

River Valley Community College
One College Place
Claremont, NH 03743

February 2013

**ELECTRONIC MEDICAL RECORDS SYSTEMS & INFORMATION ASSURANCE
CERTIFICATION AND ACCREDITATION PROCESS**

CURRICULUM AND COURSE NUMBER:	CYBS 200R
DEPARTMENT:	Business/Computer Technology
CREDIT HOURS:	3
SEMESTER HOURS:	CLASS 2 LAB 2
PREREQUISITES/COREQUISITES:	CYBS 110R

COURSE DESCRIPTION

Cybersecurity specialists working in the Healthcare field must have a thorough knowledge of the Electronic Medical Record System (EMRS) and the Information Assurance Certification and Accreditation Process (IACAP). As medical records continue to transition into electronic forms, the Healthcare IT profession needs to be aware of how the data is used and stored by software. Additionally, the Healthcare IT professional needs to be able to assess the entire IT system and ensure that the system is hardened against attack while meeting industry accreditation and certification standards.

Course Competencies:

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

1. Identify the components of the Electronic Medical Record System (EMRS) and how they integrate into the computer network.
2. Install, patch, update and upgrade and EMRS.
3. Manage users within the EMRS.
4. Manage roles and responsibilities within the EMRS.
5. Input data into the EMRS.
6. Create reports and track anonymous patient data.
7. Provide end user support with using the EMRS.
8. Evaluate a Healthcare organization's Information Assurance Certification and Accreditation Process (IACAP) posture.
9. Implement a phased approach in conducting IACAP. To include:
 - a. Definition
 - b. Verification
 - c. Validation
 - d. Post Accreditation
10. Understand and evaluate the roles and responsibilities of a Healthcare organization in their IACAP program.
11. Provide a comprehensive IACAP report identifying security vulnerabilities and providing baseline corrective actions.

Course Outline:

1. Identify the EMRS and its role in the Healthcare IT System.
2. Determine the differences between the Commercial Off the Shelf (COTS) forms of EMRS and the Open Source EMRS products available and analyze the specific benefits of each.
3. EMRS Installation and Maintenance
4. EMRS Use and Management.
5. EMRS Reports and Data Mining.
6. Troubleshooting the EMRS and end user assistance.
7. Information Assurance Certification and Accreditation Process
8. Roles and Responsibilities of the Healthcare IT system's IACAP.
9. Conducting the IACAP.
10. IACAP Reporting

Learning/Instructional Methods:

Lectures	Discussions
<i>PowerPoint</i> Presentations	Term Papers
Lab and Reading Assignments	Course Project

Performance Evaluation:

Midterm and Final Exams	Weekly written assignments
Term Paper	Discussion participation
Quizzes	Course Project

Suggested Text(s): Please refer to syllabus

Origination date:

Revisions: