

**CSE 546 — Cloud Computing**  
**Course Syllabus (Tentative)**

**Class schedule**

Tuesday/Thursday 1:30-2:45m, BYA 270

**Instructor**

Dr. Ming Zhao  
Office: BYENG 412  
Email: mingzhao@asu.edu  
Office hours: Tue/Thu 10:00 - 11:15pm or by appointment

**Prerequisites**

- Computer organization and data structures
- Java programming

**Description**

CSE 546 covers the following topics:

- Introduction
  - Background and history of cloud computing
  - Cloud computing models
- Virtualization
  - Background and history of virtualization
  - Virtual machines, virtual networks, virtual storage
- Infrastructure as a Service (IaaS)
  - IaaS system architecture
  - IaaS programming
- Platform as a Service (PaaS)
  - PaaS system architecture
  - PaaS programming
- Big data
  - Big data system architecture
  - Big data programming

**Grading (Tentative)**

Projects: Project 1 (20%), Project 2 (20%), Project 3 (20%)  
Midterm exam (30%)  
Class participation (10%)

## **Policies**

Late submission of assignment will not be graded. There will be *absolutely no* exception unless it is due to *verifiable* cases of illness and emergencies.

All assignments must be done *independently*. Academic dishonesty will be treated *very seriously* according to the Student Academic Misconduct Procedures.