George Mason University  
Graduate Course Approval/Inventory Form

Please complete this form and attach a copy of the syllabus for new courses. 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. Complete the Coordinator Form on page 2, if changes in this course will affect other units.

Please indicate:  ____ NEW  ____** MODIFY  ____ DELETE

Local Unit:  ISE  
Graduate Council Approval Date:

Course Abbreviation:  ISA  
Course Number:  780

Full Course Title:  Theoretical Foundations of System Security

Abbreviated Course Title (24 characters max.): Theoret Found System Security

Credit hours: 3  
Program of Record: MS Information Security and Assurance

Repeatable for Credit?  ____ N = Cannot be repeated for credit

Activity Code (please indicate):  ____ Lecture (LEC)  ____ Lab (LAB)  ____ Recitation (RCT)  ____ Studio (STU)  ____ Internship (INT)  ____ Independent Study (IND)  ____ Seminar (SEM)

Catalog Credit Format  3 : 3 : 0  
Course Level:  GF(500-600)  ____ GA(700+)  ____

Maximum Enrollment: 40  
Prerequisites: ISA 662 and ISA 666.

Catalog Description (35 words or less)

Theoretical Foundations of System Security (3:3:0) Prerequisites: ISA662 and ISA666. Discussion of the formal theories supporting information security. The required background in logic and formal calculi, formal languages, automata, computability and complexity is provided. Topics include: decidability and complexity results for access control and safety models, delegation and release control models, formal analysis of security protocols, language-based security, models of information flow, and verification of security properties.

For MODIFIED or DELETED courses as appropriate:

Last term offered: Fall 2003  
Previous Course Abbreviation: INFS  
Previous number: 780

Description of modification:  New designation

APPROVAL SIGNATURES:

Submitted by: Francesco Parisi-Presicce  
email: fparisip@gmu.edu

Department/Program: ISE/ MS Info. Security and Assurance  
Date: October 29, 2003

College Committee:  
Date: 

Graduate Council Representative:  
Date: 

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GEORGE MASON UNIVERSITY
Course Coordination Form

Approval from other units:

Please list those units outside of your own who may be affected by this new, modified, or deleted course. Each of these units must approve this change prior to its being submitted to the Graduate Council for approval.

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Graduate Council approval: __________________________________________ Date: ____________
Graduate Council representative: ________________________________ Date: ____________
Provost Office representative: ________________________________ Date: ____________