

**Our Purpose:** Prepare for the study of Computer Science.



## Tools

Virtual machines, Docker containers, Productivity software, Version control, Linux, Emacs, VS Code



## Skills

Touch typing, Command line usage, File system management, Cybersecurity, Networking, Web search and AI



## Concepts

Boolean logic, Data representation, Compression, Formal grammars, Search engine algorithms

### Course Description

(1-0-1) An introduction to essential tools, techniques, and computing concepts that are used and taught throughout the Computer Science major. This course is intended for first-year Computer Science majors. *May not be taken after CSC120 for credit towards the Computer Science major.*

### Time & Place

W 1- 1:50pm • MAC 233

### Instructor

Nadeem Abdul Hamid  
nhamid@berry.edu  
Office: MAC 354B  
706.368.5632

### Student Hours

M W 10am-1pm  
T W 2-3pm  
H 9-11am  
/ by appt.

### Student Learning Outcomes & Assessment Measures

Upon successful completion of this course, students will be able to:

- Work with tools commonly used in software development and computer science. *Measured through* in-class participation and weekly activities.
- Demonstrate basic proficiency in prerequisite skills for studying computer science. *Measured through* completion of online learning modules.
- Reproduce the operation of representative computational algorithms. *Measured through* weekly puzzle challenges.

### Academic Integrity

- Do your own work.
- Do not look at others' work, use it to complete your own, or pass it off as yours.
- Give credit to all sources (including gen Al).



Violations will result in negative point penalty per assignment and notification of the Provost, per Berry College Catalog policy.

### Evaluation Components

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### Grading Scale

Your final grade in the course will be based on completion of the components listed to the left and your earned point score as follows:

To earn:	A	B	C	D	F
Points required:	50	45	40	35	<35

These thresholds will not be raised, but may be lowered by the end of the semester if adjustments to the schedule are made.

Additionally, to earn an **A** in the course, a minimum of the following must be met:

- 12 points attendance (i.e. no more than two absences)
- 5 LinkedIn Learning/edX courses completed
- 5 days of Advent of Cyber tasks completed
- A Pixel Art Competition entry submitted
- Weekly typing practice demonstrated **or** achievement of 60+ WPM rate with an 85%+ accuracy rate

If any of these thresholds is not met, the maximum final letter grade in the course will be capped at a **B**.

### Class Schedule

A detailed schedule of class topics, activities, and assignments is provided separately and will be posted on the Canvas course page.

<http://cs.berry.edu/csc101>

### Accommodation Statement

The Academic Success Center provides accessibility resources, including academic accommodations, to students with diagnosed differences and/or disabilities. If you need accommodations for this or other classes, please visit [berry.edu/asc](http://berry.edu/asc) for information and resources. You may also reach out at 706-233-4080. Please note, faculty are not required, as part of any temporary or long-term accommodation, to distribute recordings of class sessions.



# CSC 101 - Fall 2024 - Schedule

Date	Class Topic(s)	Weekly Activity Timeline [approx. hours in brackets]										Weekly Challenge	PixelArt Competn.	Typing Practice	Advent of Cyber
		MacOS[1]	Windows [2]	Git & Github [4]	Ubuntu [2.5]	Linux CLI [3]	EdX: Power Search [*]	Networkin g[2]	Docker [2]						
Wednesday, August 28, 2024	Welcome, Intro Account & SW setup			Part 1/2											
Wednesday, September 4, 2024	Git & GitHub Linux VM/CLI														
Wednesday, September 11, 2024	<i>Boolean logic</i> OS basics/Env vars										SAT				
Wednesday, September 18, 2024	Productivity: Excel, Trello, VS Code										SGB				
Wednesday, September 25, 2024	Quadtrees Linux CLI scav hunt										QDT				
Wednesday, October 2, 2024	File sys, compression, Data formats, file types										EXT				
Wednesday, October 9, 2024	Markdown Github pages		Part 3/4								CKS				
Wednesday, October 16, 2024	L-systems, Grammars										LSY				
Wednesday, October 23, 2024	Emacs										LSH				
Wednesday, October 30, 2024	Ubuntu web server														
Wednesday, November 6, 2024	<i>PageRank</i> Web search; AI										ISC				
Wednesday, November 13, 2024	Networks														
Wednesday, November 20, 2024	Docker														
Wednesday, December 4, 2024	Conclusion														

*Schedule subject to change.*

SAT = Boolean Satisfiability problem • SGB = Student grade book worksheet • QDT = Decode a quad-tree image encoding • EXT = File format puzzle • CKS = Determine the correct version of a file • LSY = L-system design • LSH = Linux scavenger hunt • ISC = Internet search challenge.