

(DRAFT) DS + MA DOUBLE MAJOR (BS)

AY2020 - 2021

Course Term Grade Units

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DS Core 3/3

1				1/3	DS 1010
2				1/3	DS 2010
3				1/3	DS 3010

Business Courses 3/3

4				1/3	BUS 2080
5				1/3	
6				1/3	MIS 4084, OIE 4420 [4]

Data Privacy and Ethics [1] 1/3

7				1/3	
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Mathematical Sciences [2] 18/3

8				1/3	Any MA
9				1/3	MA 2071 or 2072
10				1/3	MA 2611
11				1/3	MA 2612
12				1/3	MA 2631 (Prob)
13				1/3	Any MA 2000+
14				1/3	Any MA 2000+
15				1/3	Any MA 2000+
16				1/3	Any MA 2000+
17				1/3	Any MA 2000+
18				1/3	MA 3831
19				1/3	MA 3832
20				1/3	MA 3257 or MA 3457
21				1/3	MA 3823 or MA 3825
22				1/3	Any MA 3000+
23				1/3	Any MA 3000+
24				1/3	Any MA 4000+
25				1/3	Any MA 4000+

Mathematics (7 units)

May not include both MA 2631 and MA 2621.

At least 7/3 units must consist of MA courses at the 3000 level or above.

TRANSITION COURSES (3/3 unit)

Must include at least three of the following: MA 2073, MA 2271*, MA 2273*, MA 2431, MA 2631, or their equivalents

Computer science foundation courses must include 2/3 units of introductory computer science (with no more than 1/3 unit at the 1000 level) and 1/3 unit of algorithms.

HU&A Requirement 6/3 (Maximum 1/3 AP credit)

26				1/3	Any HU&A
27				1/3	Breadth (group not incl. focus)
28				1/3	Focus
29				1/3	Focus
30				1/3	Focus 2000+
31				1/3	Focus (Inquiry/Practicum)

Focus areas: AR, MU, EN/WR, EN/TH, HI/HU, PY/RE

Breadth groups: AR, EN/WR, EN/TH, MU, SP/GN/AB/CN, HI/HU, PY/RE

Alternative HUA Requirement: 6 courses in a single foreign language.

Social Sciences 2/3

32				1/3	Any 2/3 from: ECON, GOV, PSY, ENV, SD, SOC, SS, STS or ID
33				1/3	

Computer Science [3, 4, 5] 7/3

34				1/3	Any CS
35				1/3	CS 2223
36				1/3	Two of CS 1004, 1101, 1102, CS 2102, CS 2103, CS 2119
37				1/3	
38				1/3	Any CS
39				1/3	Any CS
40				1/3	Any CS

Math Program Related [5] 2/3

41				1/3	
42				1/3	
43				1/3	
44				1/3	

IQP 3/3

45				1/3	
46				1/3	
47				1/3	

PE 1/3

48				1/12	
				1/12	
				1/12	
				1/12	

DS + MA MQP

52				4/3	
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[1] Includes: CS 3043, IMGD 2000 or 2001, GOV / ID 2314 or GOV / ID 2315

[2] Two of the courses must be chosen from MA 1020, MA 1021, MA 1022, MA 1120, or from MA electives listed in the DS Major section of the catalog

[3] 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.

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

[5] At least 2/3 units of science must be included; the remaining courses are to be selected from science, engineering, computer science or management (except FIN 1250). Science courses may be chosen from the following disciplines: BB, CH, ES, GE, PH. CS courses may not include both CS 3043 and CS 2022.

or

DS MQP

51				3/3
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MA MQP

54				3/3
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V1.0 LH

2/18/2020