# Penn State College of Information Sciences and Technology

# MPS Audit CheckInformation Sciences – Cybersecurity and Information Assurance Option (INSCI/CIA) - 33 credits total

Name:

**Strongly recommend that students complete IST 815 and IST 554 first.**

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| **MPS Core Course Requirements:** | **Total: 9 credits** | **Credits Completed/In Progress** |
| IST 816 Web Fundamentals | 3 credits (FA/SP/SU) |  |
| IST 554 Network Management and Security | 3 credits (FA/SP/SU) |  |
| IST 820 Cybersecurity Analytics | 3 credits (FA/SP/SU) |  |

***Note: IST 820 replaces IST 852, if you previously took IST 852 it will fulfill this course requirement.***

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| **MPS Capstone Project Requirements**The two IST 594 courses must be completed in two separate, consecutive semesters with the same instructor for a total of 3 credits. | **Total: 3 credits** | **Credits Completed/In Progress** |
| IST 594 Capstone Experience: Research Project (schedule first, next to last semester)*Note: Section numbers are in the 200-series* | 2 credits (FA/SP/SU) |  |
| IST 594 Capstone Experience: Research Project (schedule second, last semester)Note: Section numbers are in the 100-series | 1 credit (FA/SP/SU) |  |
| OR |
| IST 894 Capstone Course: Cyber Event Simulation and Analysis | 3 Credits(FA/SP/SU) |  |

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| **MPS Prescribed Course Requirements: Recommended to take after completing 12 credits** | **Total: 12 credits** | **Credits Completed/In Progress** |
| IST 815 Foundations of Information Security and Assurance | 3 credits (FA/SP/SU) |  |
| IST 456 Information Security Management\* | 3 credits (FA/SP/SU) |  |
| IST 555 Intelligent Agents and Distributed Decision Making | 3 credits (SP) |  |
| IST 402 Emerging Issues and Tech: Cloud Computing | 3 credits (FA/SP/SU) |  |

***NOTE: IST 402 replaces IST 885, if you previously took IST 885 it will fulfill this course requirement.***

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| **MPS Elective Course Requirements** | **Total: 9 credits ONLY** | **Credits Completed/In Progress** |
| IST 451 Network Security\*  | 3 credits (FA/SP/SU) |  |
| IST 454 Computer and Cyber Forensics\* | 3 credits (FA/SP/SU) |  |
| IST 564 Crisis, Disaster, and Risk Management | 3 credits (FA/SP/SU) |  |
| IST 868 Topics in Visual Analytics for Security Intelligence (PR= IST 554 or IST 816) | 3 credits (SP) |  |
| INSC 561 Web Security & Privacy (PR=IST 815) | 3 credits (FA/SP/SU) |  |
| EA 871 Enterprise Architecture Foundations I | 3 credits (FA/SP/SU) |  |
| EA 873 Enterprise Modeling (PR=EA 871) | 3 credits (FA/SP/SU) |  |
| EA 874 Enterprise Information Technology Architecture (PR=EA 871) | 3 credits (FA/SP/SU) |  |
| EA 876 Architecting Enterprise Security and Risk Analysis (PR=EA 871) | 3 credits (FA/SP/SU) |  |

**Total Credits**

**Note:** (PR) = Prerequisite for that course; Typical Course Offerings (***subject to change***): (FA) = Fall; (SP) = Spring; (SU) = Summer
Check course schedule for semester offerings

\*400-level courses will include both undergraduate and graduate students

Please visit <http://ist.psu.edu/online-grad> for program resources and current audit sheets.