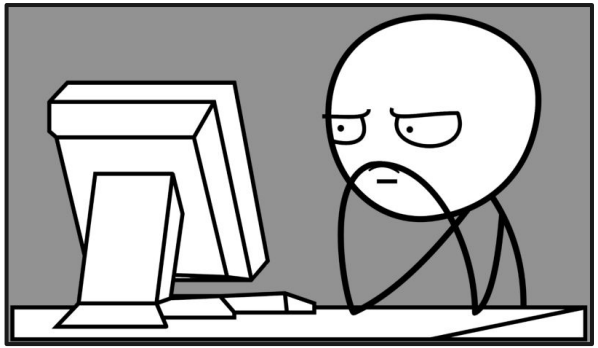
# SWEN-601
# Software Construction

Course Overview

# Logistics

- During each week of the semester, SWEN-601 will meet 2-3 times for 50-75 minutes.
- Each class will include some combination of the following:
  - A quiz
  - A lecture
  - Hands on coding activities
- During most weeks you will be responsible for:
  - 2 quizzes (in class)
  - 2 homework assignments



The major focus of this class is to give you ***hands on*** experience designing, writing, compiling, and running computer programs.

You will also learn core computer science concepts including algorithms, data structures, and complexity.

# Grades

- A minimum grade of B is required to pass this course.
- Your instructor *may* consider rounding grades up.
  - For example a 82.6% may qualify a student for a B.
  - This is up to the discretion of the individual instructor.
  - In general, grades will not be rounded up more than half a percentage point.
- Students that regularly attend class, respond to feedback, visit their instructor during office hours, and generally seem to *try* are more likely to benefit.

| Grade | Percentage Range |
|---|---|
| A | at least a 93 |
| A- | at least a 90 |
| B+ | at least an 87 |
| B | at least an 83 |
| B- | at least an 80 |
| C+ | at least a 77 |
| C | at least a 73 |
| C- | at least a 70 |
| D | at least a 60 |
| F | less than 60 |

# Grading

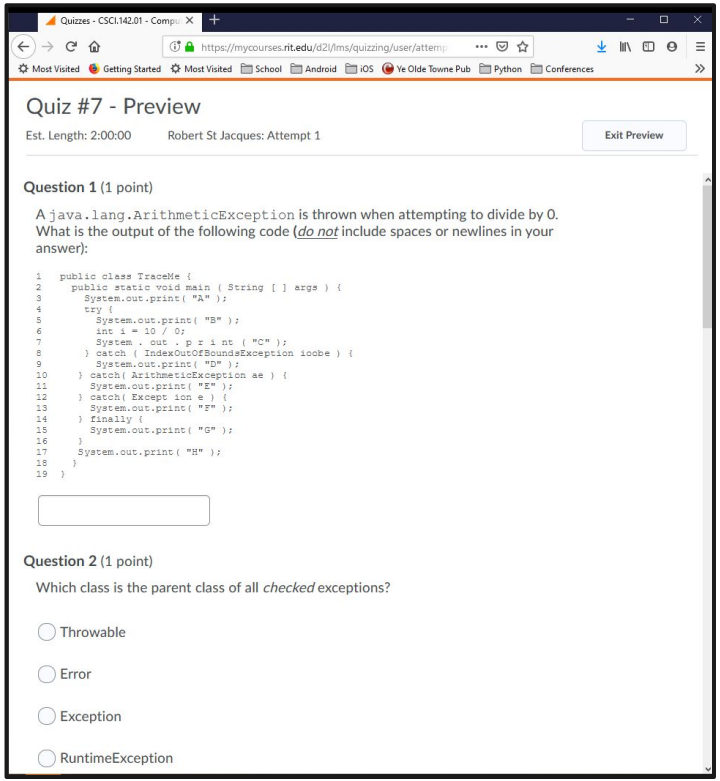
- Quizzes - 10%
  - ~5 minutes, start of class
- Homework - 20%
  - ~2 assignments per week
  - Assigned during lecture
  - Due Friday and Sunday
- Practica - 45%
  - 15% each
- Final Exam - 25%
  - Comprehensive


All work in this course should be the result of each ***individual*** student's effort.

Students that collaborate on quizzes, homework, practica, or exams are cheating.

