DUAL DEGREE MATHEMATICS (B.A.) AND DATA SCIENCE (M.S.)

The Mathematical Sciences Department at Salve Regina University offers a dual 3+2 program with the University of Massachusetts Dartmouth leading to a B.A. in mathematics and a minor in data analytics from Salve Regina University and a master's degree in data science from the University of Massachusetts Dartmouth.

Students in this 5-year program take courses to fulfill the requirements for the B.A. in mathematics and a minor in data analytics at Salve Regina University in the first three years of study, after which they take courses at the University of Massachusetts Dartmouth for two additional years. In the fourth year of this program, students take courses at the University of Massachusetts Dartmouth for two additional years. In the fourth year of this program, students take courses at the University of Massachusetts Dartmouth for two additional years. In the fourth year of this program, students take courses at the University of Massachusetts Dartmouth for the master's degree in data science and to complete their B.A. in mathematics from Salve Regina University. Upon successful completion of courses at the end of the fourth year, students in this program are awarded the B.A. in mathematics with a minor in data analytics and graduate with their class at Salve Regina University's commencement. In the fifth year of this program, students complete the requirements for a master's degree in data science from University of Massachusetts Dartmouth.

To remain in this program, students must maintain a 3.25 GPA, with no grade below a C- in any mathematics (MTH), computer science (CSC), data science and analytics (DSA), or statistics (STA) course, and have the written recommendation of the department chair.

Students seeking the B.A. in mathematics and a minor in data analytics from Salve Regina University and a master's degree in data science from the University of Massachusetts Dartmouth enroll at Salve Regina University for three years followed by two years at the University of Massachusetts Dartmouth. A minimum of 120 credits are required to earn a bachelor's degree, including 41-44 credits of core courses (https://catalog.salve.edu/undergraduate/curriculum-degree-programs/). While enrolled at Salve Regina University, students in this program complete a minimum of 90 credits, including the following required courses:

Code	Title	Credits
MTH-173	Discrete Mathematics	3
MTH-195	Calculus I	4
MTH-196	Calculus II	4
MTH-203	Calculus III	4
MTH-211	Linear Algebra	3
MTH-213	Differential Equations	3
Select one option	depending on calendar year:	9
Courses require calendar year (ed for mathematics majors entering in an ODD 9 credits):	
MTH-421	Abstract Algebra	
STA-341	Statistical Theory I	
STA-342	Statistical Theory II	
Courses require calendar year.	ed for mathematics majors entering in an EVEN	
MTH-315	Geometry	
MTH-411	Analysis I	

MTH-412	Analysis II	
CSC-103	Computer Programming I	3
CSC-104	Computer Programming II	3
DSA-201	Introduction to Data Science and Analytics	3
DSA-202	Data Analysis and Visualization	3
PHY-205	Principles of Physics I	4
PHY-206	Principles of Physics II	4
Select one electiv	e course from the following:	3
ACC-405	Accounting Research & Analytics	
CSC-300	Algorithms and Data Structures	
ECN-307	Introduction to Econometrics	
Core curriculum		
FYT-101	First Year Studio	1
GST-098	Sophomore Studio	1
UNV-101	University Seminar	3
UNV-102	University Seminar II	3
PHL-225	Quest for the Good Life	3
RTS-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions	3
Eight additional core courses.		24
Total Credits		91

Up to 30 credits of approved coursework completed at the University of Massachusetts Dartmouth in year 4 will be transferred to Salve Regina to complete undergraduate degree requirements, including the requirements for the B.A. in mathematics.

Degree Plan for Dual Degree Mathematics (B.A.) and Data Science (M.S.) (Starting in odd year)

Course	Title	Credits
First Year		
Fall		
FYT-101	First Year Studio	1
UNV-101	University Seminar	3
MTH-195	Calculus I	4
CSC-103	Computer Programming I	3
Core Course		3
Core Course		3
	Credits	17
Spring		
UNV-102	University Seminar II	3
MTH-196	Calculus II	4
MTH-173	Discrete Mathematics	3
CSC-104	Computer Programming II	3
Core Course		3
	Credits	16
Second Year		
Fall		
GST-098	Sophomore Studio ¹	1
RTS-225	The Quest for the Ultimate: Dialogue with Global	3
OF PHL-225	or Quest for the Good Life	
MTH-203	Calculus III	4
MTH-211	Linear Algebra	3
PHY-205	Principles of Physics I	4
	Credits	15

Spring

	Total Credits	91
	Credits	12
Core Course		3
Core Course		3
DSA-202	Data Analysis and Visualization	3
STA-342	Statistical Theory II	3
Spring	orcano	15
	Credits	15
Core Course		3
Elective in Business F	Biology CSC Cybersecurity or DSA	3
DSA-201	Introduction to Data Science and Analytics	3
MTH-421	Abstract Algebra	3
STA-341	Statistical Theory I	3
Fall		
Third Year	Cieurs	10
Core Course	Credite	J 16
Core Course		3
	Finicipies of Filysics in	4
MTH-213	Differential Equations	3
MTH 010	or Quest for the Good Life	-
RTS-225 or PHL-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions $^{\rm 2}$	3

¹ This weekend workshop may be taken in either the fall or spring semester of sophomore year.

 $^{\rm 2}\,$ One each semester.

Minimum of 120 credits required for degree conferral.

Degree Plan for Dual Degree Mathematics (B.A.) and Data Science (M.S.) (Starting in even year)

Course	Title	Credits
First Year		
Fall		
FYT-101	First Year Studio	1
UNV-101	University Seminar	3
MTH-195	Calculus I	4
CSC-103	Computer Programming I	3
Core Course		3
Core Course		3
	Credits	17
Spring		
UNV-102	University Seminar II	3
MTH-196	Calculus II	4
MTH-173	Discrete Mathematics	3
CSC-104	Computer Programming II	3
Core Course		3
	Credits	16
Second Year		
Fall		
GST-098	Sophomore Studio ¹	1
MTH-203	Calculus III	4
MTH-211	Linear Algebra	3
PHY-205	Principles of Physics I	4
DSA-201	Introduction to Data Science and Analytics	3
	Credits	15

	Total Credits	91
	Credits	12
Core Course		3
Core Course		3
MTH-412	Analysis II	3
or RTS-225	or The Quest for the Ultimate: Dialogue with Global Religious Traditions	З
Spring	Question the Questi if a ²	
	Credits	15
Core Course		3
Core Course		3
Elective in Business, I	Biology, CSC, Cybersecurity or DSA	Э
MTH-411	Analysis I	3
MTH-315	Geometry	3
Fall		
Third Year		
	Credits	16
Core Course		3
DSA-202	Data Analysis and Visualization	3
PHY-206	Principles of Physics II	4
MTH-213	Differential Equations	3
or PHL-225	Religious Traditions ² or Quest for the Good Life	c
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Spring

¹ This weekend workshop may be taken in either the fall or spring semester of sophomore year.

² One in spring of the second year and one in spring of the third year.

Minimum of 120 credits required for degree conferral.