

ABOUT THE MAJOR

Our ACS-approved Chemistry Department prepares students for dynamic careers in medicine, pharmacy, forensics, research, and beyond. With four distinct majors – Chemistry, Biochemistry, Chemistry-Business, and Forensic Chemistry – students gain the knowledge, skills, and flexibility to pursue advanced study or enter the workforce with confidence, tailoring their expertise to their interests.

CONTACT US

Joan Wasilewski, Ph.D.

Chair, Department of Chemistry

✉ 570.941.6356

📧 joan.wasilewski@scranton.edu

🌐 admissions.scranton.edu/chemistry

OUTCOMES & OPPORTUNITIES

- Chemistry students at Scranton don't just learn – they do. Through summer internships at top institutions like the University of Pittsburgh, UVA, and Carnegie Mellon, they gain experience in professional labs and research settings.
- On campus, our Faculty-Student Research Program (FSRP) offers hands-on opportunities across disciplines – from inorganic chemistry and biochemistry to theoretical physics. With diverse faculty expertise and close mentorship, students explore meaningful questions and build skills.
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Among **TOP 10 IN THE NORTH** for 30+ years
U.S. News & World Report



THE UNIVERSITY *of* SCRANTON

CHEMISTRY

125.5 Credits

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1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 112/112L	General Chemistry	4.5
MATH 114	Calculus I	4
T/RS 121	Theology I: Introduction to the Bible	3
FREE ELECT	Free Elective	3
First Year Seminar		0
		Total Credits: 14.5

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 112/112L	General Chemistry	4.5
MATH 221	Calculus II	4
PHIL 120	Introduction to Philosophy	3
FREE ELECT	Free Elective	3
First Year Seminar		0
		Total Credits: 14.5

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 232/232L	Organic Chemistry	4.5
MATH 222	Calculus III	4
PHYS 140/140L	Elements of Physics I	4
PHIL 210	Ethics	3
		Total Credits: 15.5

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 233/233L	Organic Chemistry	4.5
CHEM 240	Inorganic Chemistry	3
PHYS 141/141L	Elements of Physics II	4
T/RS 122	Theology I: Introduction to Christian Theology	3
HUMN ELECT	Humanities Elective	3
		Total Credits: 17.5

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM ELECT	Chemistry Electives (300 level or above)	3
CHEM 370	Instrumental Analysis	3
CHEM 362/362L	Physical Chemistry	4.5
CHEM 390	Chemical Literature and Writing	1
HUMN ELECT	Humanities Elective	3
S/BH ELECT	Social/Behavioral Elective	3
		Total Credits: 17.5

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM ELECT	Chemistry Electives (300 level or above)	3
CHEM 370L	Instrumental Analysis	3
CHEM 363/363L	Physical Chemistry	4.5
CHEM 391	Seminar	1
S/BH ELECT	Social/Behavioral Elective	3
		Total Credits: 14.5

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 440	Advanced Inorganic Chemistry	3
CHEM 493	Undergraduate Research	1.5
CHEM ELECT	Chem Elective (300 Level or above)	3
CHEM 450	Biochemistry I or CHEM 350 General Biochemistry I	3
FREE ELECT	Free Elective	3
HUMN ELECT	Humanities Elective	3
		Total Credits: 16.5

4th Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 440L	Advanced Inorganic Chemistry	1.5
CHEM 494	Undergraduate Research	1.5
PHIL ELECT	Philosophy or T/RS ELECT Elective	3
CHEM 451	Biochemistry II or CHEM 351 General Biochemistry II	3
FREE ELECT	Free Elective	3
HUMN ELECT	Humanities Elective	3
		Total Credits: 15

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CHEMISTRY-BUSINESS

129 Credits

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1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 112/112L	General Chemistry	4.5
MATH 109	Pre-Calculus Mathematics	4
ECO 153	Principles of Microeconomics	3
WRTG 107	Composition	3
OIM 251	Excel, Power BI, & Python	1
First Year Seminar		0
		Total Credits: 15.5

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 113/113L	Analytical Chemistry	4.5
MATH 114	Calculus I	4
ECO 154	Principles of Macroeconomics	3
COMM 100	Public Speaking	3
C/IL 102/102L	Computing and Information Literacy	3
First Year Seminar		0
		Total Credits: 17.5

