Murray State College
Tishomingo and Ardmore

Computer Science

PROGRAM REQUIREMENTS

Credit Hours

GENERAL EDUCATION..38

EFFECTIVE COMMUNICATION (6 hours)
ENG 1113 English Composition I 3
ENG 1213 English Composition II 3

HISTORY & POLITICAL AWARENESS (6 hours)
HST 1483 US History to 1877 (or) 3
HST 1493 US History since 1877
GVT 1113 American Federal Government.............3

MATH & QUANTITATIVE REASONING (3 hours)
MTH 1513 College Algebra (or) 3
    MTH 1413 Survey of Math

SCIENTIFIC REASONING (8 hours)
PHS 1114 General Physical Science 4
BIO 1114 General Biology......................................4

HUMANITIES (6 hours)
Any course with a HUM prefix 3
Any Area 4 course from college catalog.................3

LIBERAL ARTS & GLOBAL AWARENESS (3 hours)
ECO 2113 Principles of Macroeconomics 3

ARTS & SCIENCES (3 hours)
BC 2113 Business Communications 3

COMPUTER PROFICIENCY (3 hours)
CIS 1113 Computer Applications (or)....................3
    Demonstrated Proficiency

ACADEMIC SUCCESS (1 hour, if applicable)
ORI 1011 New Student Orientation ....(1)

PROGRAM CORE REQUIREMENTS.......................12
MTH 1613 Plane Trigonometry 3
CS 1313 Logic & Problem Solving 3
CIS 1533 Intro Visual Basic...................................3
CIS 2223 Systems Analysis 3
Substitutions may be made with prior departmental approval.

RECOMMENDED PROGRAM ELECTIVES..............12
CIS 1653 Data Comm & Network Fund 3
CIS 2173 Object Oriented Programming................3
CIS 2183 Intro to JAVA 3
CIS 2213 Database Mgmt Systems 3
CS 2163 C++ Programming 3
MTH 2215 Calculus w/Analytic Geometry 3
    (highly recommended for this degree)
MTH 2315 Calculus II w/Analytic Geometry 3

TOTAL CREDIT HOURS 62

HEALTH, WELLNESS, & HUMAN PERFORMANCE
HWP Personal Health, First Aid, or Activity 2
    Courses (i.e., Swimming, Bowling, Golf, Tennis,
    Dance, Weight Training, Walking/Jogging,
    Women's Fitness, etc.).

MSC TOTAL CREDIT HOURS REQUIRED...............64

SUGGESTED COURSE SEQUENCE

Credit Hours

FIRST SEMESTER   17
ORI 1011 New Student Orientation 1
HST 1483 US History to 1877 (or)......................3
HST 1493 US History since 1877
CIS 1113 Computer Applications........................3
    (or displayed proficiency)
ENG 1113 English Comp I...................................3
*MTH 1513 College Algebra (or) 3
    MTH 1413 Survey of Math
PHS 1114 Gen Phys Science 4

SECOND SEMESTER   18
ENG 1213 English Comp II 3
BIO 1114 Gen Biology 4
HWP 1112 Personal Health (or) 2
    HWP 2212 First Aid
CS 1313 Logic & Problem Solving..................... 3
Humanities Elective 3
BC 2113 Business Communications 3

THIRD SEMESTER   15
CIS 1533 Intro Visual Basic................................ 3
*MTH 1613 Plane Trigonometry 3
Humanities Elective 3
Recommended Program Elective 3
Recommended Program Elective 3

FOURTH SEMESTER   15
CIS 2223 Systems Analysis 3
GVT 1113 American Federal Government......... 3
ECO 2113 Principles of Macroeconomics.......... 3
Recommended Program Elective.................... 3
Recommended Program Elective.................... 3

*Note: MTH 1513 must be taken before MTH 1613; if a student takes MTH 1413, they must still take MTH 1513 before proceeding with the rest of the CS degree math course requirements.

This is a suggested course sequence only. Students may, with guidance from an Academic Advisor as well as a Faculty Advisor, make changes to their specific course sequence. The student should be aware that changes may result in more than four semesters to complete their desired Associates Degree.

PROGRAM OVERVIEW

This curriculum is intended for students interested in traditional computer science. The program is designed to provide sound instruction and a firm foundation for students who will transfer to a four-year college or university. Students are exposed to fundamental computer concepts, various computer applications, hardware, software (both operating systems and languages), and more. Substantial "hands-on" practical experience in all topics is required.

CAREER OPPORTUNITIES

- Programmer Analyst
- Software Development Manager
- Web Developer
- Application Support Technician

GENERAL COLLEGE PREPARATORY REQUIREMENTS

MSC evaluates students for placement into either transitional or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Centers at MSC Tishomingo or UCSO Ardmore. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

MTH 0103 Introductory Math	MTH 0303 Beginning Algebra	MTH 0403 Intermediate Algebra	ENG 0303 Basic English I
ENG 0103 Reading I	ENG 0403 Basic English II	SCI 0103 Basic Science	2015-2016 Catalog