### Chemistry-Biophysical Major Requirements (Bachelor of Science) – Catalog Year 2013

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<th>Hrs</th>
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| 18-22 | - CHEM 1213/1211L Chemistry for Majors I  
         AND  
         - CHEM 1223/1221L Chemistry for Majors II  
         (CHEM 1213/1211L or CHEM 1103/110L)  
         OR  
         - CHEM 1103/1101L University Chemistry I  
         AND  
         - CHEM 1123/1121L University Chemistry II  
         (CHEM 1103, MATH 1203)  
         AND  
         - CHEM 2263/2261L Analytical Chem Lecture  
         (CHEM 1223/1221L or CHEM 1074/1071L, MATH 1203)  
         - CHEM 3504 Physical Chemistry I  
         (CHEM 1123/1121L, PHYS 2074, Pre or Co-req: MATH 2564)  
         OR  
         - CHEM 3514/3512L Physical Chem II (CHEM 3504)  
         OR  
         - CHEM 4213/4211L Instrumental Analysis/Lab |

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| 17-19 | - CHEM 3703/3702L Org Chem I for Majors*  
         (CHEM 1123/1121L)  
         OR  
         - CHEM 3713/3712L Org Chem II for Majors *  
         (CHEM 3703/3702L)  
         *Students can opt to take CHEM 3603/3601L and CHEM 3613/3611L (OrgChem I&II for non majors)  
         OR  
         - CHEM 4853 OR  
         - CHEM 400V and/or CHEM 498V completion of a senior thesis based on independent research where at least 1 credit hour is earned during each of 3 different semesters  
         AND  
         - CHEM 5813 AND - CHEM 5843 OR  
         (same as CHEM 4813H / 4843H)  
         - CHEM 3813 AND - CHEM 4723 |

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| 16 | Math and science requirements:  
      - Mathematics:  
      - MATH 2554C Calculus I  
      - MATH 2564C Calculus II  
      - Physics:  
      - PHYS 2054 University Physics I  
      - PHYS 2074 University Physics II  
      - Biological Sciences  
      To include:  
      - BIOL 1543/1541L Principles of Biology/Lab  
      - BIOL 2533/2531L Cell Biology/Lab  
      - BIOL _____________ (3000+) |

### Electives (to meet the 120 hour minimum Graduation Requirement)

1. No graduation credit is awarded for a world language 1003 course to students continuing with the language in high school (See 2013-2014 Catalog of Studies)

### Requirements for Departmental Honors in Chemistry:

Students with good academic backgrounds and strong interests in research are encouraged to participate in the department of chemistry and biochemistry honors program. Entrance into the program is normally during the sophomore year or the first semester of the junior year, and a minimum cumulative GPA of 3.5 is required. Entrance is initiated by consulting the faculty academic adviser, who will help arrange conferences with potential faculty research project advisers. When there is agreement between the student and the adviser on a research project or area, an Honors Advisory Committee is set up to supervise the honors candidate’s program. The heart of the program is the research project, but students are encouraged to broaden their experience beyond required courses within chemistry, the natural sciences, the social sciences, and the humanities. Participation in Honors Colloquia, honors sections of regular courses, and chemistry departmental and divisional seminars is especially recommended. All honors candidates enroll in the spring semester Honors Seminar (CHEM 4011H), and senior honors students must make at least one seminar presentation. All honors candidates will be required to complete and defend an honors thesis and take 12 hours (which may include 6 hours of thesis) in Honors Studies. The thesis is required in the spring semester of the senior year, followed by an oral presentation. On the basis of these written and oral reports and their evaluation of all aspects of the student’s honor program, the candidate’s Honors Advisory Committee will recommend whether or not the distinction “Chemistry or Biochemistry Scholar Cum Laude” should be awarded. Higher degree distinctions are recommended only in truly exceptional cases and are based upon the whole of the candidate’s program of honors studies.

For more information, contact the Dept of Chemistry/Biochem:
- CHEM 119  
  479-575-4648  
  chemistry.uark.edu

***This form is NOT a substitute for the Catalog of Studies. Students should verify their graduation requirements with their advisor, their degree evaluation, and the Catalog of Studies.

Writing Requirement: Chemistry majors will satisfy the Fulbright College writing requirement by satisfactory completion of the formal research/analytical reports required in Physical Chemistry Laboratory, CHEM 3451L or CHEM 3512L

*Students can opt to take CHEM 4813H / 4843H*