This statement is the original plan of the course. Plans can change through the course of the term, and changes will be sent out to the class email list. Check your ENGR email account daily.

**Course Description:** This laboratory course accompanies ECE 271, Digital Logic Design. This also illustrates topics covered in the lectures of ECE 271 using computer-aided design, verification tools, and prototyping hardware.

**Prerequisite(s):** None.

**Course Objectives:** At the completion of this course, students will be able to:

1. Design combinational and sequential system using integrated circuits available in the market (ABET Outcomes: A, C, K)

2. Implement and test the designed circuits using current laboratory equipment and testing techniques (ABET Outcomes: A, C, K)

3. Develop a small project, which usually consists of the design of a digital controller. The controller specification is provided in text form, and the students are exposed to all design phases: formal specification, design of gate networks, and implementation (ABET Outcomes: A, B, C, E, K)

4. Report the development of the experiments and laboratory results in written form (ABET Outcomes: G)

**Learning Materials:**

1. A lab kit for ECE 272 is required, and will be made available by the course fee associated with enrolling in ECE 272.

2. The lab manual is provided on the ECE 272 website.
Grading:

- **Pre-lab** — Each Pre-lab is worth 10 points, regardless of how many weeks are allocated to that section.

- **Lab Credit** — Each lab is worth $\frac{10\text{points}}{\text{week}}$. i.e. (Section 1 is worth 10 points but section 5 is worth 20 points).

- **Study Questions** — Each numbered item in the study questions is 2 points.

- **Challenges** — Challenges are extra credit projects at the end of each section, worth a maximum of 5 points for each section.

Course grades can be curved up based on class attendance, participation in lecture or office hours, or helping others with posts on the lab forum. Grades will not be curved down, everyone can earn an **A**.

**Accommodations:**
Accommodations for students with disabilities are determined and approved by Disability Access Services (DAS). If you, as a student, believe you are eligible for accommodations but have not obtained approval please contact DAS immediately at 541-737-4098 or at http://ds.oregonstate.edu. DAS notifies students and faculty members of approved academic accommodations and coordinates implementation of those accommodations. While not required, students and faculty members are encouraged to discuss details of the implementation of individual accommodations.

**Student Conduct:**
See http://studentlife.oregonstate.edu/studentconduct/offenses-0