PROFESSIONAL CHEMIST'S COMPREHENSIVE, BACHELOR OF SCIENCE

Offered by Department of Chemistry (http://catalog.unk.edu/undergraduate/departments-programs/chemistry/)

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<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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General Studies

Foundational Requirements (LOPERs 1-4) 14

Including:

  - LOPER 4: Mathematics, Statistics, and Quantitative Reasoning
    - MATH 115 Calculus I with Analytic Geometry 1

Broad Knowledge Requirements (LOPERs 5-8) 13

Including:

  - LOPER 8: Natural Sciences
    - BIOL 106 Biology II

Dispositional Requirements (LOPERs 9-10) 2

Wellness (LOPER 11) Optional 0

BS Science-related course requirements

MATH 202 Calculus II with Analytic Geometry 5

PHYS 276 General Physics II (Calculus) 4

PHYS 276L General Physics II (Calculus) Laboratory 1

Program Specified Requirements 5

PHYS 275 General Physics I (Calculus)

PHYS 275L General Physics I (Calculus) Laboratory

Major Option

Complete all required courses 60

Unrestricted electives

Needed to reach 120 credit hour minimum 12

Total Credit Hours 120

Major Option

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Chemistry Major Foundation Requirements

CHEM 160 General Chemistry 3

CHEM 160L General Chemistry Laboratory 1

CHEM 161 General Chemistry 3

CHEM 161L General Chemistry Laboratory 1

CHEM 169 Chemistry Foundations and Careers 1

CHEM 301 Analytical Chemistry 3

CHEM 301L Analytical Chemistry Lab 1

CHEM 310 Safety in Chemistry 1

CHEM 351 Biochemistry I 4

CHEM 360 Organic Chemistry 4

CHEM 360L Organic Chemistry Laboratory 1

CHEM 430 Inorganic Chemistry 3

CHEM 480 Physical Chemistry 3

CHEM 490L Advanced Chemistry Laboratory I 2

Chemistry In-Depth Courses

CHEM 352 Biochemistry II 2

CHEM 352L Advanced Biochemistry Lab 2

CHEM 361 Organic Chemistry 4

CHEM 361L Organic Chemistry Laboratory 1

CHEM 469 Advanced Seminar in Chemistry 1

CHEM 475 Instrumental Analysis 3

CHEM 481 Physical Chemistry II 3

CHEM 491L Advanced Chemistry Laboratory II 2

Select 1 credit hour of the following:

CHEM 499L Research in Chemistry 1

Professional Chemist's Supporting Course Requirements

MATH 260 Calculus III 5

Select 5 credit hours of the following:

  - MATH 305 Differential Equations
  - CHEM 300 - CHEM 499L
  - PHYS 300 - PHYS 499
  - MATH 280 Linear Algebra

Total Credit Hours 60

1 Students without sufficient preparation will also need to take the following courses, increasing the total credit hours needed:

  - MATH 102
  - MATH 103

2 Designated courses with the appropriate content may be approved to satisfy one of the Broad Knowledge requirements plus LOPER 9 or Broad Knowledge plus LOPER 10. Courses may be approved to satisfy LOPER 9 or LOPER 10 alone. (Courses satisfying LOPER 9 or LOPER 10 alone must be 3 credit hours.) Students applying this option will need to take additional hours in other categories to meet the required GS hours.