

Design Process Quiz

ANSWER KEY

1. (6 pts) Fill in the missing steps of the OO software design process.

- (a) Outline problem at high level
- (b) *Determine use cases for system*
- (c) Make a list of nouns
- (d) List the responsibilities and knowledge for each possible class
- (e) *Create CRC cards*
- (f) *Turn CRC cards into UML boxes*
- (g) Connect UML boxes with relationship arrows

2. (4 pts)

You've grown bored of the new myBucknell already and decided to implement your own web interface called myMiniBucknell. The myMiniBucknell interface reduces the set of options available to users to submitting and receiving documents; creating, deleting, enrolling in and dropping classes; and posting and deleting broadcast messages to a message board. Identify four possible types of user for this system and determine what functionality each should be able to access and how that functionality is limited. **Answers will vary, but you need to provide a persuasive and realistic view of the school.**

- **Student:** *submit to and receive documents from a Professor, enroll and drop classes for themselves by a set date, post and delete own messages*
- **Professor:** *submit to and receive documents from a Student, enroll and drop Students from own class by a set date, post and delete own messages*
- **School Administrator:** *enroll and drop Students from any class at any time, create and delete any class, post own messages and delete own and any Student messages*
- **System Administrator:** *create, delete, enroll, and drop any person from any class at any time; delete any message from message board*