The CS 1331 Advanced Standing Exam will be offered as a proctored online exam. In order to take the exam, you will need:

1. Reliable Internet Service
2. A Computer
3. A Web Camera
4. A Working Microphone
5. A Photo ID
6. For verification purposes, find a room that would not require you to wear a face mask

The exam will be given: **Friday, January 15, 2021, starting at 5:00 p.m. EST.**

**Students will be required to sign in 10 minutes prior to the start of the exam and will have 2 hours to complete the exam (from 5:00 p.m. – 7:00 p.m. EST). No makeup or alternate times are available.** If you register for an exam, please be sure that you will have uninterrupted internet access during the exam.

1. **Deadline to sign up for Exam:** **Wednesday, January 13, 2021, 12:00 noon, EST.**
2. You must have credit for an intro CS course (CS 1301, 1315, or 1371) before taking the exam.
3. Students are not eligible to take an Advanced Standing Exam for a CS course after attempting the course at Georgia Tech and receiving a letter-grade or "W".
4. If you pass the exam, allow 3-4 weeks for the credit to show on your transcript.
5. A maximum of 9 credit hours of advanced standing can count toward your degree.
6. Seats are being saved in CS 1332 for CS majors who pass the exam and students will receive a prereq override and permit for the reserved seats after the exam is graded. Non-CS majors who pass the exam and wish to take CS 1332 will need to contact advising@cc.gatech.edu. Permits will be given if there are remaining seats after accommodating CS majors.

**Instructions to Sign-up for the Exam:**

1. Make a payment of $90 to your Bursar’s Account. This must be done first.
2. Print, complete and sign the Advanced Standing form from the Registrar’s website (https://registrar.gatech.edu/info/advanced-standing-form).

3. The reason for taking the exam should indicate how you gained your JAVA knowledge (for example coursework at another university, work experience, self-study, etc.). Please note that the CS 1331 exam is a very challenging exam. Students must know JAVA extremely well to pass. The pass rate is usually around 50%. Please don’t sign up just to see how you do. Only sign up if there is a reasonable expectation that you will pass the exam. See topics covered below.

4. Sign in to DocuSign with your gt credentials, https://esignature.gatech.edu/cfeis/docusign/

5. Choose “NEW” where it indicates “Sign or Get Signatures”

6. Select “Send an Envelope”

7. Upload your form

8. Under “Add Recipients to Envelope” indicate
   a. Name – College of Computing
   b. Email – advising@cc.gatech.edu

9. Click “NEXT”

10. Click “SEND”

11. Once approved in CoC, you will receive a copy and CoC will notify the Bursar’s Office and the Registrar’s Office. No further action is needed on your part.

   After the sign-up deadline, January 13th at noon, and before the exam, those registered will be added to the canvas site and receive further instructions.

Topics Covered:

- Java
- Wrapper Classes
- Object Class
- JVM
- IDE
- API
- Method Chaining, Overloading, & Overriding
- OOP
- Abstraction
• Encapsulation
• Inheritance
• Constructor Chaining
• Polymorphism
• Dynamic Binding
• Interfaces
• Abstract Classes
• Generics
• Private Inner classes
• Exceptions
• I/O: console, keyboard, file
• Programming Fundamentals
• Recursion
• GUIs
• Data Structures