

*Welcome to the Geography and Geology Department at Western Kentucky University  
Meteorology -- The Dynamic Discipline (#578)*

Semester-by-Semester Checklist for the Professional Meteorology Major - Effective Fall 2016

| Course                                   | Credits   | Semester | Course                                 | Credit    | Semester |
|--|-----------|----------|--|-----------|----------|
| <b>FRESHMAN YEAR</b>                     |           |          | <b>FRESHMAN YEAR</b>                   |           |          |
| METR 121 Science Lab Intro Meteorology   | 3         |          | METR 122 Aviation                      | 3         |          |
| ENG 100 Writing (Composition)            | 3         |          | MATH 137 Calculus II                   | 4         |          |
| MATH 136 Calculus (Colonnade QR)         | 4         |          | HIST 101 or 102 (Colonnade History)    | 3         |          |
| GEOG 110 (Exp S&B) World Regional        | 3         |          | COMM 145 Colonnade F-OC                | 3         |          |
| GEOG 175 Freshman                        | 2         |          | ENG 200 Literature (Colonnade AH)      | 3         |          |
| <b>HOURS</b>                             | <b>15</b> |          |  | <b>16</b> |          |
| <b>SOPHOMORE YEAR</b>                    |           |          | <b>SOPHOMORE YEAR</b>                  |           |          |
| MATH 237 Multi Calc                      | 4         |          | MATH 331 Diff Equation                 | 3         |          |
| CS 170 Programming                       | 3         |          | METR 324 Analysis                      | 3         |          |
| GISC 316 Intro GIS                       | 4         |          | Colonnade Language                     | 3         |          |
| Colonnade Arts Human                     | 3         |          | Connections S&B                        | 3         |          |
|  |           |          | University Elective                    | 3         |          |
| <b>HOURS</b>                             | <b>14</b> |          |  | <b>15</b> |          |
| <b>JUNIOR YEAR</b>                       |           |          | <b>JUNIOR YEAR</b>                     |           |          |
| METR 431 Dynamic                         | 3         |          | METR 433 Dynamic II                    | 3         |          |
| GEOG 300 Writing (Colonnade Writing)     | 3         |          | GEOG 380 or GISC 216 (Connections L-G) | 3         |          |
| METR Elective                            | 3         |          | METR Elective                          | 3         |          |
| PHYS 255/256                             | 5         |          | PHYS 265/266                           | 5         |          |
| Independent Research                     | 1         |          | Independent Research                   | 1         |          |
| <b>HOURS</b>                             | <b>15</b> |          | <b>HOURS</b>                           | <b>15</b> |          |
| <b>SENIOR YEAR</b>                       |           |          | <b>SENIOR YEAR</b>                     |           |          |
| METR 432 Synoptic                        | 3         |          | METR 437 Mesoscale                     | 3         |          |
| GEOG 391 Statistics                      | 4         |          | University Electives                   | 6         |          |
| Elective Meteorology                     | 3         |          | Meteorology Elective                   | 3         |          |
| METR 322 or GEOG 227 (Colonnade Systems) | 3         |          | Independent Research                   | 2         |          |
| GEOG 499 Prof Develop                    | 1         |          |  |           |          |
| Independent Research                     | 2         |          |  |           |          |
| <b>HOURS</b>                             | <b>16</b> |          | <b>HOURS</b>                           | <b>14</b> |          |

- 120 Hours total are required in the program, with 42 hours at the 300/400 level.
- Summer courses, including Study Abroad, Field Camps, and other independent research opportunities, can reduce the number of hours required in the regular semesters.
- Required and elective courses can be moved from semester to semester to take advantage of courses when offered.
- The WKU Colonnade Program requires a minimum of 39 hours, with several required courses in the Meteorology program that can be double-counted.
- Colonnade Connections courses are restricted to Juniors/Seniors, unless 21 credit hours of Colonnade Explorations and Foundations courses have already been completed sooner.