BIOCHEMISTRY

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BACHELOR OF SCIENCE

Requirements apply to students entering 2003 and later. At least 124 hrs. (45 Junior/Senior hrs.) must be completed for graduation. Double majors must complete at least 15 hrs. unique to each major.

I. General College Requirements (33 hrs):

English (9 hrs.): ENGL 101 ___; ENGL 102 (or 105) ___; ENGL 203 (or 205, 209, 210, 211) ___
Oral Communication/Logic (3 hrs.): COMS 130/230, PHIL 148/310, ***OR*** Exemption/Examination ___
Western Civilization (6 hrs.): HWC 204 (or 114) ___ and HWC 205 (or 115) ___
Principal Course and/or Foreign Language Requirements
(No more than one course from each topical subgroup from the principal course list can be applied toward fulfillment of this requirement. See Undergraduate Catalog and Timetable for list of principal courses and topical subgroups.):
Social Science (3 hrs.) _____; ***Humanities (3 hrs.)*** _____; and three additional courses in foreign language, social sciences, or humanities: _____, _____, _____.

II. General Science Requirements (44-45 hrs):

_____ CHEM 184 Foundations of Chemistry I (5 hrs.)
_____ CHEM 188 Foundations of Chemistry II (5 hrs.)
_____ CHEM 516 Analytical Chemistry (3 hrs.)
_____ CHEM 624 Organic Chem. I (3 hrs.)
_____ CHEM 625 Organic Chem. I lab (2 hrs.)
_____ CHEM 626 Organic Chem. II (3 hrs.)
_____ CHEM 627 Organic Chem. II lab (2 hrs.)
_____ CHEM 640 Biol. Physical Chem. (3 hrs.) ***OR***
CHEM 646 Physical Chem. (4 hrs.)
_____ MATH 121 & MATH 122 Calculus I & II (10 hrs.)
_____ PHSX 211 & PHSX 212 Gen. Physics I & II (8 hrs.) ***OR***
PHSX 114 & PHSX 115 College Physics I & II (8 hrs.)

III. Biochemistry Requirements (25 hrs.):

_____ BIOL 150 (or 151, Honors) Principles of Molecular & Cellular Biology (4 hrs.)
_____ BIOL 152 (or 153, Honors) Principles of Organismal Biology (4 hrs.)
_____ BIOL 350 Principles of Genetics (3 hrs.)
_____ BIOL 636 Biochemistry I (3 hrs.)
_____ BIOL 637 Introductory Biochemistry Laboratory (2 hrs.)
_____ BIOL 638 Biochemistry II (3 hrs.)
_____ BIOL 639 Advanced Biochemistry Laboratory (2 hrs.)
_____ BIOL 672 Gene Expression (3 hrs.)
_____ BIOL 599 Senior Seminar in Biochemistry (1 hr.)
(must be taken in senior year)

IV. Elective Requirements (12 hrs.):

Biology courses, numbered 400 or higher, must be selected in consultation with a Biochemistry advisor. Some suggested courses are:

BIOL 400 Fundamentals of Microbiology
BIOL 408 Physiology of Organisms
BIOL 416 Cell Structure & Function
BIOL 424 Independent Study
BIOL 430 Laboratory in Molecular Biology
BIOL 518 Microbial Genetics
BIOL 688 Molecular Biology of Cancer

or biology courses having a biochemistry course as a prerequisite.
No more than 3 hrs. of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement.

BIOL _____ (____ hrs.)

BIOL _____ (____ hrs.)

BIOL _____ (____ hrs.)

BIOL _____ (____ hrs.)

BIOL _____ (____ hrs.)