

SCIENCE EDUCATION – Chemistry Concentration
Curriculum Check-sheet
121 Credits

Note to the Student: This check-sheet describes the curricular requirements for both the Bachelor of Science in Natural Sciences with a concentration in Chemistry Education and for the teacher licensing program in science. The courses listed are courses in both areas. All curricular requirements on this check-sheet, along with other programmatic requirements, must be met in order to receive the institutional recommendation for the teaching endorsement. A minimum of 42 credits must be completed in upper-division coursework. **The Teacher Licensing Program is a non-degree program; bachelor degrees in education are not awarded.**

Professional Education Courses – 33 credits

____ EDUC 275* Schooling in the US	3	
____ EDUC 340* Literacy & the Learner	3	
____ EDUC 331* Ed Tech & Assessment	2	
____ EDUC 350 Instruction I	3	
____ EDUC 386 Practicum-Instruction I	1	
____ EDUC 450 Instruction II	4	
____ EDUC 486E Practicum-Instruction II	1	
____ EDUC 460 Methods/Materials Science	4	
____ EDUC 485B Student Teaching-Sec	11	
____ EDUC 493A Seminar: Prof Relations	1	

All University Core Curriculum – 18 credits

____ Written Communication (1A)	3	____ CO150
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Mathematics**

____ MATH 155* Calculus-Bio Sci I (1B)	4 [∞]	
-OR-		
____ MATH160* Calculus-Physical Sci I (1B)4 [∞]		
____ Advanced Writing (2B)	3	

Biological/Physical Sciences (3A)

____ LIFE 102* Attributes of Living Systems4 [∞]		
-AND-		
____ CHEM 111* General Chemistry I	4 [∞]	
-AND-		
____ CHEM 112* General Chemistry I Lab	1 [∞]	

____ Arts and Humanities (3B)	3	
____ Add'l Arts and Humanities (3B)	3	
____ Social/Behavioral Sciences (3C)	3 [∞]	____ EDUC275
____ Historical Perspectives (3D)	3	
____ Global & Cultural Awareness (3E)	3	

Depth & Integration (4A, 4B, 4C)

____ EDUC 485B Student Teaching-Sec	11 [∞]	
____ EDUC 493A Seminar: Prof Relations	1 [∞]	

**Prerequisites for calculus could account for 5 additional credits.

[∞]Requirements met with other required coursework

*Offered Summer Semester

^ΩOffered only Fall Semester

^ΣOffered only Spring Semester

See the back of this check-sheet for important course requirements and advising reminders. → → →

Teaching Concentration (Content) Courses – 70 credits

____ AA 100* Intro to Astronomy	3	
____ AA101* Astronomy Laboratory	1	
-OR-		
____ GEOL 120* Physical Geology	3	
____ GEOL 121* Physical Geology Lab	1	
____ BC 351* Principles of Biochemistry	4	
____ CHEM 473 ^Σ Found of Physical Chem	4	
-OR-		
____ CHEM 474 ^Ω Physical Chemistry I	3	
-AND-		
____ CHEM 475 ^Ω Physical Chemistry Lab	1	
____ CHEM 111* General Chemistry I	4	
____ CHEM 112* General Chemistry I Lab	1	
____ CHEM 113* General Chemistry II	3	
____ CHEM 114* General Chemistry II Lab	1	
____ CHEM 261 ^Σ Fund Inorganic Chemistry	3	
____ CHEM 334 Quant Analysis Lab	1	
____ CHEM 335 Intro Analytical Chemistry	3	
____ CHEM 345 Organic Chemistry I	4	
____ CHEM 346 Organic Chemistry II	4	
-OR-		
____ CHEM 341* Modern Organic Chem I	3	
____ CHEM 343* Modern Organic Chem II	3	
____ CHEM 344* Modern Organic Chem Lab2		
____ LIFE 102* Attributes of Living Systems	4	
____ LIFE 103* Biology of Organisms	4	
____ MATH 155* Calculus-Biological Sci I	4	
____ MATH 255 Calculus Biological Sci II	4	
-OR-		
____ MATH 160* Calculus-Physical Sci I	4	
____ MATH 161* Calculus-Physical Sci II	4	
____ PH 121* General Physics I	5	
____ PH 122 General Physics II	5	
-OR-		
____ PH141* Physics for Sci & Eng I	5	
____ PH 142 Physics for Sci & Eng II	5	
____ STAT 301* Intro to Statistical Methods	3	

Need 5 credits of general science/mathematics electives:

____ Science Electives	_____
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