

Biochemistry major

Common course work for Pre-Med, Pre-Dentistry, Pre-Pharmacy, and other professional programs. No minor is required.

This course plan exceeds most professional school's entrance requirements; however it gives you the best chance of being accepted and also being successful in the professional program. It is a good idea to keep in contact with the schools to which you plan on applying. If you would like a different major, see your pre-professional advisor.

Fall Semester, Year 1		Hours	Spring Semester, Year 1		Hours
ENGL 1013 ACTS ENGL 1013	Composition I	3	ENGL 1023 ACTS ENGL 1023	Composition II	3
MATH 1043 ACTS MATH 1103	College Algebra	3	MATH 1033 ACTS MATH 1203	Trigonometry	3
CHEM 1121 ACTS CHEM 1414	General Chemistry I Lab	1	CHEM 1113 ACTS CHEM 1424	General Chemistry II	3
CHEM 1103 ACTS CHEM 1414	General Chemistry I	3	CHEM 1131 ACTS CHEM 1424	General Chemistry II Lab	1
BIOL 2041	Principles of Biology I Lab	1	BIOL 2083 ACTS BIOL 1014	Principles of Biology II	3
BIOL 2053	Principles of Biology I *(6)	3	BIOL 2091 ACTS BIOL 1014	Principles of Biology II Lab	1
			*(2)	Social Sciences General Ed Req #1	3
		14	Total		17
Fall Semester, Year 2		Hours	Spring Semester, Year 2		Hours
CHEM 3404	Organic Chemistry I	4		Minor or General Elective	3
	Minor Elective	3	BIOL 3553	Microbiology	3
MATH 2255 ACTS MATH 2405	Calculus I	5	BIOL 3561	Microbiology Lab	1
*(3)	Speech General Ed Req	3	CHEM 3414	Organic Chemistry II	4
			*(5)	History or Gov. General Ed Req	3
Total		15	Total		14
Fall Semester, Year 3		Hours	Spring Semester, Year 3		Hours
PHYS 2203 ACTS PHYS 2014 or PHYS 2313 ACTS PHYS 2034	College Physics I or University Physics I	3 or 3	PHYS 2213 ACTS PHYS 2024 or PHYS 2323 ACTS PHYS 2044	College Physics II or University Physics II	3 or 3
PHYS 2231 ACTS PHYS 2014/2034	Gen & Univ. Physics I Lab	1	PHYS 2241 ACTS PHYS 2024/2044	Gen. & Univ. Physics II Lab	1
BIOL 3354	Genetics	4	BIOL 3363	Cell Biology	3
CHEM 3314	Quantitative Analysis	4	BIOL 3763	Evolution	3
*(2)	Social Sciences General Ed Req #2	3	CHEM 3424	Elements of Physical Chemistry	4
Total		15	Total		14
Fall Semester, Year 4		Hours	Spring Semester, Year 4		Hours
BIOL/CHEM	Biology or Chem Upper Level Elective	3-4		Minor	3
	Minor	3		Minor	3
CHEM 4633	Biochemistry I	3	CHEM 4643	Biochemistry II	3
*(4)	Humanities Gen Ed Req	3	CHEM 4731	Biochemistry Lab	1
*(1)	Fine Arts Apprec. General Ed Req	3	CHEM 4724	Advanced Lab Techniques *(7)	2
				Electives as needed to reach 120 hours	2-6
Total		15-16	Total		14-18

A student with a good math background may elect to take Calculus I as the first college math course. If this is the case, College Algebra and Trigonometry may be waived; however, additional hours may be needed to reach the 120 hours needed for graduation.

Students required to enroll in remedial courses will need to take additional hours per term, or attend summer school.

A minor is required for this major. Any minor may be chosen; however, the most common minors selected for this major are chemistry, natural science, or physics. Some minors may require more than 18 hours. Some minors may be completed with fewer hours since some courses are listed as biology supportive requirements. See the current catalog and your advisor for specific minor requirements.

*(1) Fine Arts Appreciation can be either ART 1053 Art Appreciation (ACTS ARTA 1003) or MUS 1113 Music Appreciation (ACTS MUSC 1003)

*(2) Social Sciences Gen Ed Requirements can be filled with two courses of the following **from two different disciplines:** ANTH 2203 (ACTS ANTH 2013) Cultural Anthropology, CJ 1013 (ACTS CRJU 1023) Introduction to Criminal Justice, ECON 2203 (ACTS ECON 2103) Principles of Macroeconomics, ECON 2213 (ACTS ECON 2203) Principles of Microeconomics, GEOG 2213 (ACTS GEOG 1103) Geography I, GEOG 2223 Geography II, HIST 1013 (HIST 1113) Surv of Civ I, HIST 1023 (ACTS HIST 1123) Survey of Civ II, PSY 1013 (ACTS PSYC 1103) Introduction to Psychology, SOC 2213 (ACTS SOCI 1013) Introduction to Sociology, SWK 1013 Introduction to Social Work. If you are applying to medical school at UAMS and other colleges of medicine, you should take PSY 1013 (ACTS PSYC 1103) Introduction to Psychology, SOC 2213 (ACTS SOCI 1013) Introduction to Sociology to complete your social science electives. These courses will be required courses at most colleges of medicine and material from these courses will be on the MCAT exam. It may be a good idea to take PSY 2203 Statistical Methods as a general elective to help prepare you for material that will be on the new MCAT exams.

*(3) Speech General Ed Requirement can be: COMM 1023 (ACTS SPCH 1003) Public Speaking, COMM 2283 Business and Prof. Speech, or COMM 2203 Interpersonal Communication

*(4) Humanities General Ed. Requirement can be: ENGL 2283 (ACTS ENGL 2113) World Lit I or ENGL 2293 (ACTS ENGL 2123) World Lit II

*(5) History or Government General Ed. Requirement can be: HIST 2213 (ACTS HIST 2113) American History I, HIST 2223 (ACTS HIST 2123) American History II, or PSCI 2213 (ACTS PLSC 2003) American National Government

*(6) The prerequisite to enter Principles of Biology I is a composite ACT = 22 or greater, or completion of BIOL 1063, Introduction to Biological Sciences with a grade of C or higher.

*(7) Advanced Lab Techniques may be replaced with CHEM 4611, Chemistry Seminar; or CHEM 4691, Senior Research; however, additional hours may be needed to reach the 120 minimum.