Bachelor of Science (B.S.) Degree with Major in Mathematics

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   1134   Calculus I
___3   Elective
Total Hours 15

First Year Spring (Even Year)
BBL   1023   New Testament Survey
EGL   1023   English II: Literary Analysis/Research
MTH   1144   Calculus II
___2   Whole Person Wellness Elective
___3   Elective
Total Hours 15

Second Year Fall (Even Year)
CS   1113   Introduction to Computing
HST   2013   Integrated Humanities I
MTH   2111   Problem-Solving Seminar
MTH   2114   Linear Algebra & Differential Eq.
MTH   3103   Foundations of Mathematics
Total Hours 14

Second Year Spring (Odd Year)
HST   2023   Integrated Humanities II
MTH   2123   Vector Calculus
MTH   3153   Foundations of Geometry
___3   Elective
___3   Elective
Total Hours 15

Third Year Fall (Odd Year)
MTH   4143   Real Analysis†
PHY   2114   General Physics I (Nat.Sci.(NS)Elective)
MTH   3113   Selected Topics
___3   Arts & Humanities (AH) Elective
___3   Social/Behavioral Sci. (SBS) Elective
Total Hours 16

Third Year Spring (Even Year)
BBL   2013   Essentials of Evangelical Theology
MTH   3183   Probability & Statistics (or MTH 3173)
MTH   4123   Abstract Algebra†
PHY   2124   General Physics II (NS Elective/lab)
___3   Elective
Total Hours 16

Fourth Year Fall (Even Year)
BBL   2022   Essentials of Christian Formation
___3   SBS or AH Elective (see above)
___4   Elective
___3   Elective
___3   Elective
Total Hours 15

Fourth Year Spring (Odd Year)
GSC   4133   Faith and Science
___3   Intercultural Engagement Elective
___4   Elective
___4   Elective
Total Hours 14

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 3113 Selected Topics (Upon request)
MTH 3143 Topics in Mathematics Education (Fall, even yrs.)
MTH 3153 Foundations of Geometry (Spring, ODD)

MTH 3173 Math. Modeling & Simulation (Upon request)
MTH 4113 Selected Topics (Upon request)
MTH 4220-3 Mathematics Research (Every)
MTH 4310   Mathematics Internship (Every)

Bachelor of Science (B.S.) Degree with Major in Mathematics

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	1134	Calculus I
	___3	Elective

Total Hours 15

First Year Spring (Odd Year)

BBL	1023	New Testament Survey
EGL	1023	English II: Literary Analysis/Research
MTH	1144	Calculus II
	___2	Whole Person Wellness Elective
	___3	Elective

Total Hours 15

Second Year Fall (Odd Year)

HST	2013	Integrated Humanities I
MTH	2114	Linear Algebra & Differential Eq.
	___3	Social/Behavioral Sci. (SBS) Elective
	___3	Elective
	___3	Elective

Total Hours 16

Second Year Spring (Even Year)

HST	2023	Integrated Humanities II
MTH	2123	Vector Calculus
	___3	Elective
	___3	Elective
	___3	Elective

Total Hours 15

Third Year Fall (Even Year)

CS	1113	Introduction to Computing
MTH	2111	Problem-Solving Seminar
MTH	3103	Foundations of Mathematics
PHY	2114	General Physics I (Nat.Sci.(NS)Elective)
	___3	Arts & Humanities (AH) Elective

Total Hours 14

Third Year Spring (Odd Year)

BBL	2013	Essentials of Evangelical Theology
MTH	3183	Probability & Statistics (or MTH 3173)
PHY	2124	General Physics II (NS Elective/lab)
MTH	3153	Foundations of Geometry
	___3	Elective

Total Hours 16

Fourth Year Fall (Odd Year)

BBL	2022	Essentials of Christian Formation
MTH	4143	Real Analysis†
MTH	3113	Selected Topics
	___3	SBS or AH Elective (see above)
	___3	Elective

Total Hours 14

Fourth Year Spring (Even Year)

GSC	4133	Faith and Science
MTH	4123	Abstract Algebra
	___3	Intercultural Engagement Elective
	___3	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 even/odd year.

