

DATA SCIENCE MAJOR
Program Tracking Sheet
 Effective for students entering AY 2019-2020

Name:	Class Year:
Advisor:	2 nd 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.

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
4	HU 3900 or HU 3910			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, EN/TH, MU);
- ii. foreign languages (AB, CN, EN, GN, SP);
- iii. literature and writing rhetoric (EN, WR, RH);
- iv. history and international studies (HI, HU, INTL);
- v. philosophy and religion (PY, RE).

Exception: May take all six courses in a foreign language

5				1/3
---	--	--	--	-----

Humanities Elective

6				1/3
---	--	--	--	-----

PHYSICAL EDUCATION (4 PE 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 and ID2050

8				1/3
9				1/3

THE INTERACTIVE QUALIFYING PROJECT (3/3 unit)

10				1/3
11				1/3
12				1/3

FREE ELECTIVES (3/3 unit)

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

DATA SCIENCE CORE (3/3 unit)

16	DS 1010			1/3
17	DS 2010			1/3
18	DS 3010			1/3

DISCIPLINARY FOUNDATION COURSES (10/3 units)

COMPUTER SCIENCE (3/3 unit) (Note 1)

19	CS 2223			1/3
20				1/3
21				1/3

MATHEMATICAL SCIENCES (5/3 unit) (Note 2)

22	MA 2611			1/3
23	MA 2612			1/3
24	MA 2071 or 2072			1/3
25				1/3
26				1/3

BUSINESS COURSES (2/3 unit) (Note 3)

27	BUS 2080			1/3
28				1/3

DISCIPLINARY ELECTIVE COURSES (11/3 units) (Note 4)

29				1/3
30				1/3
31				1/3
32				1/3
33				1/3
34				1/3
35				1/3
36				1/3
37				1/3
38				1/3
39				1/3

DATA PRIVACY AND ETHICS (1/3 unit)

40				1/3
----	--	--	--	-----

SCIENCE (2/3 unit)

41				1/3
42				1/3

MQP (3/3 unit)

43				1/3
44				1/3
45				1/3

Note 1: Two of the courses must be chosen from CS 1004, CS 1101, CS 1102, CS 2102, CS 2103, CS 2119, or from CS electives listed in the course catalog.

Note 2: Two of the courses must be chosen from MA 1020, MA 1021, MA 1022, MA 1120, or from MA electives listed in the catalog.

Note 3: One of the courses must be chosen from BUS 1010, ETR1100, BUS 3010, or ETR 3633

Note 4: Disciplinary elective courses can be found in the catalog. Electives must include at least 4/3 at the 4000 level or higher and at least one course in each of the categories below:

- Databases (CS 3431, CS 4432, MIS 3720, DS 4433)
- Data mining/machine learning (CS 4445, CS 4342/DS 4342)
- Business modeling and prediction (MIS 4084, OIE 4420)