

## CS 485 Exam 1 Review Topics

All the material in the Shalloway book  
Vocabulary in particular is important.

No material found **only** in Meyers.

### C++

- Constructors
- Destructors
- Dynamic Memory
- CopyAndSwap
- Inheritance
- Virtual/Pure Virtual
- CopyAssignmentOperator
- Polymorphism

**Any topic addressed via source code in CS485\_Student\_Examples.**

### UML

Be able to produce and read a UML diagram comparable to the UML diagram for Bank.

### Design

- Define encapsulation
- Given a UML diagram, explain if that is a good design. In particular, explain what is being encapsulated.
- SOLID
- Composition/Aggregation/Inheritance
- What is an interface?
- Cohesion & Coupling
- Explain “program to the abstract”.
- Abstract vs Concrete.