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 232/232L	Organic Chemistry	4.5
ACC 253	Financial Accounting	4
T/RS 121	Theology I: Introduction to the Bible	3
PHIL 120	Introduction to Philosophy	3
HUMN ELECT	Humanities Elective	3
		Total Credits: 16.5

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 233/233L	Organic Chemistry	4.5
ACC 254	Managerial Accounting	3
GE ELECT	Free Elective	3
T/RS 122	Theology I: Introduction to Christian Theology	3
HUMN ELECT	Humanities Elective	3
		Total Credits: 16.5

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 320	Industrial Chemistry	3
MGT 351	MGT I: Managing Organizations	3
MKT 251	Principles of Marketing	3
CHEM 390	Chemical Literature and Writing	1
CMPS 330	Information Systems Analysis	3
PHIL 210	Ethics	3
		Total Credits: 16

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
MGT 352	MGT II: Leading People	3
FIN 251	Introduction to Finance	3
MATH 112	Introduction to Statistics	3
CHEM ELECT	Chem, (210 level or above)	3
PHIL ELEC	Philosophy Elective or	
T/RS ELECT	T/RS Elective	3
		Total Credits: 15

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
OIM 351	Introduction to Business Analytics	3
MGT 251	Legal Environment of Business	3
PHYS 120/120L	General Physics I	4
HUMN ELECT	Humanities Elective	3
FREE ELECT	Free Elective	3
		Total Credits: 16

4th Year: SPRING

COURSE#	COURSE TITLE	CREDITS
OIM 352	Introduction to Operations Management	3
PHYS 121/121L	General Physics II	4
HUMN ELECT	Humanities Elective	3
FREE ELECT	Free Electives	6
		Total Credits: 16

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BIOCHEMISTRY (ACS CERTIFICATION TRACK)

126 Credits

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1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 112/112L	General Chemistry	4.5
MATH 114	Calculus I	4
BIOL 141/141L	General Biology	4.5
FREE ELECT	Free Elective	3
First Year Seminar		0
		Total Credits: 16

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 113/113L	Analytical Chemistry	4.5
MATH 221	Calculus II	4
BIOL 142/142L	General Biology	4.5
T/RS 121	Theology I: Introduction to the Bible	3
First Year Seminar		0
		Total Credits: 16

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 232/232L	Organic Chemistry	4.5
PHYS 120/120L	General Physics I	4
GE ELECT	Free Elective	3
PHIL 120	Introduction to Philosophy	3
		Total Credits: 14.5

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 233/233L	Organic Chemistry	4.5
CHEM 240	Inorganic Chemistry	3
PHYS 121/121L	General Physics II	4
PHIL 210	Ethics	3
HUMN ELECT	Humanities Elective	3
		Total Credits: 17.5

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 450	Biochemistry I	3
CHEM 370	Instrumental Analysis	3
CHEM 360/360L	Biophysical Chemistry I	3
CHEM 390	Chemical Literature and Writing	1
S/BH ELECT	Social/Behavioral Elective	3
GE ELECT	Free Elective	3
		Total Credits: 17.5

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 451	Biochemistry II	3
CHEM 370L	Instrumental Analysis	3
CHEM 361/361L	Biophysical Chemistry I	4.5
CHEM 391	Seminar	1
T/RS 122	Theology II: Introduction to Christian Theology	
S/BH ELECT	Social/Behavioral Elective	3
GE ELECT	Free Elective	3
		Total Credits: 17.5

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 440	Advanced Inorganic Chemistry	3
CHEM 493	Undergraduate Research	1.5
COGNATE ELECT	CHEM, BCMB, BIO, PSIO or MATH	3
PHIL ELEC	Philosophy or T/RS ELECT T/RS Elective	3
HUMN ELECT	Humanities Elective	3
CHEM 450L	Biochemistry Laboratory	1.5
		Total Credits: 15

4th Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 440L	Advanced Inorganic Chemistry	1.5
CHEM 494	Undergraduate Research	1.5
HUMN ELECT	Humanities Electives	6
CHEM ELECT	Chemistry Elective, 300 Level or above	3
		Total Credits: 12

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BIOCHEMISTRY PRE-PROFESSIONAL TRACK

