EEL3701: Digital Logic & Computer Systems

Welcome to
EEL 3701: *Digital Logic &*
Computer Systems 🔊

- I am **Dr. Schwartz**. I'll be teaching one lecture section of 3701 this semester, in NEB 202
  - › Tues 4th (10:40-11:30am) & Thur 4th-5th (10:40am-12:35pm)
- **Dr. Bobda** will teach a second section, in WM 100
  - › MWF, 7th (1:55-2:45pm)
- This is the entry course for all courses in computer engineering in the ECE department

need

1

EEL3701: Digital Logic & Computer Systems

Who am I?

- Here's a story, of a man named … ~~Brady~~

DR. SCHWARTZ

2

EEL3701: Digital Logic & Computer Systems

Menu

Look into my ...

- Instructor's Philosophy
- Course Philosophy
- Course Introduction and Procedures
  > Syllabus (see main page on website)
  > Privacy and Student info (see lab page on website)
- Our web-site: ***http://mil.ufl.edu/3701/***
- Overview

See web-site: `syl_f19.pdf`, `schedule.pdf`

EEL3701: Digital Logic & Computer Syst

Share, Borrow, Buy or **Rent** Textbook

(ISBN-13: 7th: 9781133628477, 6th: 9781111781392, 5th: 9780534378048)
(ISBN-10: 7th: 1133628478, 6th: 0495471690, 5th: 0534378048)

7th edition
5th edition
6th edition

The CD is **NOT** needed

Charles H. Roth Jr., ***Fundamentals of Logic Design**, 7th edition*, Cengage
Learning, Stamford, Connecticut, 2014. (**NOT** the international edition.)

Charles H. Roth Jr., ***Fundamentals of Logic Design**, 6th edition*, Cengage
Learning, Stamford, Connecticut, 2009. (**NOT** the international edition.)

Charles H. Roth Jr., ***Fundamentals of Logic Design**, 5th edition*, Thomson
Brooks/Cole Publishing, Belmont, California, 2004.

Note: You do **NOT** need the CD

- CENAGE (https://www.cengage.com/)
  > 7th: New: $209; **E-Rent**: ??
- UF bookstore (http://www.bkstr.com)
  > 7th: New: $233; Used: $175; **E-Rent**: $29
    – **Rent**: $98
- Chegg (http://www.chegg.com/)
  > 7th: Rent: $47; **E-rent**: $25; New: $165; Used: $127
  > 6th: Rent: $20; E-rent: $31
  > 5th: Rent: $12; Used: $10

Amazon (http://www.amazon.com/)
  > 7th: New: $129; Rent: $47; Used: 120
  > 5th: New: $30; Used: $9;

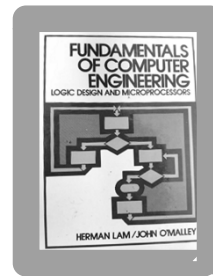| As of 15 Aug 2019	International edition is **NOT** recommended

EEL3701: Digital Logic & Computer Systems

Recommended

H. Lam, and J. O'Malley, *Fundamentals of Computer Engineering: Logic Design and Microprocessors, 1st edition*, 1988, John Wiley and Sons, New York.

> ISBN: 0471610747
> Chapters 1-7 are **NOW** available on our website's Software/Docs page (and at https://tinyurl.com/UF-Lam)
> Google search can sometimes find textbook for less than
>> – Amazon has several under $10 (as of **15 Aug 2019**)
>>> ☞http://tinyurl.com/lam-text

As of
15 Aug 2019

EEL3701: Digital Logic & Computer Systems
Analog Discovery 2 (NAD/DAD) Board

• The **NAD/DAD** is now required for many UF ECE courses
  > Digilent (www.digilent.com) created the boards and still sells them, but NI bought Digilent and now sells them for **less**
• The UF bookstore has a few of the **NADs** (for $225) for those that want to use financial aid or want it right away
  > It can also be ordered online
• The **NAD** can be purchased online for $189 (all inclusive)
  > https://tinyurl.com/NAD-UF-f19
  > Select "Analog Discover 2 – Student Only"
• The **DAD** can be purchased online for $196.90 (all inclusive)
  > https://tinyurl.com/DAD-UF-f19
  > Select "Get Academic Pricing" (on the left) **before** selecting the item
  > If you are an EE student, I recommend that if you buy the DAD-2 (from Digilent) you also buy the NI Multisim software (for analog circuit design and simulation, but **NOT** used in our course), available from for $39.99 as an add on.

EEL3701: Digital Logic & Computer Systems

Philosophy and Syllabus

- Instructor's Philosophy
- Course Philosophy
- Course Introduction

schedule.pdf   **syl f19.pdf**

EEL3701: Digital Logic & Computer Systems

Philosophy and Syllabus

- Class notes (and updates) available on web (for limited time)
- Web tour
  - \>Twitter
  - \>Faculty/PIs
  - \>Labs
  - \>Homework (HW 0)
    - Read Syllabus
    - Upload a head shot (picture) for your Canvas profile (view it!!)
    - Submit *Password for grade retrieval* (view it!!)
  - \>Lab 0
    - Read and submit *Lab Rules and Policies* (view it!!)
  - \>Exams, Classes, Reading, Grades, etc.

EEL3701: Digital Logic & Computer Systems
Peer Instructors (PIs)

- Normally, on this slide I would tell you a little about each ~~TA~~ PI
  - >But with 17 PIs this semester, I don't have enough time!
  - >All have experience and/or rocked 3701 themselves!

EEL3701: Digital Logic & Computer Systems
Where does 3701 fit in?

- Designed to be your first engineering course
  - >You will design, test and construct digital circuits
    - – You will learn debugging techniques, a schematic (circuit) entry program which you will also use to simulate your circuits, and a hardware description language
  - >You will design the basic components of a microprocessor and will program a simplified microprocessor
- 3701 is supposed to be taken as early as possible ~~(but after some programming language)~~
  - >But take a programming class, if possible, **before 3744**

EEL3701: Digital Logic & Computer Systems
Final Exam (Exam 2P)

- The two lecture sections have scheduled final exams at different times; we will have a joint exam
- Who has a conflict with any of the following:
  - Saturday, Dec 7 - Group 27A (7:30am-9:30am)
    - MAC 1114, MAC 1140, MAC 1147, MGF 1106
  - **Saturday, Dec 7 - Group 27B (10am-12pm)**
    - EGN 3353C (Fluid Mechanics), STA 2023 (Statistics)
  - **Saturday, Dec 7 - Group 27C (12:30pm-2:30pm)**
    - MAC 2311 (Calc 1), MAC 2312 (Calc 2)
  - **Saturday, Dec 7 - Group 27D (3pm-5pm)**
    - EGM 2511 (Statics), SPC 2608 (Public Speaking)
  - Saturday, Dec 7 - Group 27E (5:30pm-7:30pm)
    - MAC 1105, MAC 2233, MAC 2234, MAC 2313 (Calc 3)
  - Saturday, Dec 7 - Group 27F (8pm-10pm)
    - ECO 2023 (Microeconomics)

EEL3701: Digital Logic & Computer Systems

The End!