

B.S. CHEMISTRY Major Requirements
Biochemistry Track (ACS Certified) (no minor required)

Name: _____

REQUIRED CHEMISTRY (44 hrs)* (Prerequisites in parentheses)

- _____ CHEM 1450 College Chemistry I #
- _____ CHEM 1451 College Chemistry II (CHEM 1450)
- _____ CHEM 2401 Organic Chemistry I (CHEM 1451)
- _____ CHEM 3411 Organic Chemistry II (CHEM 2401)
- _____ CHEM 3211 Organic Spectroscopy (CHEM 2401; pre or co-req CHEM 3411)
- _____ CHEM 3520 Quantitative Analysis (CHEM 1451)
- _____ CHEM 4450 Physical Chemistry I (CHEM 1451, PHYS 1442, MATH 1497)
- _____ CHEM 4460 Physical Chemistry II (CHEM 1451, PHYS 1442, MATH 1497)
- _____ CHEM 4320 Biochemistry I (CHEM 3411 and BIOL 1440)
- _____ CHEM 4121 Biochemistry Lab (co-req CHEM 4320)
- _____ CHEM 3360 Intermediate Organic Chem. (CHEM 1451) **OR** _____ CHEM 4380 Advanced Inorganic
- _____ CHEM 4335 Biochemistry II (CHEM 4320)
- _____ CHEM 4112 Seminar (pre or co-req CHEM 4450 or 4460) [UD UCA Core: Z]
- _____ CHEM 4V01 Research (minimum of 2 credit hours)

REQUIRED BIOLOGY (16 hrs)

- _____ BIOL 1440 Principals of Biology I ^
- _____ BIOL 1441 Principals of Biology II
- _____ BIOL 2490 Genetics
- _____ BIOL 3420 General Microbiology

REQUIRED MATHEMATICS (12 hrs)

- _____ MATH 1496 Calculus I (MATH 1390, 1392 or MATH 1580)
- _____ MATH 1497 Calculus II (MATH 1496)
- _____ MATH 2471 Calculus III (MATH 1497)

REQUIRED PHYSICS (8 hrs)

- _____ PHYS 1441 University Physics I (MATH 1496)
- _____ PHYS 1442 University Physics II
(PHYS 1441; pre or co-req MATH 1497)

Graduation Requirements for the B.S. Degree in Chemistry include • successful completion of a minimum of 120 hours, which must include 40 hours of upper division courses (3000-4000 level), • General Education (LD Core) requirements, and • UD Core requirements.

This checksheet is to aid students in class planning, but is not meant to replace any eight semester plan or the undergraduate bulletin. For any questions, check the graduation requirements detailed in the Undergraduate Bulletin.

Note: The UCA STEMteach program is now the path to licensure in science education at the undergraduate level. Alternatively, students may complete a Master of Arts in Teaching (MAT) graduate degree after completion of a BS in Chemistry. Contact UCA's Department of Teaching and Learning for more information.

* A "C" or better grade is required for advancement to subsequent courses.

It is recommended that students have taken and passed high school chemistry or have completed CHEM 1301 with a C or better. Prerequisite: ACT mathematics score of at least 21 or corequisite/prerequisite of MATH 1390.

^ Prerequisites: High school chemistry or CHEM 1301 (or above) and a composite ACT score of 21 or higher OR BIOL 1400 (or 1401 or 1402) and CHEM 1301 (or above) both with a grade of C or higher.