122 Credits

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1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 112/112L	General Chemistry	4.5
BIOL 141/141L	General Biology	4.5
MATH 109	Pre-Calculus Mathematics	4
First Year Seminar		0

Total Credits: 13

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 232/232L	Organic Chemistry	4.5
PHYS 120/120L	General Physics I	4
T/RS 121	Theology I: Introduction to the Bible	3
HUMN ELECT	Free Elective	3
S/BH ELECT	Social/Behavioral Elective	3

Total Credits: 17.5

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 360/360L	Biophysical Chemistry I	4.5
CHEM 370	Instrumental Analysis	3
CHEM 450	Biochemistry I	3
CHEM 390	Chemical Literature and Writing	1
T/RS 122	Theology II: Introduction to Christian Theology	3
FREE ELECT	Free Elective	3

Total Credits: 17.5

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM/BIO ELECT	CHEM, BCMB, BIO, PSIO	3
COGNATE ELECT	Biology Elective/BCMB Elective	3
PHIL ELEC	Philosophy or T/RS ELECT T/RS Elective	3
HUMN ELECT	Humanities Elective	3
CHEM 450L	Biochemistry Laboratory	1.5

Total Credits: 13.5

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 113/113L	Analytical Chemistry	4.5
BIOL 142/142L	General Biology	4.5
MATH 114	Calculus I	4
FREE ELECT	Free Elective	3
First Year Seminar		0

Total Credits: 16

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 233/233L	Organic Chemistry	4.5
PHYS 121/121L	General Physics II	4
PHIL 120	Introduction to Philosophy	3
HUMN ELECT	Humanities Elective	3

Total Credits: 14.5

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 370L	Instrumental Analysis	3
CHEM 451	Biochemistry II	3
PHIL 210	Ethics	3
S/BH ELECT	Social/Behavioral Elective	3
FREE ELECT	Free Elective	3

Total Credits: 15

4th Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 490	Advanced Inorganic Chemistry	3
CHEM/BIO ELECT	CHEM, BCMB, BIO, PSIO	3
COGNATE ELECT	Biology Elective/BCMB Elective	3
HUMN ELECT	Humanities Elective	3
FREE ELECT	Free Elective	3

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THE UNIVERSITY *of* SCRANTON

FORENSIC CHEMISTRY

123.5 Credits

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1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 112/112L	General Chemistry	4.5
CJ 110	Introduction to Criminal Justice	3
BIOL 141/141L	General Biology	4.5
T/RS 121	Theology I: Introduction to the Bible	3
First Year Seminar		0
		Total Credits: 15

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 113/113L	Analytical Chemistry	4.5
S/CJ 213	Criminology	3
BIOL 142/142L	General Biology	4.5
WRTG 107	Composition	3
First Year Seminar		0
		Total Credits: 15

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 232/232L	Organic Chemistry	4.5
SOC 110	Introduction to Sociology	3
PHYS 120/PHYS 120L	General Physics I	4
MATH 114	Calculus I	4
		Total Credits: 15.5

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 233/233L	Organic Chemistry	4.5
CJ 237	The Investigative Process	
or CJ 338	Police Criminalistics	3
PHYS 121/PHYS 121L	General Physics II	4
PHIL 120	Introduction to Philosophy	3
		Total Credits: 14.5

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 350	General Biochemistry I	3
CHEM 360/360L	Biophysical Chemistry I	4.5
CHEM 370	Instrumental Analysis	3
CJ 310	Criminal Justice Process or	
CJ 312	Criminal Law	3
CE 231	Environmental Criminology	3
		Total Credits: 16.5

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 240	Inorganic Chemistry	3
CHEM 370L	Instrumental Analysis	3
CHEM ELECT	Chemistry Elective	3
S/CJ 316	Principles of Evidence	3
T/RS 122	Theology II: Introduction to Christian Theology	3
		Total Credits: 15

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM ELECT	Chemistry Elective	3
PHIL 210	Ethics	3
PHIL ELECT	Philosophy Elective	
or T/RS ELECT	T/RS Elective	3
HUMN ELECT	Humanities Elective	6
FREE ELECT	Free Elective	3
		Total Credits: 18

4th Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 470/470L	Forensic Chemistry	5
CHEM ELECT	Chemistry Elective	3
HUMN ELECT	Humanities Electives	6
		Total Credits: 14

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