!"#\$ *Interdisciplinar Data Science*

normally permitted to substitute up to six credits of COEN elestiveward the COSC elective requirement, but must apply for a waiver from **Me**SC

COMBINED MAJORS AND MINORS IN INTERDISCIPLINARY DATA SCIENCE AND OTHER AREAS

MAJOR IN INTERDISCIPLINARY DATA SCIENCE AND MINOR IN MATHEMATICS

A student with a major interdisciplinary Data Science des to complete the math requirements for the minor in mathematics. There **are** additional credit hours of MATH cours (the read of the minor division MATH). If **a** INDS major decides to embark on a MATH minor after completi MATH 2100, substitutions for the MATH 2350 requirement may be allowed, but students must apply for a waiver from the MSSCUndergraduate Committee.

MAJOR IN INTERDISCIPLINARY DATA SCIENCE AND IN MATHEMATICS

A student majoring in bothinterdisciplinary DataScience and Mathematics must complete seventyonecredit hours of NDS and MATH courses. This total includes been additional credit hours of MATH courses in addition to the fifty-six credit hours required of the NDS major. The required courses include COSC 1010, 1020, 2100,610 and 4800, (b) two approved electives from COSC or MATH; (c) MATH 1450, 1451, 2350 (in place of MATH 2100), 2450, 3,130070, 4700, 4720, 4780 and 15 additional hours of upper division MATH courses cautlined in the Mathematics major handbook (d) INDS 4997.

MAJOR IN INTERDISCIPLINARY DATA SCIENCE AND OTHER MINOR.

Other common minors with a major **in**terdisciplinary Data Scienciesclude the Minor in Business Administration or the Minor in Entrepreneurship from the College of Business Administration, or the Minor in Digital Media from the College of Communication. A student seeking one of these minors should follow the courseiner pents listed in the Undergraduate Bulletin.

Interdisciplinary Data Science Major SAMPLE CURRICULUM

Freshman

First Term

Sem. Hrs.

Second Term

Sem. Hrs.

Interdisciplinary Data Science Major with Minor in Business Administration SAMPLE CURRICULUM

		Freshman		
<u>First Term</u>	<u>Sem. Hrs</u> .	<u>Secor</u>	<u>id Ter</u> m	<u>Sem. Hrs</u> .
COSC 1010	4	COSC	2 1020	4
	4		1001er ESSV(1 (MCC)	4
ENGL 100101 ESSV1 (MCC)	\sim			\sim $^{\circ}$
PHIL TOUT OF THEO TOUT (MC		PHIL		C) 3
	14			14
		Sophomore		
<u>First Term</u>	<u>Sem. Hrs</u> .	<u>Secor</u>	<u>id Ter</u> m	<u>Sem. Hrs</u> .
COSC 2100	3	MATH	I 3100	3
MATH 2350	3	MATH	3570 or COSC 3570	3
MATH 2450	4	MATH	l 4720 or 4740	3
CORE1929 (MCC) or elective	3	CORE	1929 (MCC) or elective	3
ECON 1001	3	DSCV	(MCC) ^{4,5}	3
	16			15
		Junior		
<u>First Term</u>	<u>Sem. Hrs</u> .	<u>Secor</u>	<u>nd Ter</u> m	<u>Sem. Hrs</u> .
COSC 4800	3	COSC	24610	3
MATH 4700	3	COSC	or MATH Science electi	ve 3
DSCV (MCC) ^{4,5}	3	DSCV	′ (MCC) ^{4,5}	3
OSCM 3001	3	DSCV		3
BUAD 1060	1	BUAD	2100	3
Elective	3			
	16			15
	•	Senior		•
<u>First Term</u>	<u>Sem. Hrs</u> .	<u>Secor</u>	<u>id Ter</u> m	<u>Sem. Hrs</u> .
MATH 4780	3	INDS	4997	3
COSC or MATH science elective 3		CORE	4929 (MCC) or elective	3
CORE 4929 (MCC) or elective	3	MARK	3001	3
INSY 3001	3	Electiv	/es	6
MANA 3001	3			
	16			15

BS/MS Program in Interdisciplinary Data Science and Applied Statistics SAMPLE CURRICULUM

Fall 1	<u>Sem. Hrs</u> .	<u>Spring 1</u>	<u>Sem. Hrs</u> .
COSC 1010 MATH 1450	4 4	COSC 1020 MATH 1451	4 4
ENGL 1001or ESSV1 (MCC) PHIL 1001 or THEO 1001 (MC	3 C) 3	ENGL 1001or ESSV1 (PHIL 1001 or THEO 10	(MCC) 3
			 14
Fall 2	Sem. Hrs.	Spring 2	Sem. Hrs.

STUDENT COMPUTING FACILITIES

Katherine Reed Cudahy Hall houses the University's Information Technology Service (ITS) central computing facilities on the second floor, and Maspartment computing facilities on the first, third and fourth floors.

Marquette students, faculty and staff are granted accounts on the Emarq and CheckMarq systems maintained by ITS. Authentication credentials can be obtained from the ITS Help Desk (room CU 293) and are maintained/rbughout a student's enrollment at Marquette. Additional information regarding University computing facilities can be obtained by calling the ITS Help Desk-at 288 7799.

The MSSC Department maintains its own independent computing facilities fort**each**ing and research purposes. Students enrolled in **CISS** urses or as department majors are granted access to general purpose laboratories in CU 101, CU 310, and CU 412. In addition, students enrolled in particular courses or involved in research purpose granted access to speptiate pose laboratories in CU 301, CU 310, CU 368, CU 392, or CU 410.

The MSSC network features Gigabit internal connectivity between seven subnets with a wide variety of computing hardware and operating system Scolaris and Linux servers provide centralized file, mail, web and print services to Windows, Linux, Solaris and Mac clients. Computer configurations range from an diesk PC classroom to laboratories of elucadd workstations for collaborative project whor

Although students may have their own computer equipment, the CMBS artment provides sufficient facilities for all MSSC coursework. Students are encouraged to make use of department facilities; experience with heterogeneous computing environ merotsides a rich educational opportunity, and MSC maintains a large body of software tailored to the needs and interests of department majors.

Additional information about MSC department computing facilities can be obtained from the MSSC system administator at 2881580, or online a<u>https://www.marquette.edu/mathemati</u>cal <u>andstatisticalsciences</u>/