

# TCSS 305 Programming Practicum

**School of Engineering and Technology, University of Washington Tacoma**

Welcome to the course materials for TCSS 305. Use this site to access assignments and learning guides throughout the quarter.

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## Assignments

Assignment	Description	Due
<b>A1a: Introduction</b>	Environment setup, implement <code>StoreItem</code>	Week 1
<b>A1b: Testing</b>	Test-Driven Development, write JUnit tests	Week 2
<b>A1c: Bookstore</b>	Implementing an API, (INTRO)Inheritance, Polymorphism	Week 3
<b>A2: Road Rage</b>	Implementing an API, Inheritance, Polymorphism	Week 5
<b>A3: Sketch Pad</b>	Event-driven programming	Week 6
<b>Group Project: Tetris</b>	2D Graphics Observer pattern, team collaboration	Weeks 7-10

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## Getting Help

- **Office Hours:** See Canvas for schedule
  - **Discord:** //TODO Link
  - **Site Issues:** [Report an Issue](#)
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## About This Site

This site was created through collaboration between the course instructor and [Claude](#), an AI assistant by Anthropic. Claude assisted with content development, organization, and site structure while the instructor provided domain expertise, pedagogical direction, and editorial oversight.

This site is a work in progress. Additional guides and readings will be published throughout the quarter as content is developed. The reference table below will be updated as new materials are added.

## References

### Primary Texts:

- Bloch, J. (2018). *Effective Java* (3rd ed.). Addison-Wesley.
- Horstmann, C. S. (2022). *Core Java, Volume I: Fundamentals* (12th ed.). Oracle Press.
- Reges, S., & Stepp, M. (2020). *Building Java Programs* (5th ed.). Pearson.
- Martin, R. C. (2008). *Clean Code: A Handbook of Agile Software Craftsmanship*. Prentice Hall.
- Beck, K. (2002). *Test Driven Development: By Example*. Addison-Wesley.

### Foundational Papers:

- Meyer, B. (1992). Applying "Design by Contract". *IEEE Computer*, 25(10), 40-51.

### Language Documentation:

- [Oracle JDK 25 Documentation](#) – Official Java SE reference
- [Oracle Java Tutorials](#) – Official Java tutorials

### Testing Frameworks:

- [JUnit 5 User Guide](#) – Official JUnit 5 documentation

### Style Guides and Linting:

- [Google Java Style Guide](#) – Industry-standard style guide
- [Checkstyle Documentation](#) – Official Checkstyle documentation
- [Oracle Code Conventions for Java](#) – Original Sun/Oracle conventions

### Tooling:

- [JetBrains IntelliJ IDEA Documentation](#) – Official IDE reference
- [GitHub Documentation](#) – Official GitHub guides

### Supplementary Resources:

- [Baeldung](#) – Practical Java tutorials
- [Martin Fowler's Blog](#) – Software architecture and design

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