

**CS 181**

# **Object-oriented programming**

Course Roadmap

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# Proposed schedule

## Extract

- Python (Clean code and structural coding) - classes 1, 2
- Python (Classes and objects) - class 3
- Git basics - class 5
- Python (Web data extraction) - classes 6
- Web services and APIS - class 7
- File management - classes 8

## MidTerm Exam

Date: Day 9

# Proposed schedule

## Transform

- Access to relational database: SQL - class 10
- Pandas - classes 11–13

## Load (Data visualization)

- Matplotlib - class 14
- Seaborn - class 15

## Final exam

Date: Day 16

## **30% Continuous Course Assessments**

- 5% Active Participation & Code Reviews
- 25% Exploratory Data Analysis Project
  - 10% Extract (Upload on blackboard)
  - 5% Transform (Upload on blackboard)
  - 10% Load (Visualization) (Upload on blackboard)

## **30% Midterm Assessment (Extract part) (paper exam)**

## **40% Final Assessment (Transform + Load part) (paper exam)**