Biochemistry with MFS Option/ BS Degree

Suggested Course Sequence

For students entering the major in catalog year 2024-25

YEAR 1				
SEMESTER	FALL 2024	-	SPRING 2025	
	INT 100 Principles of Academic Integrity	0	FSCI 101 Survey of Forensic Sciences	3
	FYS 100 First Year Seminar	1	Humanities I* (HUM)	3
	ENG 151 College Writing I	3	ENG 152 College Writing II	3
	MATH 220 Calculus I Quantitative Literacy (QL)	4		
	CHEM 114 General Chem I with Problem Solving or CHEM 115 General Chem I and			
	CHEM 115L General Chem I Laboratory and		CHEM 116 General Chemistry II	
	CHEM 115S General Chem I SoLVE	4	CHEM 116L General Chemistry II Laboratory &	4
	Scientific Reasoning – Lab (SR-L) BIO 112 Principles of General Biology I or	4	CHEM 116S General Chemistry II SoLVE	4
	BIO 113 Gen Biology I: Cell and Genetics and			
	BIO 113L Gen Biology I Laboratory Scientific Reasoning – Lab (SR-L)	4	Communication Intensive (CI) Recommended: CM 101 Public Speaking	3
CREDITS YEAR 2	16 CR	EDITS	16	CREDIT
SEMESTER	FALL 2025 SCI 215 Writing in the Sciences		SPRING 2026 PHYS 210 General Physics I or	
	200-Level Writing Intensive (WI)	3	PHYS 210 General Physics For PHYS 215 General Physics I with Calculus	4
	CHEM210 Organic Chemistry I and		CHEM 211 Organic Chemistry II and	
	CHEM 210L Organic Chemistry I Laboratory	4	CHEM 211L Organic Chemistry II Laboratory	4
	CHEM 213 Digital Information Literacy for Chem	1	Fine Arts (FA)	3
	BIO 230 Genetics BIO 230 Genetics Lab	4	Social Science I** (SS)	3
	Humanities II* (HUM)	3	Humanities III* (HUM)	3
CREDITS	15 CR	EDITS	17 0	
YEAR 3				
SEMESTER	FALL 2026		SPRING 2027	
		3	BIOCH 427 Advanced Biochemistry	3
	BIOCH 327 Biochemistry	5	BIOCH 427 Advanced Biochemistry	
	BIOCH 327 Biochemistry BIOCH 345L Integrative Lab I	2	BIO/CHEM Group I or Group II Elective^	2-4
	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or	2	BIO/CHEM Group I or Group II Elective^	
	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus		BIO/CHEM Group I or Group II Elective^ BIO/CHEM Group I or Group II Elective^	2-4 2-4 3
	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS)	2 4 1	BIO/CHEM Group I or Group II Elective^ BIO/CHEM Group I or Group II Elective^ FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (<i>Biology Concentration</i>)	2-4 3
	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS) Recommended: PSY 101 Intro to Psychology	2 4 1 3	BIO/CHEM Group I or Group II Elective [^] BIO/CHEM Group I or Group II Elective [^] FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (<i>Biology Concentration</i>) OR FSCI 620 Drug Analysis (<i>Chemistry Concentration</i>)	2-4 3 3
	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS) Recommended: PSY 101 Intro to Psychology UG General Elective/Minor Course	2 4 1 3 3	BIO/CHEM Group I or Group II Elective [^] BIO/CHEM Group I or Group II Elective [^] FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (<i>Biology Concentration</i>) OR FSCI 620 Drug Analysis (<i>Chemistry Concentration</i>) UG General Elective/Minor Course	2-4 3 3 3 3
	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS) Recommended: PSY 101 Intro to Psychology UG General Elective/Minor Course	2 4 1 3	BIO/CHEM Group I or Group II Elective [^] BIO/CHEM Group I or Group II Elective [^] FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (<i>Biology Concentration</i>) OR FSCI 620 Drug Analysis (<i>Chemistry Concentration</i>) UG General Elective/Minor Course	2-4 3 3
CREDITS YEAR 4	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS) Recommended: PSY 101 Intro to Psychology UG General Elective/Minor Course 16 CR	2 4 1 3 3	BIO/CHEM Group I or Group II Elective [^] BIO/CHEM Group I or Group II Elective [^] FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (<i>Biology Concentration</i>) OR FSCI 620 Drug Analysis (<i>Chemistry Concentration</i>) UG General Elective/Minor Course 18 C	2-4 3 3 3 3
	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS) Recommended: PSY 101 Intro to Psychology UG General Elective/Minor Course 16 CR FALL 2027	2 4 1 3 3	BIO/CHEM Group I or Group II Elective [^] BIO/CHEM Group I or Group II Elective [^] FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (<i>Biology Concentration</i>) OR FSCI 620 Drug Analysis (<i>Chemistry Concentration</i>) UG General Elective/Minor Course	2-4 3 3 3 3
YEAR 4	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS) Recommended: PSY 101 Intro to Psychology UG General Elective/Minor Course 16 CR FALL 2027 BIOCH 475 Capstone Seminar	2 4 1 3 3	BIO/CHEM Group I or Group II Elective [^] BIO/CHEM Group I or Group II Elective [^] FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (<i>Biology Concentration</i>) OR FSCI 620 Drug Analysis (<i>Chemistry Concentration</i>) UG General Elective/Minor Course 18 C	2-4 3 3 3 3
YEAR 4	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS) Recommended: PSY 101 Intro to Psychology UG General Elective/Minor Course 16 CR FALL 2027 BIOCH 475 Capstone Seminar 300/400-Level Writing Intensive (WI)	2 4 1 3 3 REDITS	BIO/CHEM Group I or Group II Elective^ BIO/CHEM Group I or Group II Elective^ FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (Biology Concentration) OR FSCI 620 Drug Analysis (Chemistry Concentration) UG General Elective/Minor Course 18 C SPRING 2028	2-4 3 3 3 CREDITS
YEAR 4	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS) Recommended: PSY 101 Intro to Psychology UG General Elective/Minor Course 16 CR FALL 2027 BIOCH 475 Capstone Seminar	2 4 1 3 3 REDITS	BIO/CHEM Group I or Group II Elective [^] BIO/CHEM Group I or Group II Elective [^] FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (<i>Biology Concentration</i>) OR FSCI 620 Drug Analysis (<i>Chemistry Concentration</i>) UG General Elective/Minor Course 18 C SPRING 2028 BIO/CHEM Group I or Group II Elective [^]	2-4 3 3 3 CREDITS 2-4 2-4
YEAR 4	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS) Recommended: PSY 101 Intro to Psychology UG General Elective/Minor Course 16 CR FALL 2027 BIOCH 475 Capstone Seminar 300/400-Level Writing Intensive (WI) BIOCH 470 or 471 Capstone Internship^ BIO/CHEM Group I or Group II Elective^	2 4 1 3 EDITS 3 3/6 2-4	BIO/CHEM Group I or Group II Elective^ BIO/CHEM Group I or Group II Elective^ FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (<i>Biology Concentration</i>) OR FSCI 620 Drug Analysis (<i>Chemistry Concentration</i>) UG General Elective/Minor Course 18 C SPRING 2028 BIO/CHEM Group I or Group II Elective^ BIO/CHEM Group I or Group II Elective^ FSCI 610 Physical Evidence & Crime Scenes FSCI 645 DNA Analysis (<i>Biology Concentration</i>) OR	2-4 3 3 3 CREDITS 2-4 2-4 3
YEAR 4	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS) Recommended: PSY 101 Intro to Psychology UG General Elective/Minor Course 16 CR FALL 2027 BIOCH 475 Capstone Seminar 300/400-Level Writing Intensive (WI) BIOCH 470 or 471 Capstone Internship^ BIO/CHEM Group I or Group II Elective^ FSCI 675 The Crime Laboratory	2 4 1 3 3 EDITS 3 3/6 2-4 3	BIO/CHEM Group I or Group II Elective^ BIO/CHEM Group I or Group II Elective^ FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (Biology Concentration) OR FSCI 620 Drug Analysis (Chemistry Concentration) UG General Elective/Minor Course 18 C SPRING 2028 BIO/CHEM Group I or Group II Elective^ BIO/CHEM Group I or Group II Elective^ FSCI 610 Physical Evidence & Crime Scenes FSCI 645 DNA Analysis (Biology Concentration) OR FSCI 617 Trace Evidence (Chemistry Concentration)	2-4 3 3 3 3 CREDITS 2-4 2-4 3 3 3
YEAR 4	BIOCH 345L Integrative Lab I PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus CHEM 313 Career Connections in Chemistry Social Science II** (SS) Recommended: PSY 101 Intro to Psychology UG General Elective/Minor Course 16 CR FALL 2027 BIOCH 475 Capstone Seminar 300/400-Level Writing Intensive (WI) BIOCH 470 or 471 Capstone Internship^ BIO/CHEM Group I or Group II Elective^	2 4 1 3 EDITS 3 3/6 2-4	BIO/CHEM Group I or Group II Elective^ BIO/CHEM Group I or Group II Elective^ FSCI 540 Crime Scene Photography or Elective FSCI 640 Serology & Immunology (<i>Biology Concentration</i>) OR FSCI 620 Drug Analysis (<i>Chemistry Concentration</i>) UG General Elective/Minor Course 18 C SPRING 2028 BIO/CHEM Group I or Group II Elective^ BIO/CHEM Group I or Group II Elective^ FSCI 610 Physical Evidence & Crime Scenes FSCI 645 DNA Analysis (<i>Biology Concentration</i>) OR	2-4 3 3 3 CREDITS 2-4 2-4 3

