B.S. in Actuarial Science & Finance 2023-2024: Option 1- CWILT

FIRST YEAR

Fall	Credits	January Session	Credits	Spring	Credits
COS 100 Introduction to Programming	3	GES 160 Inquiry Seminar	3	BIB 101 Introduction to the Bible	3
MAT 124M Calculus 1 *1	4			COS 105 Object-oriented Design and Programming	4
GES 140 Introduction to Wellbeing	2			GES 130 Christianity Western Culture	4
GES 125 Introduction to the Creative Arts	4			MAT 125 Calculus 2	4
	13		3		15

SECOND YEAR

Fall	Credits	January Session	Credits	Spring	Credits
MAT 223 Multivariable Calculus	3	Contemporary Western Life and Thought (L) course	3	World Cultures (U) course	3
MAT 241 Discrete Mathematics	3			ECO 202 - Principles of Microeconomics	2
COS 212 Data Structures	4			ECO 203 - Principles of Macroeconomics	2
Laboratory Science (D) course	4			COS 216 Algorithms and Advanced Data Structures	3
BUS 220 Principles of Marketing	4			THE 201 Christian Theology	3
				Second Language (S) course *2	4
	18		3		17

THIRD YEAR

Fall	Credits	January Session	Credits	Spring	Credits
COS 313 (fall, even # years) Database Systems	3	Interpreting Biblical Themes (J) course	3	BUS 317 Business Analytics	3
MAT 330 Probability and Statistics	3			MAT 300 (spring, odd # years) Numerical Analysis	3
Science, Technology, and Society (K) course	3			BUS 230 Principles of Management	4
Comparative Systems (G) course	3			BUS 344 Managerial Finance	4
BUS 210 Financial Accounting	4			Artistic Experience (A) course	0-3
	16		3		14-17

FOURTH YEAR

Fall	Credits	January Session	Credits	Spring	Credits
MAT 376 (fall, odd # years) Operations Research	4	Cross-Cultural Experience (Z) course	0-3	BUS 470 Finance Seminar	3
MAT 309 Financial Math (Fall, odd # years)	3			COS 334 (spring, even # years) or BUS416	3
Contemporary Christian Issues (P) course	3			Internship	3-4
BUS 352 Financial Valuation	3			MAT 331 (spring, even # years) Applied Statistics	3
BUS 440 Capital Markets	4			BUS 361 Business Law	3
	17		0-3		15-16

Total Credits 134-141

*1. This program assumes students will use MAT 124M to meet the General Education Mathematics (M) course requirement.
*2. Students must complete through the second semester of a first year language course or equivalent (check the catalog for details).

Most financial aid packages stipulate 12 credits/term; Minnesota state grants are reduced when credit load falls below 15 credits/semester. January Session credits are counted as part of Spring Term.

Note that this plan only needs one of MAT300 or MAT376, but they are offered in different semesters

B.S. in Actuarial Science & Finance 2023-2024: Option 2- Humanities

FIRST YEAR

Fall	Credits	January Session	Credits	Spring	Credits
COS 100 Introduction to Programming	3	GES 147 Humanities II: Renaissance and Reformation	4	BIB 101 Introduction to the Bible	3
MAT 124M Calculus 1 *1	4			COS 105 Object-oriented Design and Programming	4
GES 140 Introduction to Wellbeing	2			MAT 125 Calculus 2	4
GES 145 Humanities I: Greco-Roman through Middle Ages	4			GES 244 Humanities III: European Enlightenment and American Culture to 1877	4
	13		4		15

SECOND YEAR

Fall	Credits	January Session	Credits	Spring	Credits
MAT 223 Multivariable Calculus	3	Laboratory Science (D) course	4	ECO 202 - Principles of Microeconomics	2
MAT 241 Discrete Mathematics	3			ECO 203 - Principles of Macroeconomics	2
COS 212 Data Structures	4			World Cultures (U) course	3
GES 246 Humanities IV: Modern and Contemporary Western Culture	4			COS 216 Algorithms and Advanced Data Structures	3
BUS 220 Principles of Marketing	4			Second Language (S) course *2	4
	18		4		14

THIRD YEAR

Fall	Credits	January Session	Credits	Spring	Credits
COS 313 (fall, even # years) Database Systems	3	Interpreting Biblical Themes (J) course	3	BUS 317 Business Analytics	3
MAT 330 Probability and Statistics	3			MAT 300 (spring, odd # years) Numerical Analysis	3
Science, Technology, and Society (K) course	3			Internship	3-4
Comparative Systems (G) course	3			BUS 230 Principles of Management	4
BUS 210 Financial Accounting	4			Artistic Experience (A) course	0-3
	16		3		13-17

FOURTH YEAR

Fall	Credits	January Session	Credits	Spring	Credits
MAT 376 (fall, odd # years) Operations Research	4	Cross-Cultural Experience (Z) course	0-3	BUS 352 Financial Valuation	3
MAT 309 Financial Math (Fall, odd # years)	3			BUS 470 Finance Seminar	3
Contemporary Christian Issues (P) course	3			COS 334 (spring, even # years) or BUS416	3
BUS 440 Capital Markets	3			MAT 331 (spring, even # years) Applied Statistics	3
BUS 344 Managerial Finance	4			BUS 361 Business Law	3
	17		0-3		15

Total Credits 132-139

*1. This program assumes students will use MAT 124M to meet the General Education Mathematics (M) course requirement.

*2. Students must complete through the second semester of a first year language course or equivalent (check the catalog for details).

Most financial aid packages stipulate 12 credits/term; Minnesota state grants are reduced when credit load falls below 15 credits/semester. January Session credits are counted as part of Spring Term.

Note that this plan only needs one of MAT300 or MAT376, but they are offered in different semesters

B.S. in Actuarial Science and Finance 2023-2024: Sample plan entering with AA Degree

FIRST YEAR

Fall	Credits	January Session	Credits	Spring	Credits
MAT124M Calculus 1	4	GES 130 Christianity Western Culture	4	BUS210 Financial Accounting	4
ECO202 Principles of Microeconomics	2			COS105 Object-oriented Design and Programming	4
ECO203 Principles of Macroeconomics	2			MAT125 Calculus 2	4
BIB 101 Introduction to the Bible	3			BUS230 Principles of Management	4
COS100 Introduction to Programming	3				
BUS220 Principles of Marketing	4				
	18		4		16

SECOND YEAR

Fall	Credits	January Session	Credits	Spring	Credits
MAT309 Financial Mathematics	3	Contemporary Christian Issues (P) Course	3	BUS317 Business Analytics	4
MAT241 Discrete Mathematics	3			COS216 Algorithms and Advanced Data Structures	3
COS212 Data Structures	4			BUS352 Financial Modeling & Valuation	3
MAT330 Probability and Statistics	3			BUS361 Business Law	3
BUS344 Managerial Finance	4			BUS440 Capital Markets	3
	17		3		16

THIRD YEAR

Fall	Credits	January Session	Credits	Spring	Credits
MAT223 Multivariable Calculus	3			MAT331 Applied Statistics	3
MAT376 Operations Research	4			BUS416 Business Forecasting and Data Mining	3
				Internship	3-4
	7				9-10

FOURTH YEAR

Fall	Credits	January Session	Credits	Spring	Credits
COS313 Database Systems	3				
	3 [1]				

Total Credits 93-94 at Bethel + 60 in AA degree = 153-154

Most financial aid packages stipulate 12 credits/term; Minnesota state grants are reduced when credit load falls below 15 credits/semester. January Session credits are counted as part of Spring Term.

[1] see *6