

SEQUENCING FOR STANDARD AND ADVANCED STUDY

Consult this document when planning your courses each semester to ensure you complete your degree requirements within the expected time. Note that course options are subject to change.

STANDARD STUDY OPTION: COURSE SEQUENCE		
FALL 1 39 units	12 units	<i>Information Security Core:</i> 14-741: Introduction to Information Security OR <i>Networking Core:</i> 14-740: Fundamentals of Telecommunication Networks
	12 units	<i>AI Core:</i> 14-763: Systems and Toolchains for AI Engineering
	12 units	<i>AI Core:</i> 14-757: Introduction to Machine Learning with Adversaries in Mind OR 18-661: Introduction to Machine Learning for Engineers OR 24-787: Machine Learning and Artificial Intelligence for Engineers
	3 units	14-601: Academic & Professional Development
SPRING 1 36–42 units	12 units	<i>Information Security Core:</i> 14-741: Introduction to Information Security OR <i>Networking Core:</i> 14-740: Fundamentals of Telecommunication Networks OR 14-760: Advanced Real-World Data Networks (Spring)
	12 units	<i>AI Core:</i> 18-786 or 24-788: Introduction to Deep Learning for Engineers
	6 units	<i>Business Core:</i> 14-789: AI in Business Modeling
	6–12 units	<i>MSAIE-IS Additional Security Core</i> OR Elective*
FALL 2 42–48 units	12 units	<i>AI Core:</i> 24-784 Trustworthy and Ethical AI Engineering
	12 units	<i>Information Security Core:</i> 14-795: AI Applications in Information Security
	6–12 units	<i>MSAIE-IS Additional Security Core</i> OR Elective*
	12–18 units	Elective*
TOTAL	123 UNITS	

*Electives: fulfilled by courses in the INI, ECE, SCS, EPP, ETC or III, and/or approved courses in the Heinz College or Tepper School. Some exceptions apply.

ADVANCED STUDY OPTION: COURSE SEQUENCE		
FALL 1 39 units	12 units	<i>Information Security Core:</i> 14-741: Introduction to Information Security OR <i>Networking Core:</i> 14-740: Fundamentals of Telecommunication Networks
	12 units	<i>AI Core:</i> 14-763: Systems and Toolchains for AI Engineering
	12 units	<i>AI Core:</i> • 14-757: Introduction to Machine Learning with Adversaries in Mind • OR 18-661: Introduction to Machine Learning for Engineers • OR 24-787: Machine Learning and Artificial Intelligence for Engineers
	3 units	14-601: Academic & Professional Development
SPRING 1 36 units	12 units	<i>Information Security Core:</i> 14-741: Introduction to Information Security OR <i>Networking Core:</i> • 14-740: Fundamentals of Telecommunication Networks • OR 14-760: Advanced Real-World Data Networks (Spring)
	12 units	<i>AI Core:</i> 18-786 or 24-788: Introduction to Deep Learning for Engineers
	6 units	<i>Business Core:</i> 14-789: AI in Business Modeling
	6 units	Elective*
FALL 2 48 units	12 units	<i>AI Core:</i> 24-784 Trustworthy and Ethical AI Engineering
	12 units	<i>Information Security Core:</i> 14-795: AI Applications in Information Security
	12 units	MSAIE-IS Additional Security Core OR Elective*
	12 units	Advanced Studies
SPRING 2 36 units	24 units	Advanced Studies
	12 units	Elective*

*Electives: fulfilled by courses in the INI, ECE, SCS, EPP, ETC or III, and/or approved courses in the Heinz College or Tepper School. Some exceptions apply.

TOTAL	159 UNITS	
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