PROGRAM POLICIES

Specific information regarding program policies and tracks (if applicable) may be found in the Stevenson University Catalog. Please consult with your academic advisor/success coach if you need additional information. Prerequisite and co-requisite information is listed in the course descriptions. No student, regardless of major, will be permitted to advance to the next course without earning a grade of "C" or better in the prerequisite course(s). When a grade below a "C" is earned in a major course, the student must repeat that course. A course may be repeated once without special permission.

BS to MFS: Bachelor's degree requires successful completion of 120 credits. A minimum of 114 credits must be undergraduate (100-400) level. **Master's courses listed in green.**

COURSE INFORMATION

FYS-100 First Year Seminar

1-credit course required for all first-year students. INT-100 Principles of Academic Integrity O-credit Blackboard course required for all students.

SUO-101 Online Learning Strategies and Success O-credit Blackboard course to prepare for taking SU online classes.

^Choose two Group I Electives BIO 310, BIO 330, CHEM 310 and CHEM 430 **^Choose three Group II Electives (at least one must be at the 300 level or higher)** BIO 203/203L, 280, 313, 322/322L, 332, 335, 362, 365, BIOCH 201, 365, BME 314/MATH 314, CHEM 206, 221, 346L, 365, and 435.

GENERAL EDUCATION NOTES

Stevenson Educational Experience (SEE) courses are identified in blue.

- Specific courses that fulfill SEE requirements are listed in the SU Catalog, on the SU Now Portal, and through Student Planning.
- Students must complete all SEE and major requirements and earn a minimum of 120 credits.
- In the Bachelor's to Master's option six of the 120 credits may be graduate level.
- A minimum of 15 credits must be taken at the 300/400 level.

*HUMANITIES classes must be from at least three different disciplines.

**SOCIAL SCIENCE classes must be from two different disciplines