College of San Mateo
Course Outline

Department: CIS  Number: 490
Course Title: Computer Forensics: Network Analysis and Defense  Units: By Arrangement: 1.0
Hours/Week: Lecture: 3.0  Lab: 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)

1. Prerequisite (Attach Enrollment Limitation Validation Form.)
   CIS 489 or equivalent and CIS 151 or equivalent

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

3. Recommended Preparation (Attach Enrollment Validation Form.)
   Eligibility for ENGL 838/848.

4. Catalog Description (Include prerequisites/corequisites/recommended preparation.)
   CIS 490 Computer Forensics: Network Analysis, Defense, and Countermeasures (3.0) (Credit-No Credit or letter grade option.) Three lecture and one lab hour plus one hour by arrangement per week. Prerequisite: CIS 489 or equivalent and CIS 151 or equivalent. Recommended Preparation: eligibility for ENGL 838 or 848. Access to a computer with Internet capability is strongly recommended. Comprehensive course in Computer Forensics: Network Analysis and Defense. Includes an overview of the foundations of network security, an introduction to protocol analysis, network security risk analysis, use of risk analysis to develop a network security policies, an overview of firewalls and VPNs, using and configuring intrusion detection systems, responding to network intrusions, preventing network intrusions, and managing and improving network defense. (CSU)

5. Class Schedule Description (Include prerequisites/corequisites/recommended preparation.)
   CIS 490 COMPUTER FORENSICS: Network Analysis, Defense, and Countermeasures
   Comprehensive course in Computer Forensics: Network Analysis and Defense. Includes an overview of the foundations of network security, an introduction to protocol analysis, network security risk analysis, use of risk analysis to develop a network security policies, an overview of firewalls and VPNs, using and configuring intrusion detection systems, responding to network intrusions, preventing network intrusions, and managing and improving network defense. Plus one hour by arrangement per week. Prerequisite: CIS 489 or equivalent and CIS 151 or equivalent. Recommended Preparation: eligibility for ENGL 838 or 848. Access to
11. Representative Text Materials (With few exceptions, texts need to be current. Include publication dates.)

Bojlich, Richard, Extrusion Detection: Security Monitoring for Internal Intrusions Addison Wesley 2006,

Prepared by: [Signature]

Email address: 

Submission Date: 1/10/06