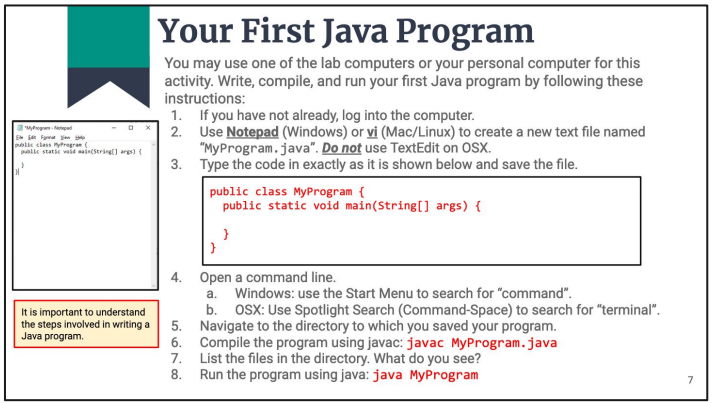
# Quizzes

- At the beginning of each class, you will spend about 5 minutes taking a quiz.
  - The quizzes will be administered through MyCourses.
  - Each quiz will usually cover material from the previous class.
- As much as possible, quizzes will be graded automatically.



# Class Activities

- Your instructor will frequently pause during the lecture to give you an opportunity to practice small problems on one of the lab computers.
  - You may also use your personal computer.
- These activities are *not graded* and are simply provided to give you a chance to practice.
  - However, you are expected to participate to the best of your ability.
  - Questions are encouraged!
- The instructor will go over the solution to each activity before moving on to the next segment of the lecture.

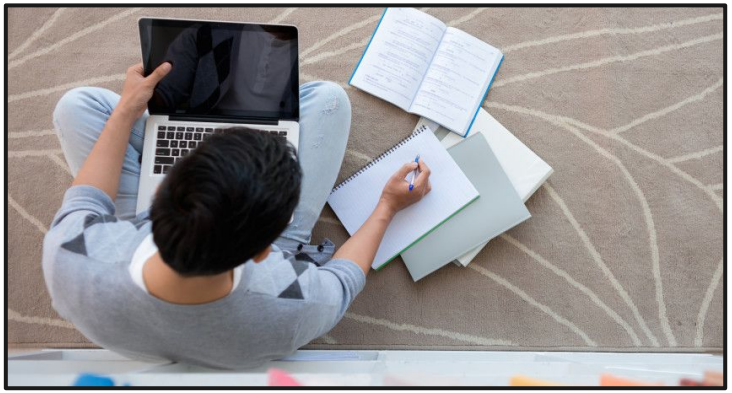



You will be given a limited time to complete each activity, during which you are encouraged to ask for help.

Practicing activities outside of class is an excellent way to study for quizzes and practica.

# Homework

- A homework assignment will be assigned after each lecture.
  - The homework will provide you with an opportunity to demonstrate your understanding of the accompanying lecture material.
- You will have at least 3 days to complete each assignment.
  - Though the two assignments will overlap.
- In general, homework assignments will be due each Friday and Sunday.
  - Solutions will be submitted to MyCourses.



Assuming that the student has a firm grasp of the corresponding material, each homework assignment will be designed to be completed within 2-4 hours.

While the homework assignments will be due after the quiz on the corresponding material, they will perhaps be the most effective way to study for the quizzes.

# Practica

- There will be a practical exam approximately every 3-4 weeks during the semester.
  - A practical exam is meant to test a student's ability to apply what they have learned to solve a real problem.
- Each practical will require the student to implement the solution to a provided problem within the class period.
- This will include:
  - Creating a project
  - Designing, implementing, and testing a solution
  - Committing the final solution to GitHub
  - Submitting a ZIP archive to MyCourses

The MyCourses assignment will close at the end of the class period. You should begin the submission process at least 5 minutes early.

# Final Exam

- The Final Exam will be comprehensive.
- You will have 2.5 hours to complete the exam.
  - There will be a 75 minute practical component.
  - There will be a 75 minute written component.
- We will spend the last day of class reviewing for the exam.
- Your instructor will notify you of the exact time, date, and location as soon as the exam has been scheduled.
  - This is usually in the 3rd or 4th week of the semester.


You should ***avoid*** making any travel plans until you know when your final exams have been scheduled.

If you must make your plans before the exam has been scheduled, ***do not*** plan to travel before the last day of finals.

# Academic Honesty

- Academic Dishonesty refers to:
  - Copying significant amount of code (even if you retype it).
  - Over-collaborating with another student.
  - Submitting another person's work as your own.
- The penalties for academic dishonesty may include:
  - A 0 grade for an assignment.
  - A 0 grade for the course for a 2nd offense (even in a different course).
  - Expulsion from the program or university.
  - etc.


The instructor is ***required*** to investigate any instance of suspected cheating and to determine the appropriate penalty.

# QUESTIONS?!