B.A. in Chemistry with a Concentration in Secondary Education

First Semester

CHM 115	Elements & Compounds	3
CHM 113	Elements & Compounds Lab	1
MTH 111	Calculus I	4
ENG 101	English 101	4
FYF 101	First Year Foundations	3
Semester Total		**15**

Second Semester

CHM 116	The Chemical Reaction	3
CHM 114	The Chemical Reaction Lab	1
MTH 112	Calculus II	4
ENG 120	Intro to Lit & Culture	3
CS 125	Computer Science I	4
ED 180	Educational Psychology	3
Semester Total		**18**

Third Semester

CHM 231	Organic Chemistry I	3
CHM 233	Organic Chemistry I Lab	1
PHY 201	Physics I	3
PHY 203	Physics I Lab	1
ED 190	Effective Teaching	3
	Distr. Req. (PSY 101 rec'd)	3
	Distribution Requirement	3
Semester Total		**17**

Fourth Semester

CHM 232	Organic Chemistry II	3
CHM 234	Organic Chemistry II Lab	1
PHY 202	Physics II	3
PHY 202	Physics II Lab	1
CHM 248	Analytical Chemistry	3
CHM 246	Analytical Chemistry Lab	1
MTH 212	Multivariate Calculus	4
Semester Total		**16**

Fifth Semester

CHM 341	Instrumental Analysis	3
CHM 343	Instrumental Analysis Lab	1
CHM 355	Physical Chem./Life Sciences	3
CHM 357	Physical Chem./Life Sci. Lab	1
EDSP 210	Teaching Special Needs	3
	Distribution Requirement	3
	Distribution Requirement	3
Semester Total		**17**

Sixth Semester

CHM 322	Inorganic Chemistry	3
CHM 365	Medical Biochemistry	4
CHM 370	Integrated Chemistry Lab	1
CHM 390	Junior Seminar	1
ED 191	Classroom Technology	3
EDSP 225	Special Ed Methodology	3
Semester Total		**15**

Seventh Semester

CHM 391	Senior Research	2
CHM 371	Integrated Chemistry Lab	1
ED 220	Diverse Learners	3
ED 380	Content Literacy	3
ED 371	Special Methods: Sciences	4
	Distribution Requirement	3
Semester Total		**16**

Eighth Semester

CHM 392	Senior Research	2
EDSP 388	Inclusionary Practices	3
ED 390	Student Teaching	12
Semester Total		**17**
Grand Total		**131**

⇒ Students in the B. A. program must complete 2 credits (total) of Integrated Laboratory (CHM 370/371/372).

Wilkes University Education Department Checklist

Bachelor of Arts-CHEMISTRY
With a Major* or Minor in Secondary Education
2018-2019

Name_____

WIN _____

Advisor_____ Date _____

General Education Requirements

____ FYF 101 (3)

Area I The Humanities (9)

____ ENG 120
____ HST 101
____ PHL 101, PHL 110, or Foreign Language _____

Area II The Scientific World (6) *(met in major)*
(two different sub-areas required)

____ BIO 105 / 121
____ CHM 105 / 115
____ EES 105 / 221 / 230 / 240 / 251
____ PHY 105 / 174 / 201

Area III The Social Sciences (6)

____ ANT 101
____ EC 102
____ PS 111
____ PSY 101 *(required for minor)*
____ SOC 101

Area IV The Visual and Performing Arts (3)

____ ART 101, 140, or 141
____ DAN 100
____ MUS 101
____ THE 100

Skill Requirements

I. Computer Literacy (*met in major)*

____ CS 115 *or* higher _____
or two CI Courses _____ _____

II. Written Communications (Required for certification)

____ ENG 101 (4 credits)

III. Oral Communications (*met in major)*

____ COM *101 or Two OPO Courses*:
____EDSP 225, ED 220, ED 390, CHM 391, CHM 392

IV. Quantitative Reasoning (*met in major)*

____ MTH 101 *or* higher _____

Chemistry Major Requirements†

__ CHM 115	Elements & Compounds	F	(3)
__ CHM 113	Elements & Compounds Lab	F	(1)
__ CHM 116	The Chemical Reaction	S	(3)
__ CHM 114	The Chemical Reaction Lab	S	(1)
__ CHM 231	Organic Chemistry I	F	(3)
__ CHM 233	Organic Chemistry I Lab	F	(1)
__ CHM 234	Organic Chemistry II	S	(3)
__ CHM 234	Organic Chemistry II Lab	S	(1)
__ CHM 248	Analytical Chemistry	S	(3)
__ CHM 246	Analytical Chemistry Lab	S	(1)
__ CHM 322	Inorganic Chemistry	S	(3)
__ CHM 341	Instrumental Analysis	F	(3)
__ CHM 343	Instrumental Analysis Lab	F	(1)
__ CHM 355	Physical Chem for Life Science	F	(3)
__ CHM 357	Physical Chem for Life Sci. Lab	F	(1)
__ CHM 365	Medical Biochemistry	S	(3)
__ CHM 370‡/371‡/372‡	(two credits total)	F,S	(2)
	‡can each be taken for one or two credits		
__ CHM 390	Junior Seminar	S	(1)
__ CHM 391	Senior Research I *(OPO)*	F	(2)
__ CHM 392	Senior Research II *(OPO)*	S	(2)
__ CS 125	Computer Science I	F,S	(4)
__ MTH 111	Calculus I	F,S	(4)
__ MTH 112	Calculus II	F,S	(4)
__ MTH 212	Multivariate Calculus	F,S	(4)
__ PHY 201	General Physics I	F,S	(4)
__ PHY 202	General Physics II	F,S	(4)

† The Chemistry and Math Departments require that students complete prerequisite courses with at least a 2.0 .

Major* and Minor Requirements for Secondary Education Certification

__ ED 180	Educational Psychology		(3)
__ ED 190	Effective Teaching		(3)
__ ED 191	Integrating Technology in Classrooms (C.I.)		(3)
__ ED 220	Tchg Cult & Ling Diverse Learners (OPO)		(3)
__ EDSP 210	Teaching Students with Special Needs		(3)
__ EDSP 225	Special Education Methodology (OPO)		(3)
__ ED 345*	Assessment	F,S	(3)
__ ED 371	Teaching Methods in Science	F	(4)
__ ED375*	Middle Level & Secondary Ed. Methods	S	(4)
__ ED 380	Content Area Literacy	F	(3)
__ EDSP 388	Inclusionary Practs (taken with ED 390)		(3)
__ ED 390	Student Teaching (OPO)		(12)
	total for the minor		40 credits
	*total for the major		47 credits

*Required for major. Completion of major in Secondary Education along with Chemistry major will take additional semester or summer coursework. Completion of the minor can be accomplished in eight semesters

Note: This checklist is from the Education Department for advisement purposes only.