI 4600 Earth Science Seminar (O)	1	
Major Elective	3	
General Elective	3	
General Elective	3	
General Elective	3	
Semester Total	13	

METR BS Requirement	
General Education Requirement	Red

Required Degree Total 120

Major Electives - Fall Offerings	
METR 3340 Weather Communications	3
METR 4150 Applied Climatology	3
METR 4320 Tropical Meteorology	3
ESCI 4140 Hydrologic Processes	4
ESCI 4170 Fundamental Remote Sensing	4

Major Electives - Spring Offerings	
METR 3240 Boundary Layer Meteorology	4
METR 3330 Forecasting	3
METR 4350 Mesoscale Meteorology	3
ESCI 4180 Advanced Remote Sensing	4

**** See the next page for suggestions on useful electives for (1) a career in the National Weather Service or a private company, (2) a broadcast meteorology career, (3) an environmental monitoring career, or (4) preparation for graduate studies or research in meteorology**

Recommendations for Elective Courses

1. NATIONAL WEATHER SERVICE and PRIVATE COMPANIES

- **a.** ESCI 4140 Hydrologic Processes
- **b.** ESCI 4170 Fundamentals of Remote Sensing
- **c.** METR 3330 Weather Forecasting
- **d.** METR 4150 Applied Climatology
- **e.** METR 4320 Tropical Meteorology
- **f.** METR 4350 Mesoscale Meteorology

Using general electives to help complete **all** of the suggested courses is recommended. A formal internship with, or volunteering for, a NWS office is highly recommended to increase employment chances.

2. BROADCAST METEOROLOGY

- **a.** METR 3330 Weather Forecasting
- **b.** METR 3340 Weather Communications
- **c.** Additional courses in communication, journalism, writing and speech
- **d.** Additional courses in publishing or broadcast media

Using general electives for communications courses may increase your chances for employment. An internship with a television or radio station is highly recommended to increase employment chances.

3. ENVIRONMENTAL MONITORING

- **a.** ESCI 4140 Hydrologic Processes
- **b.** ESCI 4170 Fundamentals of Remote Sensing
- **c.** METR 3240 Boundary Layer Meteorology
- **d.** METR 4150 Applied Climatology
- **e.** GEOG 4120 Introduction to Geographic Information Systems
- **f.** Additional courses in chemistry
- **g.** Additional courses in the environmental sciences

Using general electives to help complete **all** of the suggested courses is recommended. A formal internship with, or volunteering for, an environmental firm is highly recommended to increase employment chances.

4. GRADUATE STUDIES or RESEARCH

- **a.** ESCI 4140 Hydrologic Processes
- **b.** ESCI 4170 Fundamentals of Remote Sensing
- **c.** METR 3240 Boundary Layer Meteorology
- **d.** METR 3330 Forecasting
- **e.** METR 4150 Applied Climatology
- **f.** METR 4320 Tropical Meteorology
- **g.** METR 4350 Mesoscale Meteorology
- **h.** GEOG 4120 Introduction to Geographic Information Systems
- **i.** Additional coursework in mathematics, statistics, or computer science

Using general electives to complete as many of the suggested courses as possible is recommended. Participation in a Research Experience for Undergraduates (REU) or any other research-related activity is highly advantageous for acceptance into meteorology or atmospheric science graduate programs.

ADVISING WORKSHEET UNC CHARLOTTE
GENERAL EDUCATION PROGRAM

I. Development of Fundamental Skills of Inquiry		**Credit Hours**	**Courses taken**
Basic writing skills	Either *ENGL* 1101 or *ENGL* 1103	**3**	
Basic writing skills	*ENGL* 1102 (students who take *ENGL* 1103 do not have to take *ENGL* 1102)	**0-3**	
Mathematics and logical reasoning	*MATH* 1xxx	**3**	
Mathematics and logical reasoning	One of the following: *MATH* 1xxx, *STAT* 1xxx, or *PHIL* 2105	**3**	

II. Inquiry in the Sciences		**Credit HourS**	**Courses taken**
Life sciences and/or physical sciences	Two of the following, and one of them must be with a lab: *ANTH* 2141; *BIOL* 1110, 1115, 1273, 1274; *CHEM* 1111, 1112, 1203, 1204, 1251, 1252; *ESCI* 1101; *GEOL* 1200, 1210; *PHYS* 1101, 1102, 1130, 2101,2102; *PSYC* 1101	**4**	(with lab)
		3-4	(with or without lab)
Social science	One of the following: *ANTH* 1101; *ECON* 1101, *ECON* 2101; *GEOG* 1105; *POLS* 1110; SOCY 1101	**3**	

III. Themes of Liberal Education for Private and Public Life		**Credit Hours**	**Courses taken**
Arts and society	One of the following: *LBST* 1101, 1102, 1103, 1104, 1105	**3**	
Western culture	*LBST* 2101	**3**	
Global understanding	*LBST* 2102	**3**	
Ethical and cultural critique	One of the following: *LBST* 2211, 2212, 2213, 2214, 2215	**3**	

IV. Communication Skills		**Credit Hours**	**Courses taken**
Writing in the discipline course in the major	One three semester hour course or its equivalent totaling three semester hours in the major with the W designation	**3**	
Writing in the discipline course	A second course with the W designation (Can be in the major or outside the	**3**	
Oral communication	A course with the O designation (If a course is designated for both O and W, the one course can be applied to both.)	**1-3**	

The following applies only to students majoring in a program in the College of Arts and Sciences, College of Architecture, or College of Health and Human Services.		**Credit Hours**	**Courses taken, if applicable**
Foreign language	A 1202-level course in a foreign language	**4-8**	