

# APPLIED ARTIFICIAL INTELLIGENCE B.S./M.S. ELECTIVES

Code	Title	Credit Hours
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## B.S. Approved AAI 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 AI Major Elective.

AAI 3113	Data Visualization	3
AAI 4103	Natural Language Processing <sup>1</sup>	3
AAI 4203	Advanced Database Systems <sup>1</sup>	3
CYBS 3213	Foundations of Cybersecurity	3
ENGR 3401	Engineering Economics	1
SDI 4123	Software Testing and Quality Assurance <sup>1</sup>	3

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

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## M.S. Elective List

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.

AAI 5113	Computer Vision and Image Recognition	3
AAI 5203	Advanced Database Systems	3
CYBS 5103	Developing Secure Software	3
SDI 5113	Real Time Systems	3
SDI 5133	Algorithms II	3
SDI 5233	Process Automation	3
SDI 5313	Data Analytics	3

## M.S. Open Electives

Maximum of 6 hours of Open Electives may be chosen

CYBS 5583	Machine Learning for Cybersecurity	3
C S 5483	Network Science	3
DSA 5203	Time Series Analysis	3
DSA 5503	Healthcare Analytics	3
DSA 5403	Bayesian Statistics	3
ENT 5122	Entrepreneurship for Science and Technology	2
MATH 5163	Partial Differential Equations	3
ODYN 5323	The Psychology and Practice of Project Management	3