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LaGrange College

Course Catalog - Biochemistry

B.A. in Biochemistry - B.A. in Biochemistry

Type:Major

Students take the following courses to earn the Bachelor of Arts in Biochemistry:

BIOL 1107, 1108 Principles of Biology	8 semester hours
CHEM 1101, 1102 General Chemistry	8 semester hours
CHEM 3201, 3202 Organic Chemistry	8 semester hours
CHEM 3311 Elements of Physical Chemistry	3 semester hours
CHEM 3371 Junior Seminar	1 semester hour
CHEM 4421, 4422 Biochemistry	8 semester hours
CHEM 4471 Senior Seminar	2 semester hours
MATH 2105 Pre-Calculus	4 semester hours
PHYS 1101, 1102	8 semester hours

B.S. in Biochemistry - B.S. in Biochemistry

Type:Major

Requirements for the Bachelor of Science Degree in Biochemistry

Students earn these competencies by pursuing the following Bachelor of Arts curriculum in Biochemistry:

BIOL 1107, 1108 Principles of Biology	8 semester hours
CHEM 1101, 1102 General Chemistry	8 semester hours
CHEM 3201, 3202 Organic Chemistry	8 semester hours
CHEM 3311 Elements of Physical Chemistry	3 semester hours
CHEM 3371 Junior Seminar	1 semester hour

CHEM 4421, 4422 Biochemistry	8 semester hours
CHEM 4471 Senior Seminar	2 semester hours
MATH 2105 Pre-Calculus	4 semester hours
PHYS 1101, 1102	8 semester hours

In addition, Bachelor of Science Biochemistry majors must take two classes from the following list:

BIOL 3321 Molecular Biology	BIOL 3322 Immunology
BIOL 3372 Molecular Biology	BIOL 3373 Genetics
BIOL 3374 Cell Physiology	BIOL 3376 Virology
CHEM 3351 Analytical Chemistry	CHEM4451 Analytical Chemistry
CHEM3311 Inorganic Chemistry	PSYC 4465 Biological Psychology

Research in Chemistry CHEM4900 may be substituted for one elective with advisor permission.

Total: 57-58 semester hours

Students are urged to seek advisement from a faculty member in the chemistry program prior to or early in their first semester. The **scheduling** of the B.S. curriculum is important, as Elements of Physical Chemistry (CHEM 3311) is offered alternate years.

To be prepared to take Elements of Physical Chemistry sequence, students must complete the mathematics requirements and PHYS1101 prior to the term in their Junior or Senior year that CHEM3311 will be offered. The following is a typical sequence of courses for the B.S. Biochemistry degree:

	Fall	Spring
First Year	General Chemistry I (CHEM1101) Pre-Calculus (MATH 2105)	General Chemistry II (CHEM1102)
Second Year	Organic Chemistry I (CHEM 3201) General Biology I (BIOL 1107)	Organic Chemistry II (CHEM 3202) General Biology II (BIOL 1108)
Third Year	Intro. Physics I (PHYS 1101) Upper level Elective	Intro. Physics II (PHYS 1102) El. Physical Chemistry (CHEM3311) Junior Seminar (CHEM 3371)
Fourth Year	Biochemistry I (CHEM 4421) Upper Level elective	Biochemistry II (CHEM 4422) El. Physical Chemistry (CHEM3311) Senior Seminar (CHEM 4471)

Note that Elements of Physical Chemistry (CHEM3311) is listed twice as it is offered in alternating years. PHYS1101 must be completed prior to taking CHEM3311.

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LaGrange College

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