Course Design & Activities

- Module 1: **Foundational Knowledge**
  - Weekly **lecture videos:** submit a **weekly "proof of learning"**
  - Regular **quizzes** (automatically graded) + **assignments** (peer + self grading + optional TA grading)
  - Late midterm **exam** (covering questions in quizzes and assignments)
- Module 2: **Experimental Skills**
  - Experimental Lab (experimentation with data sets & leaderboard-based competition)
- Module 3: **Frontier Topics**
  - Students read and present book chapters/papers for collaborative learning (online conference on Zoom with parallel sessions for question answering and discussion)
- Module 4: **Multi-Track Course Project (Open Exploration & Collaboration)**
  - **Research Track**: Discovery of **new knowledge** ➔ **submission/publication**
  - **System Track:** Develop **innovative systems** ➔ **open source software**