CS 341: Foundations of CS II

Marvin K. Nakayama
Computer Science Department
New Jersey Institute of Technology
Newark, NJ 07102

Overview of Syllabus

- Course webpage:

    https://web.njit.edu/~marvin/cs341

    - Syllabus: be sure to read it.
    - Announcements, lecture notes, assignments, old exams.
    - You must bring printouts of lecture notes and HW to each class.

- Instructor: Prof. Marvin Nakayama

    - Office: GITC 4312
    - Phone: 973-596-3398
    - E-mail: marvin@njit.edu (preferred over phone)
      include "CS 341" and section # in subject line
    - Office hours for **Spring 2024**:
        Monday, Thursday: 10:00am – 11:15am (Office or Zoom)
        or by appointment.

Course Materials

- Textbook: Michael Sipser, *Introduction to the Theory of Computation, Third Edition*. Course Technology, 2012. ISBN: 113318779X.

    - Earlier editions of Sipser are also ok.

- Canvas: learning management system (LMS)

    https://canvas.njit.edu

- Video lectures available through link in Canvas.

    - Hybrid and eLearning sections watch video lectures on their own.
    - Face-to-face sections also welcome to watch video lectures.

- Tutoring:

    https://computing.njit.edu/tutoring

Prerequisites and Instruction Modes

- Prerequisites (need grade of C or better in all **before** taking CS 341)

    1. CS 241 (Foundations of Computer Science I)
    2. CS 280 (Programming Language Concepts)

- We will do lots of proofs in this course.

    - Improve logical reasoning and problem-solving skills.

- Modes of instructional delivery

    - Face-to-face section
        - Meet synchronously twice a week according to registrar's schedule.
    - Hybrid section
        - Meet synchronously once a week according to registrar's schedule.
        - Watch lecture videos on your own asynchronously.
    - eLearning (online) section
        - Watch lecture videos on your own asynchronously.

Grading

- Course grade: **curve** using **roughly** the following weights:

Face-to-Face & Hybrid Sections		eLearning Section	
Projects (2)	40%	HW EL	5%
Midterm (1)	25%	Projects (2)	25%
Final Exam	35%	Midterm (1)	35%
		Final Exam	35%

- See current syllabus for exact grading scheme.
- Dates given in syllabus.
- Must request regrades within 1 week of when graded item is returned to the class or you are informed of your score, whichever is earlier.
  - I may regrade the entire document.

Projects

- 2 projects for face-to-face and hybrid sections, 2 projects for eLearning section.
- Expect to spend at least 5–10 hours on each.
- For **each** project, if you don't turn in minimally working program, then
  - you get a 0 on project **and**
  - your course grade will be lowered by one step, e.g., B → C+, or C → D.
- For **each** violation of University Policy on Academic Integrity
  - you get 0 on project **and**
  - your course grade will be lowered by **two steps**.
- Penalties for late projects (see assignment for penalty function).
  - Projects will not be accepted 72 hours after the due date/time.
- Assignments submitted through **Canvas**.

Course Policies

- If you cannot attend some class, you must contact me beforehand.
- For face-to-face and hybrid sections, midterms given during regular class meeting times.
- Synchronous and asynchronous online sections: all exams online.
- Bring a photo ID to all exams.
- No makeup exams.
  - Any absences must be cleared with dean of students.
  - Having too many exams the same week is **not** a legitimate reason.
- No extra-credit assignments.
- All unauthorized portable electronic devices (e.g., cellphones) must be turned off during class.
- University Policy on Academic Integrity
  - All violations will be reported to the dean of students.

Homework and Schedule

- Homework
  - All homework and solutions posted on course webpage.
  - Do not turn in (except for HW EL, for eLearning students only)
  - Be sure to complete them according to schedule in syllabus.
  - Exam problems often taken from homework.
  - Hybrid section will go over homeworks in weekly class meetings.
- Schedule: see syllabus
- **Syllabus goes into more detail. Be sure to read it.**
- Verification of presence
  - Face-to-face and hybrid sections: through Canvas
  - eLearning section: HW EL
- Please ask questions!