

CYBERSECURITY B.S./M.S. ELECTIVES

Code	Title	Credit Hours
------	-------	--------------

B.S. Approved CYBS Major Electives

Below is a sample of approved Major Electives. Students may choose any upper-division course offering within the Polytechnic Institute as Major Electives where the student meets the course prerequisite requirements.

SDI 3001	Polytechnic Colloquia I	1
SDI 4001	Polytechnic Colloquia II	1

The completion of three credit hours from a combination of SDI 3001 and SDI 4001 for a total of 3 credit hours counts as one CYBS Major Elective.

CYBS 3223	Applied Statistics for Computing	3
CYBS 4103	Developing Secure Software ¹	3
CYBS 4133	Ethical Hacking and Penetration Testing ¹	3
CYBS 4323	IoT Security and Privacy ¹	3
CYBS 4583	Machine Learning for Cybersecurity ¹	3
CYBS 4883	Cryptography Fundamentals ¹	3

¹ Slash listed 4000/5000 courses cannot be repeated and may overlap with course options in the MS program.

Code	Title	Credit Hours
------	-------	--------------

M.S. Approved Elective List

AAI 5203	Advanced Database Systems	3
AAI 5333	Applications of Deep Learning	3
CYBS 5583	Machine Learning for Cybersecurity	3
CYBS 5883	Cryptography Fundamentals	3
SDI 5103	Software Project Management	3
SDI 5113	Real Time Systems	3
SDI 5123	Software Testing and Quality Assurance	3
SDI 5233	Process Automation	3
SDI 5313	Data Analytics	3

Students may choose any 5000-level course offered by all departments in the Polytechnic Institute with departmental permission. Courses may not be repeated if the student has taken the same 4000-level slashlisted course.

M.S. Approved Open Electives

Maximum of 6 hours of Open Electives may be chosen

ENT 5122	Entrepreneurship for Science and Technology	2
HSTM 5550	Topics In The History Of Science	1-3
HSTM 5533	Advanced Studies In The History Of Modern Science	3
ODYN 5133	Teams and Motivation	3
ODYN 5253	Organizational Behavior, Change, and Development	3
ODYN 5323	The Psychology and Practice of Project Management	3

ODYN 5343	Organizational Communication	3
ODYN 5513	Knowledge Management in Project-Driven Organizations	3
CYBS 5113	Introduction to Cybersecurity Leadership	3
CYBS 5213	Behavioral Cybersecurity	3
CYBS 5233	Cybersecurity Ethics, Policy, and Law	3
CYBS 5303	Insider Threat and Risk Management	3
CYBS 5443	Cyber Threat and Intelligence	3
CYBS 5253	Cybercrime and Cybersecurity	3
CYBS 5383	Trust in Artificial Intelligence	3