The 12 week exam will concentrate on material covered in class or labs after the 6 week exam. Here are the main topics we discussed:

1. PHP and MySQL
   a. variables, constants, arrays (numerically indexed arrays and associative arrays)
   b. control statements (if, for, foreach, while, …)
   c. files
   d. functions
   e. objects/classes, inheritance
   f. Work with MySQL using PHP
      i. Connect to a database
      ii. Query
      iii. process results
      iv. close connection
   g. authentication and sessions
      i. Passwords
      ii. Session variables

2. SQL VIEWS
   a. SQL View is a virtual table that is constructed from other tables or views.
   b. Syntax: CREATE VIEW viewname AS viewquery
   c. Order By clause cannot be used in the Create View query.
   d. A view can be queried as if it is a table.
   e. Uses for views
   f. Updating views

3. Triggers
   a. A trigger is a stored program that is attached to a table or view.
   b. Type of triggers
   c. Uses for triggers
   d. Writing a trigger

4. Stored Procedures
   a. A stored procedure is a program that performs some common action on database data and is stored in the database.
b. Advantages of stored procedures
c. How to write a stored procedure
d. Differences between triggers and stored procedures

5. Ethical issues and responsibilities in records management

6. Database security
   a. Create users
   b. Grant/revoke permissions
   c. Changing passwords
   d. General security guidelines

7. SQL queries (while this topic was mostly covered before the 6 week exam, you need to know how to write an SQL query to answer a question about data in the database)