

Prerequisite Knowledge Programming and Ability

CIS 399, Android Application Development

What do you need to already know and be able to apply to succeed in this class?

Basic Principles of Object Oriented Programming:

- Polymorphism
- Inheritance
- Encapsulation



Intermediate Java Language Features

- Interfaces
- Abstract classes
- Overriding base class methods
- Generics
- Collections (especially the List and HashMap classes)
- Annotations

Best Practices for Software Development

- DRY (Don't Repeat Yourself) code
Don't copy and paste blocks of code
- Separation of concerns
For example, use separate modules for:
 - UI (User Interface)
 - Business logic (computation)
 - Data manipulation (back-end)
- Highly cohesive, loosely coupled
 - Classes should have a single responsibility
 - Each method should do just one thing
 - Public APIs should be minimal (only what is really needed)
- Programming style
 - Use meaningful names
 - Write comments that explain "why"
 - Follow the style conventions of the community in which you are working