

OBJECT-ORIENTED PROGRAMMING

Course Number 20-260-635-901

**University of Cincinnati
Department of Electrical and
Computer Engineering
Cincinnati, Ohio**

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Course Prepared by Richard Conn

COURSE ROADMAP

**Software
and
Software Engineering**

**Design Methodologies
and
Graphical Notation**

**The
Object Model**

**Programming Languages
Ada and C++**

Class Project

COURSE SCHEDULE

<i>Module</i>	<i>Title</i>	<i>Dates</i>
1	Software and Software Engineering	Apr 4
2	Design Methodologies and Graphical Notation	Apr 4, 11
3	The Object Model	Apr 18, 25, May 2
	<i>Midterm Exam</i>	May 2
4	Object-Based Programming Languages - Ada	May 9, 16
5	Object-Oriented Programming Languages - C++	May 23, 30, Jun 6
	Project Review and Evaluation	Jun 13

**All Classes are in Baldwin 862, 9:20-
12:00AM, Saturdays**

PROJECT SCHEDULE

<i>Phase</i>	<i>Date</i>
Project Team Selection, Analysis Begins	Apr 4
Project Analysis Complete (2 weeks)	Apr 18 ✓
Project Design Complete (2 weeks)	May 2 ✓
Project Prototype (2 weeks)	May 16 ✓
Prototype Analysis (1 week)	May 23 ✓
Revised Design Complete (1 week)	May 30
Final Code with Demonstration (2 weeks)	Jun 13 ✓

**IV&V Reports are due for each graded activity
Checkmarks (✓) indicate graded activities**

COURSE MATERIALS

★ **Course Notes**

- ✓ **Cover -- Roadmap, Schedule, Materials List, Grading**
- ✓ **Lesson Plan and Student Workbook**
- ✓ **Project Templates: SDP, SRS, SDD, SUM, IV&V Report**
- ✓ **Workbook on Ada Programming**
- ✓ **Workbook on C++ Programming**
- ✓ **Lecture Notes**

★ **Text: Grady Booch, *Object-Oriented Design with Applications*, Benjamin/Cummings Publishing Company, 1991, ISBN 0-8053-0091-0**

GRADING

- ★ **Class Attendance**
 - ✓ 75% Required to Pass Course (negotiable)
- ★ **Homework Assignments**
 - ✓ 1 Midterm Exam, 40 Points
- ★ **Project**
 - ✓ 5 Subprojects and IV&V Reports
 - ✓ Four Grades (NA=0, SA=5, A=10, E=15 points):

Not Acceptable (NA) - Subproject Does Not Meet Minimum Quality Level

Susceptable to Being Made Acceptable (SA) - Subproject Could be Improved

Acceptable (A) - Subproject is Satisfactory

Exceptional (E) - Subproject is Above and Beyond the Call

- ★ **Late Homework Assignments and Subprojects: -10% per class**

<i>Point Totals</i>	
<i>A=90-100, B=80-89, etc.</i>	
Midterm Exam	40
Subprojects	50
IV&V Reports	10
<i>Total</i>	100
<i>Total Possible</i>	125