

# MPS Audit CheckCybersecurity Analytics and Operations (CYMPS) - 33 credits total

**Effective Fall 2020 – Fall 2021**

Name:

**Complete these core courses in the following sequence: IST 815 first, then IST 554, then IST 820**

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| **MPS Core Course Requirements:**  | **Total: 21 credits** | **Credits Completed/In Progress** |
| IST 815 Foundations of Information Security and Assurance | 3 credits (FA/SP) |  |
| IST 554 Network Management and Security | 3 credits (FA/SP/SU) |  |
| INSC 561 Web Security & Privacy (PR=IST 815) | 3 credits (FA/SP/SU)  |  |
| IST 451 Network Security\* | 3 credits (FA/SP/SU) |  |
| IST 456 Information Security Management\* | 3 credits (FA/SP/SU) |  |
| IST 543 Foundations of Software Security | 3 credits (FA/SP/SU) |  |
| IST 820 Cybersecurity Analytics | 3 credits (FA/SP/SU) |  |

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| **MPS Electives Course Requirements: Recommended to take after completing 12 credits** | **Total: 9 credits ONLY** | **Credits Completed/In Progress** |
| IST 402 Emerging Issues and Tech: Cloud Computing\* | 3 credits (FA/SP/SU) |  |
| IST 454 Computer and Cyber Forensics\* | 3 credits (FA/SP/SU) |  |
| IST 555 Intelligent Agents and Distributed Decision Making | 3 credits (SP) |  |
| IST 564 Crisis, Disaster, and Risk Management | 3 credits (FA/SP/SU) |  |
| IST 597 Special Topics: Threat Hunting and Offensive Cybersecurity | 3 credits (SP) |  |
| IST 805 Cybersecurity Forensics and Management | 3 credits (FA) |  |
| IST 868 Topics in Visual Analytics for Security Intelligence (PR=IST 554 or IST 816) | 3 credits (SP)  |  |
| 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 Info. Tech. Architecture (PR=EA 871) | 3 credits (FA/SP/SU) |  |
| EA 876 Architecting Enterprise Security and Risk Analysis (PR=EA 871) | 3 credits (FA/SP)  |  |

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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) |  |

**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.