Template comparison of the general/specialization

MS in SE	MS in SE – Cybersecurity Specialization
Required Coursework (9 credits) • SER 501 Advanced Data Structures and Algorithm Analysis (3) • SER 502 Emerging Language and Programming Paradigms (3) • SER 515 Foundations of Software Engineering (3)	Required Coursework (9 credits) • SER 501 Advanced Data Structures and Algorithm Analysis (3) • SER 502 Emerging Language and Programming Paradigms (3) • SER 515 Foundations of Software Engineering (3)
• Two courses (6 credits) • Two courses (6 credits) from the following list: SER516, SER574, CSE563, CSE564, CSE565, or CSE566.	Software Engineering Elective Courses (6 credits) • Two courses (6 credits) from the following list: SER516, SER574, CSE563, CSE564, CSE565, or CSE566.
Culminating Experience Options (3-6 credits) Capstone: SER 517 Software Factory I (3 credits) Thesis: SER 599 Thesis (6 credits) over 2 semesters	Culminating Experience Options (3-6 credits) • Capstone: SER 517 Software Factory I (3 credits) • Thesis: SER 599 Thesis (6 credits) over 2 semesters
Free Elective Courses (9-12 credits), depending on the culminating experience) • Maximum of 3 credits of SER4XX-level coursework. • Maximum of 3 credits of CSE 500-level coursework, not including the CSE software engineering courses CSE563, CSE564, CSE565,	Cybersecurity Emphasis (9 credits): CSE 543 Required Choose 2 courses from the following: CSE 539, 545, 548, or Cybersecurity-related 591 such as "Computer Security: Techniques and Tactics" Free Elective Courses (0 -3 credits), if choosing
and CSE566. • The remaining elective credits must be drawn from the SER5xx elective courses offered from the catalog, or by taking additional software engineering elective courses beyond the credits required above.	Software Factory as culminating experience) • Must be drawn from the SER5XX/4XX elective courses offered from the catalog, or by taking additional software engineering elective course(s) beyond the credits required above. • Maximum of 3 credits of SER4XX-level coursework

Cyber Security Courses:

CSE 543 Information Assurance and Security (Fall & Spring)

CSE 539 Applied Cryptography (Spring)

CSE 545 Software Security (Fall & Spring)

CSE 548 Adv Computer Network Security (Spring)

CSE 591 Current Topics in Cybersecurity (Fall)