

# What This Course Is Object Oriented Analysis and Design

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# What This Course Is Not

- UML as Documentation
- UML as Programming Language
- Certification Prep
- Introduction to Rational Rose
- UML tools how to

# How We Develop Software Matters

- Saves Money
- Save Jobs
- Save Lives

# Course Biases

- Agile Development
- How to think and design in objects
- UML as sketching

# Course Biases — Agile Development

- Agile Process
- Minimal Artifacts

# Course Biases — How to think and design in objects

- GRASP
- Patterns

## Course Biases — UML as sketching

- Bare minimum syntax
- Bare minimum charts
- Other tools

# IBM Certification

- IBM Object-Oriented Analysis and Design with UML <http://www-03.ibm.com/certify/tests/edu486.shtml>

# Course Outline

# I. Process Basics

- Agile
- UP
- XP

## II. Core Principles of OOAD

## III. Analysis Techniques

- Use Cases
- Domain Models
- System Sequence Diagrams

## III. High Level Design Techniques

- Logical Architecture (Package Diagrams)
- Class Diagrams
- Interaction Diagrams
- GRASP
- GOF Patterns