

2024 - 2025 Certificate Map

Atmospheric Sciences

School/College: [The College of Liberal Arts and Sciences](#)

Location: [Tempe](#)

Program Requirements

The certificate requires 19 credit hours with a "C" (2.00 on a 4.00 scale) or higher. At least 12 of the 19 credit hours must be upper-division coursework.

Required Courses -- 16 credit hours

[GPH 213: Climate and Weather \(SCIT OR SG\)](#) (3)

[GPH 215: Climate and Weather Laboratory \(SCIT OR SG\)](#) (1)

[GPH 412: Physical Meteorology](#) (3)

[GPH 413: Meteorological Instruments and Measurement](#) (3)

[GPH 414: Climate Change \(SUST OR G\)](#) (3)

[MAT 275: Modern Differential Equations \(MATH OR MA\)](#) (3)

Upper-Division Elective (choose one) -- 3 credit hours

[GIS 311: Geographic Information Science III \(QTRS OR CS\)](#) (4)

[GIS 341: Cartography and Georepresentation \(QTRS OR CS\)](#) (3)

[GIS 351: Air Photo Interpretation](#) (3)

[GPH 314: Global Change \(SUST OR HU & G\)](#) (3)

Prerequisite courses may be needed in order to complete the requirements of this certificate.