Learning Objectives in this Lesson

• Understand the course topics & logistics
  • Course philosophy
  • Course contents
  • Structure of the lecture material
  • Overview of the assignments & assessments
• Setting up the Java & Android IDE on Android Studio
• Setting up GitLab et al.
• Accessing Android & Java source code
• Summary
Summary
• You will get out of this course what you put into it
Summary

- You will get out of this course what you put into it
- Be prepared to work hard

“Human Felicity is produc'd not so much by great Pieces of good Fortune that seldom happen, as by little Advantages that occur every Day” - Benjamin Franklin
• You will get out of this course what you put into it
• Be prepared to work hard
• Do *not* miss deadlines...
Summary

• You will get out of this course what you put into it
• Be prepared to work hard
• Do *not* miss deadlines...
• Participate in discussions in class & on piazza

See piazza.com/vanderbilt/fall2022/cs253
Summary

• You will get out of this course what you put into it
• Be prepared to work hard
• Do *not* miss deadlines...
• Participate in discussions in class & on piazza
  • Please get in the habit of checking piazza frequently!
Summary

• You will get out of this course what you put into it
• Be prepared to work hard
• Do *not* miss deadlines...
• Participate in discussions in class & on piazza
• No laptops/phones in class unless explicitly allowed

Failure to comply with this rule will cost you participation points.
You will get out of this course what you put into it
- Be prepared to work hard
- Do *not* miss deadlines...
- Participate in discussions in class & on piazza
- No laptops/phones in class unless explicitly allowed
- Avail yourself of available resources
Summary

- You will get out of this course what you put into it
- Be prepared to work hard
- Do *not* miss deadlines...
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- No laptops/phones in class unless explicitly allowed
- Avail yourself of available resources
  
  • My website contains a lot of useful information!

Course Videos and Slides By Week

All lecture videos for this course will be available on my [CS *253 YouTube playlist](https://www.youtube.com/playlist?list=PLCS253) as they are created. I will also post links to the individual videos and PDF versions of the slides below. Please see [this playlist](https://www.youtube.com/playlist?list=PLCS253) for videos covering foundational Java functional programming features and classes, including lambda expressions, method references, and functional interfaces.

- **Week 1**
  - CS 253 Course Overview and Logistics (Part 1) ([MP4](https://www.youtube.com/watch?v=1234567890) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture01.pdf))
  - CS 253 Course Overview and Logistics (Part 2) ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture02.pdf))
  - Overview of Concurrent Programming Concepts ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture03.pdf))
  - Overview of How Concurrent Programs are Developed in Java ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture04.pdf))
  - Walkthrough of Assignment 1a ([MP4](https://www.youtube.com/watch?v=0987654321))
  - Configuring Git for Your Assignments ([MP4](https://www.youtube.com/watch?v=0987654321))

- **Week 2**
  - Overview of Parallel Programming Concepts ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture05.pdf))
  - Overview of How Parallel Programs are Developed in Java ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture06.pdf))
  - History of Java Concurrency and Parallelism Mechanisms ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture07.pdf))
  - Evaluating Java Concurrency and Parallelism Mechanisms ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture08.pdf))
  - Overview of Java Streams ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture09.pdf))
  - Understanding Java Streams Components ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture10.pdf))
  - Visualizing Java Streams in Action ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture11.pdf))
  - Comparing Java Sequential Streams with Parallel Streams ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture12.pdf))
  - Recognizing Java Streams Features ([MP4](https://www.youtube.com/watch?v=0987654321) [PDF](https://www.dre.vanderbilt.edu/~schmidt/cs253/lecture13.pdf))

See [www.dre.vanderbilt.edu/~schmidt/cs253](http://www.dre.vanderbilt.edu/~schmidt/cs253)
Summary

• You will get out of this course what you put into it
• Be prepared to work hard
• Do not miss deadlines...
• Participate in discussions in class & on piazza
• No laptops/phones in class unless explicitly allowed
• Avail yourself of available resources

Please resist the urge to email me (you can use private piazza posts if it’s a confidential matter or you’d like to schedule a meeting)!
Summary

- There are abundant opportunities!

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Summary

• If there’s an emergency, pay attention to the escape route!

• See engineering.vanderbilt.edu/about/evacuationplans.php
CS 253: Parallel Functional Programming with Java, Android, & Spring WebFlux: Overview (Part 4)