

BIOCHEMISTRY Major

Student: _____

Minor? Additional Goals (Minor, Study abroad, minor, pre-professional...) _____

Fall			
Dept & Course #	WOT	Theme (E/F)	Cr.
CHEM 125	NW	Truth (E)	4
INTG 100			4
LANG			4
BIOL 101	NW	Truth (E)	4
CHEM 201	NW		1
INTG 105			1

Spring			
Dept & Course #	WOT	Theme (E/F)	Cr.
CHEM 250			4
XXXX XXX	CI		4
LANG			4
BIOL 201		Truth (F)	4
CHEM 202			1

Fall			
Dept & Course #	WOT	Theme (E/F)	Cr.
CHEM 251			4
THEO 1XX	TE		4
PHYS 105/191	QR	Mvmt (E)	4
LANG			4
CHEM 203		Mvmt (E)	1

Spring			
Dept & Course #	WOT	Theme (E/F)	Cr.
CHEM 255	QR		4
PHYS 106/200	NW	Truth (E)	4
MATH 119	AS	Mvmt (E)	4
XXXX XXX	SW		4
CHEM 205	WR		1

Fall			
Dept & Course #	WOT	Theme (E/F)	Cr.
CHEM 315	NW	Mvmt (E)	4
BIOL 317			4
^a BIOL 3XX or 2 CHEM 3XX			4
MATH 120/124	AS		4

Spring			
Dept & Course #	WOT	Theme (E/F)	Cr.
XXXX XXX	CS		4
XXXX XXX	AE		4
XXXX XXX	GL		4

Fall			
Dept & Course #	WOT	Theme (E/F)	Cr.
THEO 3XX	TI		4
XXXX XXX	HE		4
BIOL 311			4

Spring			
Dept & Course #	WOT	Theme (E/F)	Cr.
INTG 300			4
BCHM 375	EX		2
BCHM XXX			0
XXXX XXX	BN		4
BIOL 318			4

Integrations Curriculum:

Foundational Courses:

- ___ College Success (INTG 105)
- ___ Learning Foundations INTG 100 (LF)
- ___ Culture & Social Difference: Identity (CI)
- ___ Theological Explorations (TE)

Ways of Thinking:

- ___ Abstract Structures (AS)
- ___ Artistic Expression (AE)
- ___ Human Experience (HE)
- ___ Natural World (NW)
- ___ Social World (SW)

Additional:

- ___ Artistic Engagement (AR)
- ___ Quantitative Reasoning (QR)
- ___ Experiential Engagement (EX)
- ___ Global Engagement (GL)**
- ___ Benedictine (BN)**
- ___ Write Designation (WR)**

** GL, BN, WR waived for students entering AY2020 & AY2021

Upper-Level Coursework

- ___ Theological Integrations (TI)
- ___ Cultural & Social Difference: Systems (CS)
- ___ Learning Integrations – INTG 300 (LI)

Global Language

- ___ 111 Beginning I
- ___ 112 Beginning II
- ___ 211 Intermediate

Themes (One theme, at least two depts)

- ___ Thematic Encounter
- ___ Thematic Encounter
- ___ Thematic Focus

General Requirements:

- ___ 124 Total credits
- ___ 40 upper division credits
- ___ Cumulative GPA > 2.0
- ___ Major GPA > 2.0

Integrations notes on next page

BIOCHEM Major Requirements:

Chemistry Courses:

- ___ CHEM 125 (4): Intro Chem St/Prop
- ___ CHEM 250 (4): Reactivity 1
- ___ CHEM 251 (4): Reactivity 2
- ___ CHEM 255 (4): Macro Chem Analysis
- ___ CHEM 315 (4): Advanced Reactivity

___ ^aBiochem elective (1 x 4cr biology or 2 x 2cr chemistry)

Chemistry Labs:

- ___ CHEM 201 (0,1): Purif/Struct
- ___ CHEM 202 (0,1): Purif/Chrom
- ___ CHEM 203 (0,1): Synthesis
- ___ CHEM 205 (0,1): Measurement

Biology Courses:

- ___ BIOL 101 (4): Foundations of Biol
- ___ BIOL 201 (4): Interned Cell Bio, & Ge
- ___ BIOL 311 (4, F): Cell Biol
- ___ BIOL 317 (4): Biochemistry
- ___ BIOL 318 (4, Sp): Molec Genetics

Additional Courses:

- ___ BCHM 375 (2, Sp): Capstone
- ___ BCHM XXX (0)

Supporting Courses:

- ___ MATH 119 (4): Calc I
- ___ MATH 120 (4): Calc II OR
- ___ MATH 124 (4): Stats
- ___ PHYS 105/191(4)
- ___ PHYS 106/200 (4)

^aBiochem Electives (4 credits required):

- BIOL 307 (4, F): Microorganisms
- BIOL 319 (4, Sp): Immunology
- BIOL 320 (4, Sp): Neurobiology
- BIOL 323 (4, F): Animal Physiology
- BIOL 329 (4): Histology
- BIOL 339 (4, Sp): Evolution
- BIOL 373L (4): Mathematical Modeling

- CHEM 323 (2): Topics in Biochemistry
- CHEM 347 (2, F): Chemical Biology
- CHEM 352 (2): Signal Transduction
- CHEM 353 (2, Sp): Xenobiotic Metabolism
- CHEM 358 (2): Biomacromolecules