

MILLIKIN UNIVERSITY
Mathematics - Data Science - 8 Semester Plan

Semester #1	Hours	Semester #2	Hours
MA140 Calculus I	4	MA208 Discrete Mathematics	3
CS135 Intro to Comp Sci	3	MA240 Calculus II	4
IN140 University Seminar **	3	CS235 Intro to Data Science	3
IN180 University Writing **	3	IS221 Programming Fundamentals	3
Foreign Language OR Science (1 of 3)	4	CO200 **	3
Semester Total	17	Semester Total	16
Cumulative Total	17	Cumulative Total	33
Semester #3	Hours	Semester #4	Hours
MA304 Probability	3	MA303 Linear Algebra	3
MA340 Calculus III	4	MA314 Math Stats	3
CS337 Algorithms and Data Struct	3	CS342 Artificial Intlelligence *	3
IS240 Foundations of Information Systems	3	AT110/BU230/BU250 (choose one)	3
Foreign Language OR Science (2 of 3)	4	IN280 Writing in the Disciplines **	3
Semester Total	17	Semester Total	15
Cumulative Total	50	Cumulative Total	65
Semester #5	Hours	Semester #6	Hours
MA230 Regress./Time Series *	3	CS308 Theory of Computation *	3
IS321 System Analysis & Design	3	IS370 Database Application Development	3
IN250 **	3	ICS 1 **	3
Natural Science with Lab **	4	IN251 **	3
Elective	3	Foreign Language OR Science (3 of 3)	4
Semester Total	16	Semester Total	16
Cumulative Total	81	Cumulative Total	97
Semester #7	Hours	Semester #8	Hours
IS470 Business Intelligence & Big Data	3	MA499 Senior Seminar	3
IN350 Global Studies **	3	Creative Arts **	3
Literature ***	3	Elective	3
ICS 2 **	3	Elective	3
Historical Studies ***	3		
Semester Total	15	Semester Total	12
Cumulative Total	112	Cumulative Total	124

NOTES:

The schedule above provides a template. Schedules will vary by student. Summer courses may be taken at Millikin or another institution (course approved through Registrar).

Courses in bold face are required.

Undergraduate graduation hour requirements: 124 credits (39 credits must be at 300 level)

To be considered full time, students must enroll in a minimum of 12 credit hours per semester.

If taking Advanced Placement courses in high school or considering dual enrollment in high school/community college courses, please speak with a faculty advisor or Registrar's Office at Millikin prior to selection/enrollment.

Students will select between additional foreign language or science hours depending on whether they choose the Bachelor of Arts or Bachelor of Science option.

* These courses are offered on an every other year basis.

** For students in the honors program, university studies courses are replaced with specific honors course requirements. Consult the bulletin for a list of these requirements.

*** Historical Studies and Literature may double dip with certain sections of some courses (e.g. honors seminars, IN250, IN350, etc.).