

Schedule

Week 1

- Mon**
- (Java/OOP) Classes, fields, constructors, encapsulation
 - (Java/OOP) methods, parameters, local variables, constants/final
 - (Coding) variable and method naming
 - Video: Names++
 - Reading: Clean Code chapters 1, 2
 - Activity: 1 hour coding practice: grade reading and gpa computation
 - (Java/OOP) static methods
- Tue**
- (Coding) Function arguments, command-query separation
 - Video: Functions
 - Reading: Clean Code chapter 2
 - (Java/OOP) Inheritance vs Delegation
- Wed**
- (Principles) General values and principles for coding
 - (Principles) Single Responsibility Principle
 - Reading: ASD chapter 8
 - (Principles) Open-Closed Principle
 - Reading: ASD chapter 9
 - (Principles) Liskov Substitution Principle
 - Reading: ASD chapter 10
- Thu**
- (Practices) Principles of Agile Development
 - Reading: ASD chapters 1-3
 - (Practices) User Stories
 - (Practices) CRC Cards
- Fri**
- (Practices) Version Control Basics
 - (Practices) Issue Management

Week 2

- Mon**
- (Coding) Comments, Formatting
 - Video: Clean Code, Form
 - Reading: Clean Code, chapters 4, 5
 - (Coding) Law of Demeter (Tell, don't ask)

- Reading: Clean Code, chapter 6
- Work on Project
- Tue**
 - (Practices) Test-Driven Development
 - Reading: Clean Code, chapter 9
 - Reading: ASD, chapter 4
 - Video: TDD Part 1 and 2
 - Video: Advanced TDD Part 1?
 - (Java/OOP) Interfaces
 - (Principles) Dependency Inversion Principle
 - Reading: ASD chapter 11
- Wed**
 - (Principles) Interface Segregation Principle
 - Reading: ASD chapter 12
 - (Practices) Version Control Advanced
 - Work on Project
- Thu**
 - (Patterns) Command
 - Video: Clean Code: Design Patterns
 - Reading: ASD chapter 13
 - (Patterns) Template Method, Strategy
 - Video: Strategy and Template Method Patterns
 - Reading: ASD chapter 14
 - (Patterns) Facade, Mediator
 - Video: Clean Code: Pattern Roundup
 - Reading: ASD chapter 15
 - (Practices) UML Class Diagrams
 - Work on Project
- Fri**
 - (Java/OOP) Inner classes
 - (Coding) Exception Handling
 - Reading: Clean Code chapter 7

Week 3

- Mon**
 - (Patterns) Factory
 - Video: Clean Code: Factories
 - Reading: ASD chapter 21
 - TODO: Refactoring earlier

- (Coding) Refactoring: Basic extractions, Inline
 - Video: Function Screenshot, Prime Number Generation
 - Reading: ASD chapter 5
- Work on Project

Tue - (Patterns) Null Object - Video: Clean Code: Pile O'Patterns - Reading: ASD chapter 16 ~ - (Patterns) Singleton, Monostate - Video: Clean Code: Pile O'Patterns - Reading: ASD chapter 17 - (Coding) Refactoring: Moving, signature change - Work on Project

- Wed**
- Reading: Clean Code, chapter 17 (smells/heuristics)
 - Work on Project

- Thu**
- (Patterns) Observer
 - Video: The Observer Pattern
 - Reading: ASD chapter 24
 - (Patterns) Adapter, Bridge, Proxy
 - Video: Clean Code: Pile O'Patterns
 - Reading: ASD chapters 25, 26
 - Work on Project

- Fri**
- (Patterns) Composite
 - Reading: ASD chapter 23
 - (Practices) UML Sequence Diagrams
 - Work on Project

Week 4

- Mon**
- (Java/OOP) packages, modules (earlier?)
 - (Patterns) Visitor
 - Reading: ASD chapter 28
 - Work on Project

- Tue**
- (Patterns) State
 - Video: Finite State Machines and State Pattern
 - Reading: ASD chapter 29
 - Work on Project

- Wed**
- Work on Project

- Thu**
- Work on Project

- Fri**
- Work on Project