ECE2060
Introduction to Digital Logic
Autumn 2016
http://u.osu.edu/khanece2000and2100/

Instructor:
Furrukh Khan, khan.1@osu.edu
Caldwell Lab. 377
http://u.osu.edu/khan.1/

In-class lectures, no recitation
Lecture times:
MWF, 4:10 p.m.-4:55 p.m., 113 Dreese Lab

Lecture GTA:
Sihao Ding, ding.189@buckeyemail.osu.edu
Office: Caldwell Lab 336

Lab supervisor/GTA:
Gregg Chapman, chapman.415@osu.edu
Office: Caldwell Lab. 237

Menna El-Shaer, el-shaer.1@buckeyemail.osu.edu
Office: Caldwell Lab 237 (Sophomore Lab.)

First Day of Labs (Caldwell Lab 237):
Please visit the lab web site for all lab related info:
http://u.osu.edu/ece2060labs/

Online recitations Instructors

Instructor: Kai Ren, ren.237@buckeyemail.osu.edu
Office: Caldwell Lab 338
Tuesday 8:00 a.m. – 8:55 a.m., McPherson Lab 2019
Thursday 8:00 a.m. – 8:55 a.m., Denny Hall 253

Instructor: Anas Abumunshar, abumunshar.1@buckeyemail.osu.edu
Office: Caldwell Lab 349
Monday 12:40 p.m. – 1:35 p.m., Knowlton Hall 0190
Thursday 8:00 a.m. – 8:55 a.m., Baker Systems 188

Office Hours (any student, lecture or recitation, can go to any office hour):

Kai Ren (Caldwell lab 338):
Wednesday 3:00 p.m. – 4:00 p.m.
Friday 3:00 p.m. – 4:00 p.m.

Anas Abumunshar (Caldwell Lab 349):
   Tuesday 1:00 p.m. – 2:00 p.m.
   Monday 9:30 a.m. – 10:30 a.m.

Sihao Ding (Caldwell Lab 336):
   Tuesday 4:30 p.m. – 5:30 p.m.
   Thursday 4:30 p.m. – 5:30 p.m.

Furrukh Khan (Caldwell Lab 377):
   By appointment (khan.1@osu.edu)
   If none of the GTAs can resolve your question/problem then please contact me

Textbook:

Lecture Topics and Coverage:

- Introduction
- Introduction to Number systems and Conversion
- Boolean Algebra
- Karnaugh Maps
- Multi-Level Gate Circuits
- Multiplexers, Decoders and PLDs
- Latches and Flip-Flops
- Registers and Counters
- Timing (delays, timing diagrams)
- Analysis of Clocked Sequential Circuits (general models for sequential circuits, timing charts, state tables, graphs)
- Design of Clocked Sequential Circuits

Assignments and Exams:

- **Lab reports:** 20%
- **HWs:** 20%
  
  All HWs are weighted equally (Not all HW problems will be graded, only a selection of HW problems will be graded)

  - **Midterm 1 (Friday, September 23, 5:20pm – 6:15pm):** 15%
    Hitchcock Hall 131
  - **Midterm 2 (Friday, October 28, 5:20pm – 6:15pm):** 20%
    Hitchcock Hall 131
  - **Final (Tuesday, December 13, 8:00pm - 9:45pm):** 25%
    Recitation Students: EL1008
    Lecture Students: SH0100

Midterms and Final will be open-book, open notes and closed technology

One HW with the lowest grade will be dropped
!!Exams Make-up Policies!!

- The final examination may only be taken at the scheduled time. **You must not make travel plans that conflict with the final exam schedule.**
- Midterm and final examination may be made up only due to illness on the days of the exam (a doctor’s note is required) or by advance arrangement (a written request at least one week in advance of the exam is required). The instructor reserves the right to deny any advance request for a make-up exam.

**Academic Misconduct Statement:**

**Academic Misconduct will be handled seriously!**

Any student found to have engaged in academic misconduct, as set forth in the Code of Student Conduct Section 3335-23-04, Prohibited Conduct, will be subject to disciplinary action by the university. Academic misconduct is any activity that tends to compromise the academic integrity of the university, or subvert the educational process.

**Student Conduct:**

Students are expected to abide by the provisions in the Code of Student Conduct. The University’s Code of Student Conduct and Sexual Harassment Policy are available on the OSU Web page.

**Disabilities Statement:**

Any student who feels s/he may need an accommodation based on the impact of a disability should contact the instructor privately to discuss specific needs. Please contact the OSU Office for Disability Services for assistance in verifying the need for accommodations and developing accommodation strategies.