

# 2024 - 2025 Certificate Map

## Water Resources

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

Location: [Tempe](#)

### Program Requirements

The certificate requires 16 credit hours. At least 12 credit hours must be completed in upper-division coursework and at least nine credit hours must be completed at ASU. At least six upper-division hours in the certificate must be completed in courses offered by The College of Liberal Arts and Sciences. A grade of "C" (2.00 on a 4.00 scale) or higher is required for each course used to fulfill a certificate requirement.

#### **Required Courses -- 10 credit hours**

[GLG 108 / SOS 182: Water Planet \(SCIT OR SQ\)](#) (4)

[GLG 327 / SOS 374: Earth's Critical Zone](#) (3)

[GLG 470: Hydrogeology](#) (3)

#### **Electives -- 6 credit hours**

[CEE 441: Water Resources Engineering](#) (3)

[GLG 325 / BIO 325 / CHM 385: Oceanography](#) (3)

[GLG 362: Geomorphology](#) (3)

[GLG 471: Hydrology](#) (3)

[GLG 481: Geochemistry](#) (3)

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