

Biochemistry

Bachelor of Science

DEGREE PLAN

Common Core for Science 42-44 Hours

CORNERSTONE 1

GNSC 1201	Cornerstone of Science	1
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BIBLICAL LITERACY — SELECT TWO COURSES 6

REL 1013	Old Testament History and Literature	3
REL 1023	New Testament History and Literature	3
REL 3073	Biblical Ethics	3

WRITING AND LITERATURE 6

ENGL 1153	English Composition: Exposition and Argument	3
ENGL 1163	English: Composition and Classical Literature	3

SCIENTIFIC LITERACY — SELECT ONE OPTION 5-7

CHEM 1054	Introduction to Chemistry I	4
and CHEM 1063	Introduction to Chemistry II	3
CHEM 1105	General Chemistry I	5

WELLNESS AND LIFELONG FITNESS 2

PHED	Activity Course	1
PHED 1001	The Wellness Lifestyle (Concepts in Fitness)	1

HISTORY AND LITERATURE — SELECT TWO PAIR 12

ENGL 2013	European Civilization: Literature	3
and HIST 2013	European Civilization: History	3
ENGL 2023	Modern West: Literature	3
and HIST 2023	Modern West: History	3
ENGL 2033	World Civilizations: Literature	3
and HIST 2033	World Civilizations: History	3

FINE ARTS — SELECT ONE COURSE 3

FNAR 2063	Arts and Western Culture	3
FNAR 2163	Arts and Ideas	3

MODERN FOREIGN LANGUAGES & MULTICULTURAL EXPERIENCE † 6

—	Modern Foreign Language Course	3
—	Modern Foreign Language Course	3

CAPSTONE 1

GNSC 4951	Science Capstone	1
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Flex Core 13-14 Hours

CHEM 1115	General Chemistry II	5
MATH 2013	Analytic Geometry and Calculus I	3

SELECT TWO COURSES*

COMS 1092	Introduction to Speech Communication	2
ECON 1203	Introduction to Economics	3
PHIL 1043	Introduction to Philosophy	3
POLI 1223	American National Government	3
PSYC 1223	Introduction to Psychology	3
SOCI 1223	Introduction to Sociology	3

Biochemistry 59 Hours

AREA OF SPECIALIZATION[§] 59

BIOL 4014	Genetics	4
CHEM 3034	Analytical Chemistry	4
CHEM 3054	Biochemistry	4
CHEM 3104	Organic Chemistry I	4
CHEM 3114	Organic Chemistry II	4
CHEM 3703	Applied Mathematics in Advanced Chemistry (PHYS 3703)	3
CHEM 4114	Physical Chemistry/Chemical Physics I (PHYS 4114)	4
CHEM 4603	Advanced Biochemistry	3
CHEM 4652	Biochemical Methods	2
GNSC 1001	Computing for Science I	1
GNSC 3301	Computing for Science II	1
MATH 2023	Analytic Geometry and Calculus II	3
PHYS 2515	University Physics I	5
PHYS 2525	University Physics II	5

SELECT ONE COURSE

BIOL 2034	Plant Biology	4
BIOL 2364	Human Physiology	4

SELECT ONE COURSE

BIOL 2044	Animal Biology	4
BIOL 3274	Microbiology	4

SELECT ONE COURSE

BIOL 4044	Developmental Biology	4
CHEM 4124	Physical Chemistry/Chemical Physics II (PHYS 4124)	4

Electives 11-14 Hours

Courses selected on the basis of student interest in consultation with faculty advisor.

Total Hours

Common Core for Science	42-44
Flex Core	13-14
Biochemistry	59
Electives	11-14

Total hours required for graduation 128

* At least one of the courses in the Flex Core must be Communication or Philosophy

† All students must take two sequential courses of the same language at the appropriate level or an approved Multicultural Experience which includes Modern Foreign Language. For more information on these requirements, visit okbu.edu/catalog/foreign-language.

§ Students majoring in Chemistry-Forensic Emphasis are required to take the Diagnostic Undergraduate Chemistry Knowledge exam.

Students majoring in Biochemistry are required to take the Diagnostic Undergraduate Chemistry Knowledge exam.

No D's will be accepted in the area of concentration and the supportive courses or in courses comprising majors and minors.

Program must include at least 39 hours of courses at the 3000-4000 level.