

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

First Semester			Second Semester		
CHM 115	Elements & Compounds	3	CHM 116	The Chemical Reaction	3
CHM 113	Elements & Compounds Lab	1	CHM 114	The Chemical Reaction Lab	1
MTH 111	Calculus I	4	MTH 112	Calculus II	4
ENG 101	English 101	4	ENG 120	Intro to Lit & Culture	3
FYF 101	First Year Foundations	3	CS 125	Computer Science I	4
			ED 180	Educational Psychology	3
Semester Total		15	Semester Total		18
Third Semester			Fourth Semester		
CHM 231	Organic Chemistry I	3	CHM 232	Organic Chemistry II	3
CHM 233	Organic Chemistry I Lab	1	CHM 234	Organic Chemistry II Lab	1
PHY 201	Physics I	4	PHY 202	Physics II	4
ED 190	Effective Teaching	3	CHM 248	Analytical Chemistry	3
	Distr. Req. (PSY 101 rec'd)	3	CHM 246	Analytical Chemistry Lab	1
	Distribution Requirement	3	MTH 212	Multivariate Calculus	4
Semester Total		17	Semester Total		16
Fifth Semester			Sixth Semester		
CHM 341	Instrumental Analysis	3	CHM 322	Inorganic Chemistry	3
CHM 343	Instrumental Analysis Lab	1	CHM 365	Medical Biochemistry	4
CHM 355	Physical Chem./Life Sciences	3	CHM 370	Integrated Chemistry Lab	1
CHM 357	Physical Chem./Life Sci. Lab	1	CHM 390	Junior Seminar	1
EDSP 210	Teaching Special Needs	3	ED 191	Classroom Technology	3
	Distribution Requirement	3	EDSP 225	Special Ed Methodology	3
	Distribution Requirement	3			
Semester Total		17	Semester Total		15
Seventh Semester			Eighth Semester		
CHM 391	Senior Research	2	CHM 392	Senior Research	2
CHM 371	Integrated Chemistry Lab	1	EDSP 388	Inclusionary Practices	3
ED 220	Diverse Learners	3	ED 390	Student Teaching	12
ED 380	Content Literacy	3			
ED 371	Special Methods: Sciences	4			
	Distribution Requirement	3			
Semester Total		16	Semester Total		17
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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
2016-2017

Name _____

WIN _____

Advisor _____ Date _____

Chemistry Major Requirements

- | | |
|--|-----|
| _____ CHM 115 Elements & Compounds | (3) |
| _____ CHM 113 Elements & Compounds Lab | (1) |
| _____ CHM 116 The Chemical Reaction | (3) |
| _____ CHM 114 The Chemical Reaction Lab | (1) |
| _____ CHM 231 Organic Chemistry I | (3) |
| _____ CHM 233 Organic Chemistry I Lab | (1) |
| _____ CHM 232 Organic Chemistry II | (3) |
| _____ CHM 234 Organic Chemistry II Lab | (1) |
| _____ CHM 248 Analytical Chemistry | (3) |
| _____ CHM 246 Analytical Chemistry Lab | (1) |
| _____ CHM 322 Inorganic Chemistry | (3) |
| _____ CHM 341 Instrumental Analysis | (3) |
| _____ CHM 343 Instrumental Analysis Lab | (1) |
| _____ CHM 355 Physical Chemistry for Life Science | (3) |
| _____ CHM 357 Physical Chemistry for Life Sci. Lab | (1) |
| _____ CHM 365 Medical Biochemistry | (3) |
| _____ CHM 370 j/371 j/372 j (two credits total) | (2) |
| jean each be taken for one or two credits | |
| _____ CHM 390 Junior Seminar | (1) |
| _____ CHM 391 Senior Research I (OPO) | (2) |
| _____ CHM 392 Senior Research II (OPO) | (2) |
| _____ CS 125 | (4) |
| _____ MTH 111 | (4) |
| _____ MTH 112 | (4) |
| _____ MTH 212 | (4) |
| _____ PHY 201 | (4) |
| _____ PHY 202 | (4) |

General Education Requirements

_____ FYF 101 (3)

Area I The Humanities (9)

_____ ENG 120

_____ HST 101

_____ PHL 101 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

_____ 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

_____ COM 101 or

Two Education OPO Courses:

_____ EDSP 225, ED 220, ED 390

IV. Quantitative Reasoning (met in major)

_____ MTH 101 or higher _____

Note: The PDE Requires six credits of Mathematics for all Teacher Certification Candidates:

_____ (3 credits) _____

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	Teaching Cult. & Ling. Diverse Learners (OPO)	(3)
_____ EDSP 210	Teaching Students with Special Needs	(3)
_____ EDSP 225	Special Education Methodology (OPO)	(3)
_____ ED 345*	Assessment	(3)
_____ ED 371	Teaching Methods in Science	(4)
_____ ED375*	Middle Level & Secondary Ed. Methods	(4)
_____ ED 380	Content Area Literacy	(3)
_____ EDSP 388	Inclusionary Practices (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