

Bachelor of Science in Mathematics (B.S.) Degree with a Concentration in Data Analytics

Sample Four-Year Plan Starting in Odd Year

First Year Fall (Odd Year)

BBL	1013	Old Testament Survey
COR	1002	Gateway Seminar
EGL	1013	English I: Composition
MTH	1163	Calculus I (Mathematics Elective)
EN	1173	Intro. to Programming for Engineers
Total Hours 14		

First Year Spring (Even Year)

BBL	1023	New Testament Survey
EGL	1023	English II: Literary Analysis/Research
MTH	1173	Calculus II
CS	1233	Object-Oriented Programming
	___3	Elective
Total Hours 15		

Second Year Fall (Even Year)

BBL	2022	Essentials of Christian Formation
HST	2013	Integrated Humanities I
MTH	2113	Calculus III
MTH	3103	Foundations of Mathematics
	___3	Social & Behavioral Sci. Elective
Total Hours 14		

Second Year Spring (Odd Year)

HST	2023	Integrated Humanities II
BBL	2013	Essentials of Evangelical Theology
MTH	3133	Linear Algebra & Differential Eq.
BUS	2193	Business Statistics
	___3	Elective
Total Hours 15		

Third Year Fall (Odd Year)

MTH	4123	Abstract Algebra†
PHY	2213	General Physics I (Nat. Sci. Elective)
PHY	2211	General Physics I Lab
MTH	3113	Selected Topics
DAT	3113	Basic Data Analytics
	___3	Elective
Total Hours 16		

Third Year Spring (Even Year)

MTH	2123	Vector Calculus
MTH	3153	Foundations of Geometry†
PHY	2313	General Physics II (Nat. Sci. Elective)
PHY	2311	General Physics II Lab
CS	2243	Data Structures and Algorithms
DAT	4313	Data Visualization
Total Hours 16		

Fourth Year Fall (Even Year)

MTH	2111	Problem-Solving Seminar
MTH	3183	Probability & Statistics (or MTH 3173)
DAT	4253	Bus. Dec. Modeling & Pred. Analytics
CS	3363	Database Design
	___2	Whole Person Wellness Elective
	___3	Elective
Total Hours 15		

Fourth Year Spring (Odd Year)

GSC	4133	Faith and Science
MTH	4143	Real Analysis†
	___3	Intercultural Engagement Elective
	___3	Arts & Humanities Elective
	___3	Elective
Total Hours 15		

Total Hours for Four Years: 120

† Note: The order of alternate year courses will differ depending on whether a student begins his/her studies at JBU in an odd or even year.

Mathematics Electives

MTH 3101	Mathematics Teaching Practicum (Upon request)	MTH 3173	Math. Modeling & Simulation (Upon request)
MTH 3113	Selected Topics (Upon request)	MTH 4220-3	Mathematics Research (Every)
MTH 3143	Topics in Mathematics Education (Fall, even)	MTH 4310	Mathematics Internship (Every)
MTH 3153	Foundations of Geometry (Spring, odd)		

Bachelor of Science in Mathematics (B.S.) Degree with a Concentration in Data Analytics

Sample Four-Year Plan Starting in Even Year

First Year Fall (Even Year)

BBL	1013	Old Testament Survey
COR	1002	Gateway Seminar
EGL	1013	English I: Composition
MTH	1163	Calculus I (Mathematics Elective)
EN	1173	Intro. to Programming for Engineers
Total Hours 14		

First Year Spring (Odd Year)

BBL	1023	New Testament Survey
EGL	1023	English II: Literary Analysis/Research
MTH	1173	Calculus II
CS	1233	Object-Oriented Programming
BUS	2193	Business Statistics
Total Hours 15		

Second Year Fall (Odd Year)

CS	1113	Introduction to Computing
HST	2013	Integrated Humanities I
MTH	2113	Calculus III
DAT	3113	Basic Data Analytics
	___3	Arts & Humanities Elective
Total Hours 15		

Second Year Spring (Even Year)

HST	2023	Integrated Humanities II
MTH	3133	Linear Algebra & Differential Eq.
DAT	4313	Data Visualization
	___3	Social & Behavioral Sci. Elective
	___3	Elective
Total Hours 15		

Third Year Fall (Even Year)

MTH	2111	Problem-Solving Seminar
MTH	3103	Foundations of Mathematics
PHY	2213	General Physics I (Nat. Sci. Elective)
PHY	2211	General Physics I Lab
DAT	4253	Bus. Dec. Modeling & Pred. Analytics
	___3	Elective
Total Hours 14		

Third Year Spring (Odd Year)

BBL	2013	Essentials of Evangelical Theology
MTH	2123	Vector Calculus
PHY	2313	General Physics II (Nat. Sci. Elective)
PHY	2311	General Physics II Lab
MTH	4143	Real Analysis†
CS	2243	Data Structures and Algorithms
Total Hours 16		

Fourth Year Fall (Odd Year)

BBL	2022	Essentials of Christian Formation
MTH	4123	Abstract Algebra†
MTH	3183	Probability & Statistics (or MTH 3173)
MTH	3113	Selected Topics
CS	3363	Database Design
	___2	Whole Person Wellness Elective
Total Hours 16		

Fourth Year Spring (Even Year)

GSC	4133	Faith and Science
MTH	3153	Foundations of Geometry†
	___3	Intercultural Engagement Elective
	___3	Elective
	___3	Elective
Total Hours 15		

Total Hours for Four Years: 120

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