

ARIZONA WESTERN COLLEGE
SYLLABUS

PIT 130 AMAZON WEB SERVICES ACADEMY CLOUD FOUNDATIONS

Credit Hours: 2 Lec 1 Lab 2

PREREQUISITE: None

COURSE DESCRIPTION

Fundamentals of building IT infrastructure on Amazon Web Services (AWS). Optimizing the use of AWS Cloud through the development of an understanding of AWS services, best practices, and how they fit into cloud-based solutions.

1. COURSE GOAL

- 1.1 Introduce students to cloud concepts, AWS core services, security, architecture, pricing, and support.
- 1.2 Prepare students for AWS Certified Cloud Practitioner Certification.

2. OUTCOMES

Upon satisfactory completion of this course, students will be able to:

- 2.1 Identify the benefits of cloud computer for business.
- 2.2 Describe the economic advantages of cloud computing.
- 2.3 Execute services using AWS Elastic Compute (EC2).
- 2.4 Select services using the AWS Management Console.
- 2.5 Choose among AWS storage options to meet performance requirements.
- 2.6 Create Virtual Private Clouds on AWS.
- 2.7 Investigate AWS database options.
- 2.8 Use Elastic Load Balancing (ELB) to scale services.
- 2.9 Manage Identity and Access Management (IAM) to limit access and maintain security.
- 2.10 Formulate decisions based on recommended architectural principles and best practices.
- 2.11 Evaluate AWS compute and networking options.
- 2.12 Examine alternative support options and features.

3. METHODS OF INSTRUCTION

- 3.1 Lecture
- 3.2 Multi-media Presentations
- 3.3 Group Discussions

4. LEARNING ACTIVITIES

- 4.1 Group Discussions
- 4.2 Digital Presentations
- 4.3 Interactive Virtual Practice

5. EVALUATION

- 5.1 Quizzes/Exams
- 5.2 Assignments
- 5.3 Participation

6. STUDENT RESPONSIBILITIES

- 6.1 Under AWC Policy, students are expected to attend every session of class in which they are enrolled.
- 6.2 Classroom Assignments: Students are responsible for work missed and for completing all work before the next class meeting. Students are responsible for participating in all oral drills and for taking all exams.
- 6.3 If a student is unable to attend the course or must drop the course for any reason, it will be the responsibility of the student to withdraw from the course. Students who are not attending as of the 45th day of the course may be withdrawn by the instructor. If the student does not withdraw from the course and fails to complete the requirements of the course, the student will receive a failing grade.
- 6.4 Americans with Disabilities Act Accommodations: Arizona Western College provides academic accommodations to students with disabilities through AccessABILITY Resource Services (ARS). ARS provides reasonable and appropriate accommodations to students who have documented disabilities. It is the responsibility of the student to make the ARS Coordinator aware of the need for accommodations in the classroom prior to the beginning of the semester. Students should follow up with their instructors once the semester begins. To make an appointment call the ARS front desk at (928) 344-7674 or ARS Coordinator at (928) 344-7629, in the College Community Center (3C) building, next to Advising.
- 6.5 Academic Integrity: Any student participating in acts of academic dishonesty including, but not limited to, copying the work of other students, using unauthorized “crib notes”, plagiarism, stealing tests, or forging an instructor’s signature—will be subject to the procedures and consequences outlined in AWC’s Student Code of Conduct.
- 6.6 Textbooks and materials: Students are required to bring notebook or looseleaf book, pens, pencils, dictionaries, and purchase textbook required for class.
- 6.7 Arizona Western College students are expected to attend every class session in which they are enrolled. To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College (AWC) has established an Attendance Verification process for “No Show” reporting during the first 10 days of each semester. Students who have enrolled but have never attended class may be issued a “No Show” (NS) grade by the professor or instructor and receive a final grade of “NS” on their official academic record. An NS grade may result in a student losing their federal financial aid.

For online classes, *student attendance in an online class is defined as the following* (FSA Handbook, 2012, 5-90):

- Submitting an academic assignment
- Taking an exam, an interactive tutorial or computer-assisted instruction
- Attending a study group that is assigned by the school
- Participating in an online discussion about academic matters
- Initiating contact with a faculty member to ask a question about the academic subject studied in the course.