

BIOLOGICAL SCIENCES

JCJC CURRICULUM SHEET

The sample program of study below leads toward a Bachelor of Arts or a Bachelor of Science degree in an area of Biology and may be used for preparation for teacher certification. This program also meets premedical and pre dental requirements.

FRESHMAN YEAR

ENGLISH COMPOSITION (6 HRS)

ENG 1113 English Comp. I 3
ENG 1123 English Comp. II 3

HISTORY (Select in sequence 6 HRS)

HIS 1113 Western Civ. I 3
HIS 1123 Western Civ. II 3
HIS 2213 American History I 3
HIS 2223 American History II 3

SOCIAL SCIENCE (6 HRS)

PSY 1513 General Psychology 3
SOC 2113 Sociology 3

MATH (6-11 HRS)

MAT 1313 College Algebra 3
MAT 1323 Trigonometry 3
MAT 1815 Calculus I* 5
See Math note over.

BIOLOGICAL LAB SCIENCE (8-12 HRS)

BIO 1134 Gen. Biology I - USM 4
BIO 1144 Gen. Biology II - USM 4
BIO 2414 Zoology I - UM 4
BIO 2424 Zoology II - UM 4
BIO 1314 Botany - USM/MSU 4

PHYSICAL LAB SCIENCE (8 HRS)

CHE 1214 General Chemistry I 4
CHE 1224 General Chemistry II 4

FOREIGN LANGUAGE* UM/MSU

Foreign Lang. (French/Spanish) 3
Foreign Lang. (French/Spanish) 3
**See Foreign Language Note over.*

SOPHOMORE YEAR

LITERATURE (6 HRS)

ENG 2413 World Literature (USM) 3
ENG 2323 English Literature I 3
ENG 2333 English Literature II 3

HUMANITIES (3 HRS) - UM

PHI 2113 Intro. to Philosophy 3

FINE ARTS (3 HRS)

ART 1113 Art Appreciation or
MUS 1113 Music Appreciation 3

MATH (5 HRS)

MAT 1815 Calculus I 5
See Math note over

COMPUTER SCIENCE (3-6 HRS)

CSC 1113 Computer Concepts 3
CSC 1613 Intro. Programming I USM 3

PHYSICAL LAB SCIENCE (16 HRS)

CHE 2424 Organic Chemistry I 4
CHE 2434 Org. Chem. II 4
PHY 2414 Physics I 4
PHY 2424 Physics II 4

**Two courses in each area, organic chem and physics, are usually required. See Physical Lab Sciences Notes over.*

SPEECH (3 HRS)

SPT 1113 Speech 3

HEALTH (3 HRS) USM

HPR 1213 Health 3

FOREIGN LANGUAGE UM/MSU

Foreign Lang. (French/Spanish) 3
Foreign Lang. (French/Spanish) 3

BIOLOGICAL SCIENCES -- NOTES:

Foreign Language Note: UM requires a minimum of two semesters of a foreign language at the sophomore level. Most students do not have sufficient preparation to begin at the sophomore level; therefore, they enroll in the first level of the language. Due to the number of courses in the freshman and sophomore years, many students will postpone the foreign language requirement and schedule the language for the junior and senior years.

Math Note: For a Bachelors Degree in Biology, USM requires Calculus Competency. UM & MSU do not require Calculus for the Bachelors Degree in Biology, though Calculus is highly recommended by advisors.

Physical Lab Sciences Note: Most BS programs require a minimum of one semester of organic chemistry or physics. The BA programs in biological sciences frequently have variations in their requirements for organic chemistry and physics. The student should consult the catalog of the senior institution where he/she will continue either the BS or BA degree in biology. UM requires organic chemistry and recommends two semesters of physics. USM and MSU require two courses in each area: organic chemistry and physics.

Students without an adequate high school math background, which includes a minimum of Algebra II, should enroll in a preparatory math course, such as Basic Math, Beginning Algebra or Intermediate Algebra, prior to College Algebra. Preparatory math courses will not transfer to other institutions.

Students should plan to complete no more than half of the hours required for a bachelor's degree prior to transferring to the senior institution. The student should consult the catalog of the senior institution for specific admissions procedures and other details concerning the program of study.

This CHECK SHEET should be used to keep a careful record of grades for each of the courses and should be presented to the student's advisor for planning the schedule of courses each semester at JCJC.