### College of San Mateo

**Course Outline**

- **Department:** CIS  
  **Number:** 489

- **Course Title:** Computer Forensics  
  **Units:** 3

- **Hours/Week:** Lecture: 3.0  
  **Lab:** 0.0  
  **By Arrangement:** 1.0

#### Length of Course
- ☑️ Semester-long
- ☐ Short course (Number of weeks ____)
- ☐ Open entry/Open exit

#### Grading
- ☐ Letter
- ☐ Credit/No Credit
- ☑️ Grade Option (letter or Credit/No Credit)

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1. **Prerequisite (Attach Enrollment Limitation Validation Form.)**
   - CIS 151 or equivalent

2. **Corequisite (Attach Enrollment Limitation Validation Form.)**
   - None

3. **Recommended Preparation (Attach Enrollment Validation Form.)**
   - Eligibility of 838/848

4. **Catalog Description (Include prerequisites/corequisites/recommended preparation.)**
   - Credit/No Credit or letter grade option. Three lecture hours per week plus one lab hour by arrangement per week. Prerequisite: CIS 151 or equivalent. Recommended preparation: eligibility for ENGL 838/848. CIS 489 provides students with a solid foundation by introducing computer forensics to those who are new to the field. The course will guide students toward becoming skilled computer forensic investigators. Prepares student to take and industry standard tests. (May be taken twice for a maximum of 6 units.)

5. **Class Schedule Description (Include prerequisites/corequisites/recommended preparation.)**
   - CIS 489 COMPUTER FORENSICS
     - Credit/No Credit or letter grade option. Three lecture hours per week plus one lab hour by arrangement per week. Prerequisite: CIS 151 or equivalent. Recommended preparation: eligibility for ENGL 838/848. The CIS 489 class will cover forensics tools, evidence collection, expert witness skills, protecting evidence and computer crime investigation techniques. Prepares student will be able to take industry standard tests. (May be taken twice for a maximum of 6 units.)
6. **Student Learning Outcomes** (Identify 1-6 expected learner outcomes using active verbs.)

   Upon successful completion of the course, the student will be able to:

   1. Participate in the computer investigation of a crime scene;
   2. Create evidence reports;
   3. Acquire data acquisition from a suspect's computer;
   4. Obtain and control digital evidence;
   5. Recover file images;
   6. Serve as an expert witness;
   7. Investigate e-mail;
   8. Use computer forensic tools to investigate digital evidence.

7. **Course Objectives** (Identify specific teaching objectives detailing course content and activities. For some courses, the course objectives will be the same as the student learning outcomes. If this is the case, please simply indicate this in this section.)

   See Student Learning Outcomes

8. **Course Content** (Brief but complete topical outline of the course that includes major subject areas [1-2 pages]. Should reflect all course objectives listed above. In addition, you may attach a sample course syllabus with a timeline.)

   See attached Topical Outline.

9. **Representative Instructional Methods** (Describe instructor-initiated teaching strategies that will assist students in meeting course objectives. Include examples of out-of-class assignments, required reading and writing assignments, and methods for teaching critical thinking skills.)

   The course may include the following instructional methods:
   - Lecture to introduce new topics;
   - Demonstration of problem-solving techniques and hardware devices;
   - Students participate in (teacher-organized) group discussions of real life scenarios;
   - Teacher invites questions and answers from students.

10. **Representative Methods of Evaluation** (Describe measurement of student progress toward course objectives. Courses with required writing component and/or problem-solving emphasis must reflect critical thinking component. If skills class, then applied skills.)

    Student contributions during class discussion
    Student contribution during group discussion and project (including peer-assessment of participation and contribution to the group effort)
    Homework assignments based on textbook material and classwork
    Bi-weekly quizzes on textbook material
    Midterm and Final exams

11. **Representative Text Materials** (With few exceptions, texts need to be current. Include publication dates.)


Prepared by: [Signature]

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Submission Date: 11/10/06

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