**MASTER OF SCIENCE IN CYBERSECURITY**

**(MSCSEC) COURSEWORK PLANNING WORKSHEET**

**July 2021**

**This sheet is for planning purposes.** Please email this form to the ECE Graduate Affairs Office for approval.

**MSCSEC Non-Thesis (Only)**

**with Cyber-Physical Systems Track**

**Core Courses: Group I**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course #** | **Course Name** | **Hrs** | **Grade** | **Term/Yr** |
| CS 6035 | Introduction to Information Security | 3 |  |  |
| CS/MGT/  PUBP 6725 | Information Security Policies | 3 |  |  |
| CS/ECE/  PUBP 6727 | Information Security Practicum | 5 |  |  |
| CS/PUBP 6XXX | Flexible core course – 3-hour course must be different from ECE’s track – (**To meet this requirement, students must complete a required course from a specialization track that is different from the one in which they are enrolled).** | 3 |  |  |
|  |  |  |  |  |
|  | **Total Core Course Hours** | **14** |  |  |

**Cyber-Physical Systems Track:**  **Group II**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course #** | **Course Name** | **Hrs** | **Grade** | **Term/Yr** |
| ECE 6320 | Power Systems Control and Operation | 3 |  |  |
| ECE 6374 | Cyber-Physical Security in Electric Energy Systems (same as Introduction to Cyber-Physical Electric Energy Systems) | 3 |  |  |
| ECE 6770 | Introduction to Cyber-Physical Systems Security  OR Hardware Oriented Security and Trust | 3 |  |  |
| ECE 8803 CPS | Cyber Physical Design and Analysis | 3 |  |  |
|  |  |  |  |  |
|  | **Total ECE Track Hours** | **12** |  |  |

**Electives: Select Two Courses from List Below Group III**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course #** | **Course Name** | **Hrs** | **Grade** | **Term/Yr** |
| ECE 6550 | Linear Systems and Controls | 3 |  |  |
| ECE 6607 | Computer Communication Networks | 3 |  |  |
| ECE 6615 | Sensor Networks | 3 |  |  |
| ECE 6102 | Dependable Distributed Systems | 3 |  |  |
| ECE 88x3 | Advanced Computer Security | 3 |  |  |
| ECE 6323 | Power System Protection | 3 |  |  |
| ECE 88x3 | Smart Electricity Grids | 3 |  |  |
| ECE 88x3 | Advanced Topics in Malware Analysis (same as Software Vulnerabilities and Security) | 3 |  |  |
| ECE 88x3 | Side-Channels and Their Role in Cybersecurity | 3 |  |  |
|  | **Total Elective Hours** | **6** |  |  |

**TOTAL DEGREE REQUIREMENTS 32**