CYBERSECURITY MAJOR
Program Tracking Sheet
Effective for students entering AY 2026-2027

Name:	Class Year:
Advisor:	2nd Major:

NOTES: Minimum total academic credit = 15 units
Residency Req.: Min. of 8 units must be completed at WPI

HUMANITIES AND ARTS (6/3 units)
All 5 HUA courses must be completed before beginning the Inquiry Seminar or Practicum.
Only 1 AP/IB course can be used towards HUA requirements.

Depth Component
Students must complete at least three thematically-related courses prior to the culminating Inquiry Seminar or Practicum in the same thematic area. At least one of the three courses should be at the 2000-level or above.

	Course	Term	Grade	Units
1				1/3
2				1/3
3				1/3

Breadth Component
Students must take at least one course outside the grouping in which they complete their depth component. To identify breadth, courses are grouped in the following manner.
i. art/art history, drama/theatre, and music (AR, TH, MU);
ii. modern languages (AB, CN, ISE, GN, SP);
iii. literature and writing rhetoric (EN, WR);
iv. history, humanities, and international and global studies (HI, HU, INTL);
v. philosophy and religion (PY, RE).
Exception: May take all six courses in a modern language.

4				1/3
Humanities Elective (any humanities course)				
5				1/3
Inquiry Seminar or Practicum				
6	HU 3900 or HU 3910			1/3

WELLNESS AND PHYSICAL EDUCATION (4 WPE classes = 1/3 unit)

7				1/12
				1/12
				1/12
				1/12

SOCIAL SCIENCE (2/3 unit) ECON, ENV, GOV, PSY, SD, SOC, SS, STS, DEV and ID2050

8				1/3
9	ID 2050 or other Social Science			1/3

THE INTERACTIVE QUALIFYING PROJECT (3/3 unit)

10	*IQP*			1/3
11	*IQP*			1/3
12	*IQP*			1/3

FREE ELECTIVES (3/3 unit)

13				1/3
14				1/3
15				1/3

MATHEMATICS (6/3 units)
Must include 1/3 unit of probability and 1/3 unit of linear algebra.

16				1/3
17				1/3
18				1/3
19				1/3
20	MA 2621 or 2631			1/3
21	MA 2071			1/3

BASIC SCIENCE AND/OR ENGINEERING SCIENCE (5/3 Units)

BASIC SCIENCE (3/3 units)
Courses from BB, CH, GE, or PH, with 2/3 coming from the same discipline.

22				1/3
23				1/3
24				1/3

ADDITIONAL BASIC AND/OR ENGINEERING SCIENCE (2/3 units)
Courses from BB, BME (excluding BME 1004), CH, CHE, ES, GE, ME, PH, or RBE (excluding RBE 3100).

25				1/3
26				1/3

FOUNDATION CURRICULUM (10/3 units) (Note 1, 3) (Table A, B, C)

COMPUTER SCIENCE FOUNDATION (5/3 units) (Table A)

27				1/3
28				1/3
29				1/3
30				1/3
31				1/3

ELECTRICAL AND COMPUTER ENGINEERING FOUNDATION (5/3 units) (Table B)

32				1/3
33				1/3
34				1/3
35				1/3
36				1/3

CYBERSECURITY CURRICULUM (9/3 units)

CYBERSECURITY CORE (3/3 units) (Note 2, 3) (Table B)

37	CS			1/3
38	ECE			1/3
39	CS or ECE			1/3

CYBERSECURITY ELECTIVES (2/3 units) (Note 2, 3) (Table C)

40	CS			1/3
41	ECE			1/3

SOCIETAL IMPACTS (1/3 unit)
Chosen from CS/SS 3043, GOV/ID 2314, GOV 2315

42				1/3

THE MAJOR QUALIFYING PROJECT (3/3 units) (Note 4)

43	*MQP*			1/3
44	*MQP*			1/3
45	*MQP*			1/3

Note 1: 5/3 units of Computer Science and 5/3 units of Electrical and Computer Engineering Foundation Courses, satisfied by courses listed in Tables A and B, or any course listed for the Cybersecurity Core or Cybersecurity Elective requirements (Tables C and D) not used to satisfy those requirements.

Note 2: Must include at least 1/3 in CS and at least 1/3 in ECE.

Note 3: Graduate-level courses, independent studies, or other relevant courses may be used to fulfill the core requirements, provided approval is obtained from the cybersecurity program director.

Note 4: The MQP must be advised by a faculty member with a formal appointment in the Cybersecurity Program and must have a clear cybersecurity focus.

TABLES

Table A – Computer Science Foundation Courses

Must complete 5/3 units from the list below.

-CS 1101/1102 - Introduction to Program Design
-CS 2102/2103 - Object Oriented Design Concepts
-CS 2303 - Systems Programming Concepts
-CS 2011 - Machine Organization & Assembly Lang
-CS 2022/MA 2201 - Discrete Math
-CS 3013 - Operating Systems
-CS 3404 - Introduction to Security
-CS 3516 - Computer Networks
-CS 4241 – Webware: Computational Technology for Network Information Systems
-CS 4513 - Distributed Computing Systems
-CS 4515 - Computer Architecture
-CS 4516 - Advanced Computer Networks
-Any CS course listed for the Cybersecurity Core or Cybersecurity Elective requirements (Tables C and D) not used to satisfy those requirements

Graduate-level courses, independent studies, or other relevant courses may be used to fulfill the core requirements, provided approval is obtained from the cybersecurity program director.

Table B – Electrical and Computer Engineering Foundation Courses

Must complete 5/3 units from the list below.

-ECE 2010 - Introduction to Electrical and Computer Engineering
-ECE 2029 - Introduction to Digital Circuit Design
-ECE 2039 - Computational Engineering
-ECE 2049 - Embedded Computing in Engineering Design
-ECE 3829 - Advanced Digital Systems Design
-ECE 3849 - Real-time Embedded Systems
-ECE 4801 - Computer Organization & Design
-Any ECE course listed for the Cybersecurity Core or Cybersecurity Elective requirements (Tables C and D) not used to satisfy those requirements

Graduate-level courses, independent studies, or other relevant courses may be used to fulfill the core requirements, provided approval is obtained from the cybersecurity program director.

Table C – Cybersecurity Core Courses

Must complete 3/3 units from:

-CS 4401 - Software Security
-CS 4404 –Network Security
-CS 4801/ECE 4802 – Introduction to Cryptography and Communication Security
-ECE 4576 – Introduction to Hardware Security
-ECE 576 - Applied Cryptography and Physical Attacks
-ECE 579 - Physical Security of Microelectronic Systems

Must include at least 1/3 in CS and at least 1/3 in ECE.

Graduate-level courses, independent studies, or other relevant courses may be used to fulfill the core requirements, provided approval is obtained from the cybersecurity program director.

Table D – Cybersecurity Elective Courses

Must complete 2/3 units from:

-CS 4405 - Digital Forensics
-CS 4403 - Web Application Security
-CS 4402 - Reverse Engineering
-ECE 4803 – Machine Learning in Cybersecurity
-Any course listed for the Cybersecurity Core requirement (Table C) not taken for that requirement

Must include 1/3 in CS and 1/3 in ECE.

Graduate-level courses, independent studies, or other relevant courses may be used to fulfill the core requirements, provided approval is obtained from the cybersecurity program director.