

**MPS Audit Check**

**Cybersecurity Analytics and Operations (CYMPS)**

**Effective Fall 2020 – Fall 2021**

**33 credits total**

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| Name: |

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| MPS Core Course Requirements:  Recommend taking IST 815 in your first semester, all other courses can be taken in any order | Total  21 credits | Semester(s)  Offered\* | 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/SU |  |
| INSC 561 Web Security & Privacy (PR=IST 815) | 3 credits | FA/SP/SU |  |
| CYBER 451 Network Security\*\* | 3 credits | FA/SP/SU |  |
| CYBER 456 Information Security Management\*\* | 3 credits | FA/SP/SU |  |
| IST 543 Foundations of Software Security | 3 credits | FA/SU |  |
| IST 820 Cybersecurity Analytics | 3 credits | FA/SU |  |
| MPS Elective Course Requirements:  Select three courses from the list below | **Total**  **9**  **credits** | **Semester(s)**  **Offered** | Credits Completed/In Progress |
| CYBER 454 Computer and Cyber Forensics\*\* | 3 credits | FA/SP/SU |  |
| ETI 420 Fundamentals of Systems and Enterprise Integration\*\* | 3 credits | FA/SP/SU |  |
| ETI 421 Advanced Enterprise Integration: Technologies and Applications\* | 3 credits | FA/SP/SU |  |
| IST 402 Emerging Issues and Tech: Any topic\* | 3 credits | FA/SP/SU |  |
| IST 432 Legal and Regulatory Environment of Information Sciences\* | 3 credits | FA/SP/SU |  |
| IST 555 Intelligent Agents and Distributed Decision Making | 3 credits | SP-every other |  |
| IST 564 Crisis, Disaster, and Risk Management | 3 credits | FA/SU |  |
| IST 597 Special Topics: *course topics vary* | 3 credits | varies |  |
| IST 805 Cybersecurity Forensics and Management | 3 credits | SP |  |
| IST 821 Cloud Cybersecurity | 3 credits | FA |  |
| IST 866 Threat Hunting and Offensive Cybersecurity | 3 credits | SP |  |
| IST 868 Applied Visual Analytics | 3 credits | SP-every other |  |
| EA 871 Enterprise Architecture Foundations I | 3 credits | FA/SP |  |
| EA 873 Enterprise Modeling (PR=EA 871) | 3 credits | SP/SU |  |
| EA 874 Enterprise Info. Tech. Architecture (PR=EA 871) | 3 credits | FA/SU |  |
|  | 3 credits |  |  |
| MPS Capstone Requirement:  To be taken in your last semester | **Total**  **3**  **credits** | **Semester(s)**  **Offered\*** | Credits Completed/In Progress |
| IST 594 Capstone Experience: Research Project | 3 credits | FA/SP/SU |  |
| OR | | | |
| IST 894 Capstone Course: Cyber Event Simulation and Analysis | 3 credits | FA/SP/SU |  |
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|  |  |  | **Total Credits** |
|  |  |  |  |

(PR) = Prerequisite for that course; Typical Course Offerings (***subject to change***): (FA) = Fall; (SP) = Spring; (SU) = Summer   
\*\*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.