

CSCI 255

- Possibly the last year as CSCI 255
 - Lecture only course next Fall?
 - “Co-listed” as ECE 109
 - Lab only course
 - On computer interfacing
- Course web sites
 - <http://www.cs.unca.edu/csci255>
 - [Lab](#)

CSCI 255 prerequisites and non-prerequisites

- Supposedly CSCI 201
 - But textbook is written as a first course
- Useful but unexpected knowledge
 - Good mathematical skills
 - Boolean algebra or symbolic logic
 - Programming experience
 - Electronics

Success – Time on Task

- **From the UNCA Catalog**
 - 111 General Chemistry Laboratory (1)
 - Introduction to general chemistry laboratory. Experiments include proper and safe laboratory techniques, chemical and physical properties of matter, synthesis of compounds, chemical kinetics and chemical reactions. Does not count for the major or the minor in Chemistry. Pre- or corequisite: CHEM 132, Fall.
- **From the NCSU Catalog**
 - [ECE 200](#)
- **From the MIT Catalog**
 - [6.004](#)
- One credit hour should be about 3 hours of “work” a week
 - Just an approximation
 - Varies from week to week
- Plan on it!

Success – Neatness counts

- Check your spelling and grammar
- Draw neat circuits
- Line up that LC-3 code

NEGX	ADD	R3 , R3 , #5
	BRzp	DONEF
	LD	R5 , TALLY

Success -- Being on time

- Don't start the night before the due date
- Don't start 30 minutes the due time
- Unaccepted excuses
 - Time on moodle was wrong
 - Network was out at 11:00
 - My alarm clock didn't go off
 - Had to go to my girlfriend's car
 - Couldn't log on

Success -- Practice

- Some things you should just know
 - How to convert decimal to binary
 - How to create circuit from Boolean equation
- If it is on the homework
 - Know how to do it for the exam

Success -- Independent work

- You don't learn by copying
- Only claim authorship of your own work
 - Even if the solution appears in the textbook
 - Or was on last year's web page
- If you want to help others
 - Teach them
 - Never email your solution

Experience always helps

- Some students did write programs when they were in middle (or elementary) school
- Some students already know C
- Some students have used a spreadsheet
- Some students have been working as an IT manager for 20 years

Aptitude varies

- The following ain't all the same
 - Learning to write programs
 - Learning to solve equations
 - Learning to create a work of art
 - Learning French
 - Learning the bones of the foot
 - Learning to play well with others

It just isn't always fair

I returned, and saw under the sun, that the race is not to the swift, nor the battle to the strong, neither yet bread to the wise, nor yet riches to men of understanding, nor yet favour to men of skill; but time and chance happeneth to them all. -- Ecclesiastes 9:11

- Be prepared for the some frustration
- It won't always be "fair"

Never discuss religion or politics in polite company – Your grandmother

CSCI 255 topics

- Data representation
- Combinational circuits
- Sequential circuits
- Data path
- Instruction set architecture
- Assembly language
- Input/Output (device interfacing)
- Application binary interface