MANAGEMENT OF SECURE INFORMATION SYSTEMS (MSEC)
MSEC 691: Enterprise Security Threats. 1 credit.
Provides a broad exposition of emerging cyber-security threats for large-scale enterprises: Denial of Service (DoS), insider attacks, remote exploitation. It covers defenses that may mitigate or curtail some aspects of these emerging security threats. Offered by Volgenau School of Engineering. May not be repeated for credit.

Recommended Prerequisite: MSEC 511.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture

MSEC 642: Enterprise Security Technologies. 2 credits.
Provides an overview of enterprise security tools used in advanced security IT departments of enterprises today. In addition to understanding the tools, their capabilities, and their gaps, students participate in hands-on laboratory exercises with enterprise security tools. Notes: 4 class sessions will be 3.5 hours long, 1 class session will be 2 hours and 20 minutes long (5 class sessions; 16 hours 20 minutes total) Offered by Volgenau School of Engineering. May not be repeated for credit.

Recommended Prerequisite: MSEC 511.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture

MSEC 650: Seminar: Enterprise Security Case Studies. 1 credit.
Provides an exposition of large enterprise security systems including operational requirements, threat model, security analysis, economic analysis, and defense posture options that expose the operational and economic trade-offs when architecting Enterprise security. Offered by Volgenau School of Engineering. May not be repeated for credit.

Recommended Prerequisite: MSEC 641.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Seminar

MSEC 696: Directed Studies Management of Secure Information Systems. 1-3 credits.
Approval by faculty member and program director required prior to registration. Studies specialized topics in business not otherwise available in the curriculum. Offered by Volgenau School of Engineering. May be repeated within the degree for a maximum 3 credits.

Recommended Prerequisite: Admission to the MSIS program or permission of the program director.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Independent Study

MSEC 697: Special Topics in Management of Secure Information Systems. 1-3 credits.
Sections established as necessary to focus on various topical issues that emerge in practice of management of secure information systems. Offered by Volgenau School of Engineering. May be repeated within the term for a maximum 6 credits.

Recommended Prerequisite: Admission to the MSIS program or permission of the program director.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture

700 Level Courses

MSEC 710: Global Residency. 1-4 credits.
Students spend a week in an international residency. Emphasis is on how other nations deal with management of secure information system, the management of those systems, and related public policy issues. Corporate site visits are combined with presentations by professors from universities outside the United States and relevant practitioners. Students are required to write a paper summarizing their observations and attend pre-residency preparatory sessions. Offered by Volgenau School of Engineering. May be repeated within the degree for a maximum 4 credits. Equivalent to TECM 757.

Recommended Prerequisite: Admission to Executive MS in Management of Secure Information Systems.

Registration Restrictions:
Enrollment limited to Graduate or Non-Degree level students.

Enrollment limited to students in the College of Science, Schar School of Policy and Gov or Volgenau School of Engineering colleges.

Schedule Type: Lecture
MSEC 720: Capstone Project in Management of Secure Information Systems.
1-3 credits.
Teams undertake a strategic evaluation and plan for the management of secure information systems. They develop plans that include technical, organizational, and policy aspects. A report is produced and presented to the entire cohort for discussion. Offered by Volgenau School of Engineering. May be repeated within the degree for a maximum 3 credits. Equivalent to TECM 737.

Recommended Prerequisite: Admission to Executive MS in Management of Secure Information Systems.

Registration Restrictions:
Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Seminar