GEORGE MASON UNIVERSITY
Graduate Council NEW Certificate, Concentration, Track or Degree Program
Coordination/Approval Form

(Please complete this form and attach any related materials. Forward it as an email attachment to the Secretary of the Graduate Council. A printed copy of the form with signatures should be brought to the Graduate Council Meeting. If no coordination with other units is requires, simply indicate “None” on the form.

Title of Program: Certificate in Health Care Security & Privacy

Level (Masters/Ph.D.):

Please Indicate: ______ Program ___X__ Certificate _______ Concentration _______ Track

Description of certificate, concentration or degree program:
This Certificate enhances the skills of Directors responsible for information and physical Security at area hospitals, nursing homes, public agencies, insurance companies, and other health care agencies. The curriculum improves the effectiveness of these directors in bringing about change within their own organization and in coordinating their activities with their counterparts in public and private agencies.

Please list the contact person for this new certificate, concentration, track or program for incoming students:
Farrokh Alemi, Ph.D. falemi@gmu.edu 703 993 4226

Approval from other units:
Please list those units outside of your own who may be affected by this new program. Each of these units must approve this change prior to its being submitted to the Graduate Council for approval.

<table>
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<th>Unit: IT&amp;E</th>
<th>Head of Unit’s Signature:</th>
<th>Date:</th>
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Certificate in Health Care Security & Privacy

1. Focus of the program

The curriculum is expected to enhance the skills of Directors responsible for information and physical Security at area hospitals, nursing homes, public agencies, insurance companies, and other health care agencies. The curriculum is expected to improve the effectiveness of these directors in bringing about change within their own organization and in coordinating their activities with their counterparts in public and private agencies.

2. Number of participants projected.

The number of health care organizations with director of security is not known. We surveyed hospitals in Northern Virginia to estimate the number of people with this title. Among the 13 hospitals in our region, 100% had directors of security. Across the nation this suggests a total of 5801 directors of security working at hospitals. We estimate that across Nursing Homes and Insurance companies there are an additional 5000 directors of security.

The Table below shows the number of people and seats involved in the degree at different points in time (please note that each student is expected to take 2 courses per semester).

<table>
<thead>
<tr>
<th>New Admissions</th>
<th>Spring 2004</th>
<th>Summer 2005</th>
<th>Fall 2005</th>
<th>Spring 2006</th>
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<tbody>
<tr>
<td>Cumulative Enrollment</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>10</td>
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<tr>
<td>Course Seats</td>
<td>0</td>
<td>10</td>
<td>20</td>
<td>40</td>
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3. Program of Study

Students are expected to have:
(1) Broad health care experience (or alternatively take HSCI 678) and
(2) Knowledge of health care databases (or alternatively take HSCI 709 or INFS 601)

<table>
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<tr>
<th>HSCI 525 (3 credits)</th>
<th>Risk analysis in Health and Bioscience</th>
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<td>Students learn to assess risk at the time of increased threats and drive the information security program of healthcare organization. The course includes qualitative and quantitative risk analysis models, risk analysis life cycle as well as methods of evaluating the validity and reliability of existing indices. Students learn about existing tools for assessment of risk as well as procedures for construction of new risk indices.</td>
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<tr>
<th>HSCI 610 (3 credits)</th>
<th>Maintaining Business Continuity for Health Care</th>
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<td>Participants will consider the potential types of catastrophes, their likely impact and how the organization could continue to serve its mission and the community in the aftermath. Explores the interdependencies among various components of the healthcare delivery system, regional health services disaster planning, business record protection, patient</td>
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INFS 565  Database and Distributed Systems Security Principles  
(Prerequisites: Graduate standing; Not for ISE Department students)  
An introduction to information security concepts, including discretionary controls; data  
models, concepts, and mechanisms for database and distributed system security; basic  
cryptography and its applications; security in computer networks; intrusion detection and  
protection against hackers; firewall concepts and prevention of viruses and other rogue  
programs. The emphasis is on the need for and administration of effective security policies  
in network administration (including security, identity, and integrity models and their  
definition) as opposed to programming systems and architecting networks.

HSCI 746  Advance Seminar on Security  
Describes new methods to manage and verify identity of patients and providers working  
within an organization. Includes both issues related to identity management in electronic  
domain as well as in physical domain. Includes discussion of continuity of care, referral  
process, recruitment of patients and follow up of clinic visits in the community. Includes  
emerging topics in health care security.

HSCI 745  Health care Security Policy  
The focus of the course is on health security and privacy policy and compliance issues.  
Students will develop policies for the type of threats faced by the facilities. The legal and  
business policies for facility, personnel, travel, information and patient security will be  
discussed. Cost and benefits of increased security will be discussed.

4. Sequence of Courses

Courses can be taken in any sequence. The recommended sequence is in the order of  
course numbers.

5. Admission Policy

Students applying to the Certificate program must have a bachelor's degree and complete  
the application to the University. Two letters of recommendations are needed.  
Knowledge of health care system and design of databases is not required but students  
without this knowledge are required to take additional courses. Application is made  
through the College of Nursing and Health Science.

6. Effective Date