V. Revised Catalog Text

Catalog Text for M.S. Cybersecurity Engineering:

The M.S. in Cybersecurity Engineering program has two options for completion

Professional Option: 27 credits course work and 6 credits of Culminating Experience with Master's Project and/or Internship (total of 33 credits)
Thesis Option: 24 credits coursework and 6 credits of Culminating Experience with Master's Thesis (total of 30 credits)

Required Core Courses

COMP 801 Integrated Computing Practice [1]	3
COMP 815 Information Security	3
COMP 835 Secure Networking Technologies	3
COMP 855 Digital Forensics	3
COMP 865 Secure Software Principles	3
COMP 885 Applied Cryptography	3

Select one policy course from the following:

CPRM 810 Foundations of Cybersecurity Policy	3
CPRM 830 Security Measures I	3
CPRM 850 Security Measures II	3
CPRM 870 Cybersecurity Risk Management	3
CPRM 880 Cybersecurity Metrics and Evaluation	3

Elective Courses [2]

Select one of the following:

Professional Option - Elective Coursework	6
Thesis Option - Elective Coursework	3

Culminating Experience

Select one of the following two options:
Professional Option: Must complete two different courses from the following list for a total of 6 credits

COMP 891 Internship Experience	3
COMP 893 Team Project Internship	3
COMP 898 Master's Project	3

Thesis Option:

COMP 899 Master's Thesis	6

[1] Students are required to enroll in COMP 801 within their first nine credits in the program.
[2] Elective courses can be in various disciplines, including computing (COMP), computer science (CS), business and administration (ADMN), analytics and data science (DATA), and more.

Catalog Text for M.S. Information Technology:

The M.S. in Information Technology program has two options for completion:

Professional Option: 27 credits course work and 6 credits of Culminating Experience with Master's Project and/or Internship (total of 33 credits)
Thesis Option: 24 credits coursework and 6 credits of Culminating Experience with Master's Thesis (total of 30 credits)

Required Core Courses

COMP 801 Integrated Computing Practice [1]	3

Data

COMP 820 Database Systems and Technologies	3
or	
COMP 821 Big Data for Data Engineers	3

Operations

COMP 835 Secure Networking Technologies	3
or	
COMP 851 System Integration and Architecture	3

Intelligent Systems

COMP 840 Machine Learning Applications and Tools	3
or	
COMP 841 Practical Artificial Intelligence	3

Development

COMP 805 Full Stack Development	3
or	
COMP 830 Software Development	3

Security

COMP 815 Information Security	3

or	
COMP 885 Applied Cryptography	3

Elective Courses [2]

Select one of the following:

Professional Option - Elective Coursework	9
Thesis Option - Elective Coursework	6

Culminating Experience

Select one of the following two options:

Professional Option: Must complete two different courses from the following list for a total of 6 credits

COMP 891 Internship Experience	3
COMP 893 Team Project Internship	3
COMP 898 Master's Project	3

Thesis Option:

COMP 899 Master's Thesis	6

[1] Students are required to enroll in COMP 801 within their first nine credits in the program.

[2] Elective courses can be in various disciplines, including computing (COMP), computer science (CS), business and administration (ADMN), analytics and data science (DATA), and more.