CHEMISTRY

COLLEGE OF ARTS & SCIENCES

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.

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BEST COLLEGES U.S.News & WORLD REPORT NATIONAL UNIVERSITIES 2027

OUTCOMES & OPPORTUNITIES

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THE UNIVERSITY *of* SCRANTON

CHEMISTRY

125.5 Credits

LEARN MORE!

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**	

This is a sample curriculum. Please refer to the Undergraduate Catalog at **scranton.edu/catalog**.

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CHEMISTRY – BUSINESS

COLLEGE OF ARTS & SCIENCES

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THE UNIVERSITY *of* SCRANTON

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

COLLEGE OF ARTS & SCIENCES

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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	4.5
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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09/2026

BIOCHEMISTRY PRE-PROFESSIONAL TRACK

COLLEGE OF ARTS & SCIENCES

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BIOCHEMISTRY PRE-PROFESSIONAL TRACK

122 Credits

LEARN MORE!

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 / **T/RS ELECT**	Philosophy or 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
	Total Credits: **15**	

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FORENSIC CHEMISTRY

COLLEGE OF ARTS & SCIENCES

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THE UNIVERSITY *of* SCRANTON

FORENSIC CHEMISTRY

123.5 Credits

LEARN MORE!

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**	

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**	

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
CJ 231	Environmental Criminology	3
	Total Credits: **16.5**	

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**	

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: 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: 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: 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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