

MOLECULAR BIOSCIENCES

BACHELOR OF SCIENCE

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, 362) ___

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 (34 hrs.):

_____ CHEM 184 Foundations of Chemistry I (5 hrs.)

_____ CHEM 188 Foundations of Chemistry II (5 hrs.)

_____ CHEM 624 Organic Chemistry I (3 hrs.)

_____ CHEM 625 Organic Chemistry I lab (2 hrs.)

_____ CHEM 626 Organic Chemistry II (3 hrs.)

_____ CHEM 627 Organic Chemistry II lab (2 hrs.)

_____ MATH 115 Calculus I (3 hrs.) **OR**

MATH 121 Calculus I (5 hrs.)

_____ BIOL 570 Statistics (3 hrs.) **OR**

MATH 365 (3 hrs.) **OR** PSYC 300 (3 hrs.)

_____ PHSX 114 & PHSX 115 Coll. Physics I & II (8 hrs.) **OR**

PHSX 211 & PHSX 212 General Physics I & II (8 hrs.)

III. Molecular Biosciences 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 400 Fundamentals of Microbiology (3 hrs.)

_____ BIOL 402 Fundamentals of Microbiology Lab (2 hrs.)

_____ BIOL 405 Laboratory in Genetics (2 hrs.)

_____ BIOL 416 Cell Structure and Function (3 hrs.)

_____ BIOL 600 Introductory Biochemistry (4 hrs.)

IV. General Biology Electives, Seminar and Laboratory Requirements (15 hrs.):

BIOL courses numbered 400 or higher, including at least 3 hrs. of lab credit and 2 hrs. of a seminar/topics course (BIOL 419, 420, 701). 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 with no more than 2 hours of BIOL 424 being applied towards the laboratory requirement.

BIOL _____ (____ hrs.)

BIOL _____ (____ hrs.)

BIOL _____ (____ hrs.)

BIOL _____ (____ hrs.)

BIOL _____ (____ lab hrs.)

BIOL _____ (____ lab hrs.)

BIOL _____ (____ seminar hrs.)