

Dr. Gina Bai

Fall 2022



Instructor

- Dr. Gina Bai
- rui.bai@vanderbilt.edu

- Office: FGH 381
- Office Hours:
 - Mon/Wed, 10:00am 11:30am
 - OR by appointment

Teaching Assistants (TAs)

We have a group of TAs!

- Names, emails, office hours will be posted on Brightspace > Content > Staff
- ALL TA office hours will be held in FGH 201
- SHARED TA office hours



- https://piazza.com/vanderbilt/fall2022/cs1101
- Preferred communication method
- Class discussions & Questions
 - All questions related to programming assignment
 - You are encouraged to ask questions and answer other's questions
 - NEVER post your code publicly

What is Computer Science?

Computer science is the study of computation

 Computer science and engineering is the systematic study of algorithmic processes that describe and transform information: their theory, analysis, design, efficiency, implementation, and application.

by ACM (Denning, et al., 1988)

Challenges when dealing with computers

Computers have no rational thought.

Computers require steps of instructions that are very specific.

Computers do not understand natural languages.

What is computer programming?

Computer Science is not just programming

- Computer Programming
 - The art of **designing** and **writing** a group of **instructions** that the computer's processor executes.
 - Program: a list of instructions to be carried out by a computer

How do we interact with computers?

- Programming languages
 - allow us to write code that uses mostly English and arithmetic operators.

- Compiler
 - translates code we can understand into 0's and 1's that the processor can understand.

What will you learn in CS1101?

- Problem Solving
 - the purpose of writing a program is to solve a problem
- Java programming language
- Concepts of Object-Oriented Programming (OOP)
 - encapsulated collection of data variables and methods
- Documentation techniques

Course Resources – Required



Brightspace

Grades, announcement, ...



TopHat

In-class activities / Participation

Course Resources – Required



zyBook

Textbook

"ZY" assignments: Assignment



"PA" assignments: Chapter 12

12. Programming Assignments (PAs) | zyLabs

Course GitHub Repo

Lectures ~

Course materials are also available on Course GitHub Repo.



Or visit:

https://ginabai.github.io

Tentative Schedule

Slides will be posted before the class meetings, check often.

Week	Date	Topics	Assignments (Central Time)
1	Aug 24	• Introduction	HW0-A , HW0-B on Brightspace > First Week DUE: Monday, Aug 29, at 11:59 pm
	Aug 26	Structure of Java Write-Compile-Execute	 ▶ PA00-A , PA00-B in zyBook > Chap 12 DUE: Thursday, Sept 1, at 11:59 pm ▶ ZY-1 , ZY-2A in zyBook > Assignments DUE: Saturday, Sept 3, at 11:59 pm
2	Aug 29	 Debugging Program Errors Primitive Data Type Recommended Reading: Oracle - Java Tutorial: Primitive Data Types 	
	Aug 31	ExpressionsVariablesScanner with integers	
	Sept 2	Math Class Constant & Class Constant	
3	Sept 5	Strings Scanner with Strings	
	Sept 7	Static Method Parameter & Return Value	
	Sept 9	 Passing Parameters Verify Parameter Values Scanner as a Parameter	
4	Sept 12	Boolean Equality, Relational, Logic Operators	
	Sept 14	Conditionals Conditional expressions	
	Sept 16	 TBD: 1) Finish the topics above if needed, or 2) Exam 1 review, or 3) more conditionals 	
5	Sept 19	Exam 1 Review and/or Q&A	
	Sept 21	Midterm Exam 1	

Course Resources – Required



codePost

Assignment grading



Gradescope

Exam grading

Course Structure

TopHat Activities - 5%

 To receive 100% of the grade, you must complete 70% of all TopHat questions during classtime

Course Structure

Assignments

- zyBook Activities (Participation & Challenge) 10%
 - "ZY", ~10 in total
 - To receive 100% of the grade, you must complete 90% of all zyBook activities
- Programming Assignments 45%
 - "PA", ~11 in total

Late Work Policy

- zyBook Activities
 - No late submissions are accepted without a note from the Dean's office
- Programming Assignments
 - Penalty
 - 20% for (0, 24] hours late
 - 50% for (24, 48] hours late
 - Assignments will be accepted late up to 48 hours.

Late Work Policy

FOUR free late days for programming assignments ("PA")

- One late day extends a deadline by 24 hours
- Regardless of the use of free late days or not, no submissions will be accepted 48 hours after the due date
 - Also means we only allow up to two late days per assignment
- Two free late days are given at the beginning, the remaining two will be given at the start of Week 8

Course Structure

Exams

- Midterm 1 10%
 - Sept 21
- Midterm 2 **15%**
 - Oct 26
- Final 15%
 - Dec 13

Exam make-up policy

Midterms

- Makeups only for serious (documented) reasons
- A student sending an email or leaving a phone message does not constitute permission
- Otherwise, 20-100% penalty may be assessed

Final

No alternate dates

Grading Disputes

- Regrade requests MUST be submitted within TWO weeks after grades are released
 - Where do I find the grades?
 - For assignments, visit codePost
 - For exams, visit Gradescope
 - Who do I contact about the grading disputes?
 - For assignments, contact TAs
 - For exams, contact your instructor (yea that's me)

Academic Integrity

ALL violations will be reported to the Honor Council

Read the Academic Honesty Policy (Brightspace > Content > Course Documents) carefully for examples of academic misconduct in CS1101

- Cheating
- Plagiarism
- Aiding & Abetting
- Destruction of Academic Materials

Protect yourself

- Do not leave your workstation and/or laptop unattended or forget to log yourself out
- Do not email, ftp, or post your code on the Internet, message boards, etc.
- Do not discuss implementation details of individual assignments with your peers
- •
- Ask the instructor for clarification of any questions or concerns about academic integrity policies before submitting an assignment

What You Should Do After Class

- Purchase your zyBook subscription We start this week!
- Complete Homework 0-A and 0-B by Monday (08/29, at 11:59pm)
 - On Brightspace under Content > First Week
 - HW0-A
 - Read the Academic Honesty Policy (under Content > Course Documents)
 - Must receive all 10 pts to be considered for completing the quiz
 - HW0-B
 - An informal student survey