

**MATH****JCJC CURRICULUM SHEET**

The sample program of study illustrated leads to a bachelor of science in Mathematics. A bachelor of arts degree in Math may be followed and used for preparation for teacher certification or for satisfying premedical and pre dental requirements when two courses in Zoology and Organic Chemistry are added.

The B.A. degree has a stronger liberal arts emphasis, permitting the student to include a greater number of courses in the humanities, fine arts, and social sciences.

**FRESHMAN YEAR****ENGLISH COMPOSITION (6 HRS)**

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

**HISTORY (Select 6 HRS)**

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

**BEHAVIORAL/SOCIAL SCIENCES (6 HRS)\***

+PSY 1513 General Psychology 3  
SOC 2113 Sociology 3

*\*UM requires 2 courses in one area; there is a follow up on all suggested courses.  
+required for certification*

**FINE ARTS (3 HRS)**

ART 1113 Art Appreciation **or**  
MUS 1113 Music Appreciation 3

**MATH (11 HRS)**

MAT 1313 College Algebra 3  
MAT 1323 Trigonometry 3  
MAT 1815 Calculus I 5

**PHYSICAL LAB SCIENCE (8-12 HRS)**

BIO 1134 General Biology I+ 4  
CHE 1214 General Chemistry I 4  
CHE 1224 General Chemistry II 4

*+required for certification*

**FOREIGN LANGUAGE (6 HRS) UM/MSU**

*\*See note over.*  
Foreign Lang. (French/Spanish) 3  
Foreign Lang. (French/Spanish) 3

**HEALTH (3 HRS) USM**

HPR 1213 Health 3

**SOPHOMORE YEAR****LITERATURE (Select 6 HRS)**

ENG 2413 World Literature 3  
ENG 2323 English Lit. I 3  
ENG 2333 English Lit. II 3

**HUMANITIES (3 HRS) UM**

PHI 2113 Philosophy 3

**BEHAVIORAL/SOCIAL SCIENCE (Select 6 HRS)\***

PSC 1113 Am. Nat. Government 3  
PSC 1123 State & Local Gov. 3  
ECO 2113 Economics I 3

*\*UM requires 2 courses in one area; there is a follow-up on all suggested courses.*

**MATH (5-15 HRS)**

MAT 1825 Calculus II 5  
MAT 2813 Calculus III 3  
MAT 2913 Diff. Equa. 3

**COMPUTER SCIENCE (3-6 HRS)**

CSC 1113 Computer Concepts 3  
CSC 1613 Computer Program. I 3

**PHYSICAL LAB SCIENCE (10 HRS)**

PHY 2515 Physics IA\* 5  
PHY 2525 Physics IIA 5

*\*See note over.*

**SPEECH (3 HRS)**

SPT 1113 Speech 3

**FOREIGN LANGUAGE (6 HRS)**

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

6/06

**MATH -- NOTES:**

Students should consult closely with their advisor and the catalog of the senior institution concerning details of the Math curriculum.

A non calculus-based physics sequence is available; the student should consult with an advisor to determine if this alternate sequence is appropriate. Professional programs in Math usually specify calculus-based physics. Math Education may permit either in some senior institutions.

Foreign Language is not required in some senior institutions. Spanish may not always be acceptable.

Social and Behavioral Science requirements vary according to the institution and degree program. A minimum of 6 semester hours is usually required as part of a core curriculum. Note that UM requires for the B.S. two, two-course sequences, each sequence in a single social/behavioral science. There are second courses at JCJC in each of the listed courses over which satisfy this requirement.

Senior institutions offer training in the field of mathematics leading to the degree of Bachelor of Arts or Bachelor of Science. The BA program is for those who want a general liberal arts degree with a major in mathematics. Those interested in graduate study in applied mathematics or in industrial employment are advised to elect the BS degree. Students wishing to obtain a mathematics secondary teaching certificate may do so within either program.

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.