Mathematics Electives

MTH 3101 Mathematics Teaching Practicum (Upon request)	MTH 3173 Math. Modeling & Simulation (Upon request)
MTH 3113 Selected Topics (Upon request)	MTH 4113 Selected Topics (Upon request)
MTH 3143 Topics in Mathematics Education (Fall, even yrs.)	MTH 4220-3 Mathematics Research (Every)
MTH 3153 Foundations of Geometry (Spring, ODD)	MTH 4310 Mathematics Internship (Every)

Bachelor of Science in Mathematics (B.S.) Degree with an Emphasis in Actuarial Science

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	1134	Calculus I
ECN	2113	MicroEcon. Social Behavioral Science(SBS)Elective
		Total Hours 15

First Year Spring (Even Year)
BBL	1023	New Testament Survey
EGL	1023	English II: Literary Analysis/Research
MTH	1144	Calculus II
ECN	2123	MacroEconomics AH or SBS Elective
	___2	Whole Person Wellness Elective
		Total Hours 15

Second Year Fall (Even Year)
BBL	2022	Essentials of Christian Formation
HST	2013	Integrated Humanities I
ATG	2173	Principles of Financial Accounting
MTH	2114	Linear Algebra & Differential Eq.
MTH	3103	Foundations of Mathematics
		Total Hours 15

Second Year Spring (Odd Year)
HST	2023	Integrated Humanities II
MTH	2123	Vector Calculus
MTH	3153	Foundations of Geometry
BUS	2193	Business Statistics
FIN	3003	Principles of Finance
		Total Hours 15

Third Year Fall (Odd Year)
MTH	4143	Real Analysis†
PHY	2114	General Physics I (Nat.Sci.(NS)Elective)
MTH	3113	Selected Topics
FIN	4283	Intermediate Corporate Finance
BUS	3113	Spreadsheet Analytics
		Total Hours 16

Third Year Spring (Even Year)
BBL	2013	Essentials of Evangelical Theology
MTH	3183	Probability & Statistics (or MTH 3173)
MTH	4123	Abstract Algebra†
PHY	2124	General Physics II (NS Elective/lab)
ECN	3133	Money and Banking
		Total Hours 16

Fourth Year Fall (Even Year)
MTH	2111	Problem-Solving Seminar
CS	1113	Introduction to Computing
FIN	3063	Investments
	___3	SBS or AH Elective (see above)
	___4	Elective
		Total Hours 14

Fourth Year Spring (Odd Year)
GSC	4133	Faith and Science
	___3	Intercultural Engagement Elective
	___4	Elective
	___4	Elective
		Total Hours 14

Total Hours for Four Years: 120

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Mathematics Electives

MTH 3101	Mathematics Teaching Practicum (Upon request)	MTH 3173	Math. Modeling & Simulation (Upon request)
MTH 3113	Selected Topics (Upon request)	MTH 4113	Selected Topics (Upon request)
MTH 3143	Topics in Mathematics Education (Fall, even yrs.)	MTH 4220-3	Mathematics Research (Every)
MTH 3153	Foundations of Geometry (Spring, ODD)	MTH 4310	Mathematics Internship (Every)

Bachelor of Science in Mathematics (B.S.) Degree
with an Emphasis in Actuarial Science

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	1134	Calculus I
ECN	2113	MicroEcon. Social Behavioral Science(SBS)Elective

Total Hours 15

First Year Spring (Odd Year)

BBL	1023	New Testament Survey
EGL	1023	English II: Literary Analysis/Research
MTH	1144	Calculus II
ECN	2123	MacroEconomics AH or SBS Elective
___	2	Whole Person Wellness Elective

Total Hours 15

Second Year Fall (Odd Year)

HST	2013	Integrated Humanities I
MTH	2114	Linear Algebra & Differential Eq.
ATG	2173	Principles of Financial Accounting
___	3	Elective
___	3	Elective

Total Hours 16

Second Year Spring (Even Year)

HST	2023	Integrated Humanities II
MTH	2123	Vector Calculus
BUS	2193	Business Statistics
FIN	3003	Principles of Finance
___	3	Elective

Total Hours 15

Third Year Fall (Even Year)

CS	1113	Introduction to Computing
MTH	2111	Problem-Solving Seminar
MTH	3103	Foundations of Mathematics
PHY	2114	General Physics I (Nat.Sci.(NS)Elective)
FIN	3063	Investments

Total Hours 14

Third Year Spring (Odd Year)

BBL	2013	Essentials of Evangelical Theology
MTH	3183	Probability & Statistics (or MTH 3173)
PHY	2124	General Physics II (NS Elective/lab)
MTH	3153	Foundations of Geometry
BUS	3113	Spreadsheet Analytics

Total Hours 16

Fourth Year Fall (Odd Year)

BBL	2022	Essentials of Christian Formation
MTH	4143	Real Analysis†
MTH	3113	Selected Topics
FIN	4283	Intermediate Corporate Finance
___	3	SBS or AH Elective (see above)

Total Hours 14

Fourth Year Spring (Even Year)

GSC	4133	Faith and Science
MTH	4123	Abstract Algebra†
ECN	3133	Money and Banking
___	3	Intercultural Engagement Elective
___	3	Elective

Total Hours 15

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