

Introduction

CMSC 341, Park

- Why are you here?!?!
- What are data structures?
- Layout of course info—mostly web pages
 /userpages.umbc.edu/~chang/cs341.s17/
 Schedule, HWs and projects, exams, staff info, lecture notes
- We will be following book closely
 - Be sure to read before you arrive in class
- Not teaching programming: teaching *how to think*

Student Honor Code

UMBC Student Honor Code

By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC's scholarly community in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to, suspension or dismissal. To read the full Student Academic Conduct Policy, consult the UMBC Student Handbook, the Faculty Handbook, or the UMBC Policies section of the UMBC Directory.

<http://www.umbc.edu/provost/integrity/index.html>

Prerequisites

- 202:
 - Classes: design and use
 - STL
 - Overloading, overriding
 - Debugging
- 203:
 - Proof by induction
 - Permutations and combinations

- Tools/IDEs
 - Emacs, Eclipse, Visual Studio
 - However, final test must be on GL
- Project & HW submissions
- Make
 - Basic structure: rule = target/dependencies/actions
 - Dependency recursion
 - Default rules, helper rules
 - Implicit rules
 - Variables/macros

Advanced Makefile

```
PROJ    = Proj1
CC      = g++
CCFLAGS = -g -ansi -Wall

SOURCES = $(PROJ).c Inventory.h Inventory.c Cd.h Cd.c Date.h Date.c
OBJECTS = $(PROJ).o Inventory.o Cd.o Date.o

$(PROJ): $OBJECTS
    $(CC) $(CCFLAGS) -o $(PROJ) $(OBJECTS)

$(PROJ).o: $(PROJ).c Inventory.h
    $(CC) $(CCFLAGS) -c $(PROJ).c

Inventory.o: Inventory.c Inventory.h Cd.h
    $(CC) $(CCFLAGS) -c Inventory.c

Cd.o: Cd.c Cd.h Date.h
    $(CC) $(CCFLAGS) -c Cd.c

Date.o: Date.c Date.h
    $(CC) $(CCFLAGS) -c Date.c

.PHONY: submit
submit:
    submit cs341 $(PROJ) $(SOURCES) Makefile *.txt

.PHONY: print
Print:
    enscript -G2rE $(SOURCES) Makefile *.txt
```