

Dual Degree: M.S. Cybersecurity and M.S. Management Information Systems

Plan Description

The Howard R. Hughes College of Engineering and the Lee School of Business MIS department, offer a Master of Science – Cybersecurity and Master of Science – Management Information Systems (MS CSEC / MS MIS) dual degree program. It is designed for students who seek careers and leadership opportunities in technology-related fields. The program provides students with the skills, knowledge, and tools needed to become visionary and creative leaders in information technology or cybersecurity.

The program includes 48-credits and the student will receive both, an MS CSEC and an MS MIS degree. The MS MIS degree (24 credits) helps students develop critical skills in information technology systems analysis and design. The MS CSEC degree (24 credits) helps students acquire knowledge specific to the cybersecurity field. CSEC courses are accepted as hours of elective towards the MS MIS degree and MIS courses are accepted as hours of elective towards the CSEC degree. This program will likely take at least three years (six semesters) to complete.

Plan Admission Requirements

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

The admission requirements for the dual degree are the same as those stated under the MS MIS and MS CSEC programs.

See the Application Process section under the MS MIS and the MS CSEC programs. Applications will be reviewed by representatives of the Howard R. Hughes College of Engineering and the Lee Business School in an independent process within each college. Applicants must be admitted to both schools to qualify for the dual degree program for that term. If denied by one program, the applicant will have the option of proceeding with a single degree program with departmental approval.

Students are accepted into a degree program as described in the Graduate Catalog.

Course Requirements

Total Credits Required: 48

Total Credits Required for the M.S. Cybersecurity: 24

M.S. Cybersecurity Required Courses- Credits 21

Complete 21 credits by completing all the courses below:

CSEC 700 Security Operations	3
CSEC 701 Secure Communication Protocols	3
CSEC 702 Security Data Analytics	3
CSEC 703 Cyber Physical Systems Security	3
CSEC 704 Human Factors in Cybersecurity	3
CSEC 705 Enterprise Security Administration	3
[After] CSEC 706	

M.S. Cybersecurity Culminating Experience - Credits: 3

CSEC 790 Cybersecurity Capstone	3
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Total Credits Required for the M.S. Management Information Systems: 24

M.S. Management Information Systems Required Courses - Credits: 15

Complete 15 credits by completing all the courses below:

MIS 740 Software Concepts	3
MIS 746 Information Systems Project Management	3
MIS 760* Data Communications and Systems	3
MIS 762 Systems Analysis, Modeling and Design	3
MIS 766 Data Management	3

M.S. Management Information Systems Elective Courses - Credits: 6

Complete six credits of MS MIS courses, or other approved by the Director of the MS MIS program.

M.S. Management Information Systems Culminating Experience - Credits: 3

Complete the following course in the last semester of your MS MIS program.

MIS 781 Client Project	3
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Degree Requirements

Completion of a minimum of 24 credits of MS CSEC courses and a minimum of 24 credits of MS MIS courses.

A grade point average of at least 3.00 for course work required for the degree.

No grade lower than C is acceptable.

With approval of the MS MIS program graduate coordinator, required MIS courses may be substituted with elective courses to avoid duplication of a student's previous course work and to address the needs of the student's specific career choice.

Students with unsatisfactory progress toward the degree requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses for the degree will be put on probation for one semester. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in departure from the program. A student with two grades of C or lower will be dropped from the program.

Graduation Requirements

Students cannot graduate from one portion of the dual degree until the requirements for both are met.

Students must apply to graduate from both programs for the same semester.

The student must submit all required forms to the Graduate College and then apply for graduation from both degrees up to two semesters prior to completing their degree requirements.

Successfully complete both culminating experiences from both programs.