**SUSSEX COUNTY COMMUNITY COLLEGE**

**Master College Syllabus**

| COMS218 | DATABASE MANAGEMENT SYSTEMS | CLASSIFICATION |
|---|---|---|
| COURSE # | COURSE TITLE | CLASSIFICATION |

| 3 | 2 | 2 |
|---|---|---|
| CREDITS | CLASS HOURS | LAB HOURS |

**RECOMMENDED TEXTS:**

| | |
|---|---|
| Title: | A Guide to MySQL |
| Author: | Philip J. Pratt & Mary Z. Last |
| Publisher: | Cengage Learning |
| ISBN: | 13-978-1-4188-3635-4 |

| | |
|---|---|
| Title: | Concepts of Database Management |
| Author: | Pratt/Adamski |
| Publisher: | Cengage Learning |
| Edition: | 7th |
| ISBN: | 13-978-1-111-97022-2 |

**CATALOG DESCRIPTION**

This course presents the concepts of database systems and data models. Topics include: introductory to advanced design concepts, implementation, SQL, integrity, management and performance, web technologies, administration and security.

Lab Fee Required.

**PREREQUISITE:**  COMS120 or COMS113 or COMS114 or COMS142

**TOPICS TO BE INCLUDED**
1. History of Databases
2. Design and implementation of a relational database
3. Review of Structured Query Language (SQL)
4. Data Models
5. Data Normalization
6. Database security issues/concerns
7. Practical experience of creating a relational database project as a member of a design team.

**COURSE COMPETENCIES/LEARNING OUTCOMES**

In a manner deemed appropriate by the instructor and approved by the department, students will be able to:
1. Students will be able to identify the overall characteristics of data file processing, database processing and common database software packages.
2. Students will be able to use several "relational" type data-base management systems.
3. To create a relational database project as a member of a design team.

COMS218
Rev. 10/2013 LO  (Farley)
Rev. nc