

**Murray State College**  
Tishomingo and Ardmore

**Mathematics**

**PROGRAM REQUIREMENTS**

	<b>Credit Hours</b>
<b>GENERAL EDUCATION</b> .....	<b>39</b>
<b>EFFECTIVE COMMUNICATION (6 hours)</b>	
ENG 1113 English Composition I .....	3
ENG 1213 English Composition II .....	3
<b>HISTORY &amp; POLITICAL AWARENESS (6 hours)</b>	
HST 1483 US History to 1877 (or) .....	3
HST 1493 US History since 1877	
GVT 1113 American Federal Government .....	3
<b>MATH &amp; QUANTITATIVE REASONING (3 hours)</b>	
MTH 1513 College Algebra .....	3
<b>SCIENTIFIC REASONING (9 hours)</b>	
PHY 2015 Engineering Physics I .....	5
BIO 1114 General Biology (or) .....	4
Any Area 3 course from college catalog	
<b>HUMANITIES (6 hours)</b>	
Any course with a HUM prefix .....	3
Any Area 4 course from college catalog.....	3
<b>LIBERAL ARTS &amp; GLOBAL AWARENESS (3 hours)</b>	
PSY 1113 Introductory Psychology (or) .....	3
Any Area 6 course from college catalog	
<b>ARTS &amp; SCIENCES (3 hours)</b>	
MTH 1613 Plane Trigonometry .....	3
<b>COMPUTER PROFICIENCY (3 hours)</b>	
CIS 1113 Computer Applications (or) .....	3
Demonstrated Proficiency	
<b>ACADEMIC SUCCESS (1 hour, if applicable)*</b>	
COL1211/1211L Success Strategies.....	(1)

\*All first-time, full-time freshmen students seeking a degree or certificate are required to enroll in Success Strategies and the New Student Symposium.

<b>PROGRAM CORE REQUIREMENTS</b> .....	<b>18</b>
MTH 2215 Calculus I w/Analytic Geometry .....	5
MTH 2315 Calculus II w/Analytic Geometry .....	5
PHY 2115 Engineering Physics II .....	5
CS 1313 Logic and Problem Solving.....	3
*Substitutions may be made with prior division approval.	
<b>RECOMMENDED PROGRAM ELECTIVES</b> .....	<b>3</b>
CS 2113 Programming in BASIC (or).....	3
CS 2123 Pascal Programming	
<b>TOTAL CREDIT HOURS</b> .....	<b>60</b>
<b>HEALTH, WELLNESS, &amp; HUMAN PERFORMANCE</b>	
HWP Personal Health, First Aid, or Activity .....	2
Courses (i.e., Swimming, Bowling, Golf, Tennis, Dance, Weight Training, Walking/Jogging, Women’s Fitness, etc.)	
<b>MSC TOTAL CREDIT HOURS REQUIRED</b> .....	<b>62</b>

**SUGGESTED COURSE SEQUENCE**

	<b>Credit Hours</b>
<b>FIRST SEMESTER</b> .....	
COL 1211/1211L Success Strategies*.....	1
ENG 1113 English Comp I.....	3
MTH 1513 College Algebra .....	3
PSY 1113 Introductory Psychology .....	3
CIS 1113 Computer Applications.....	3
HWP 1112 Personal Health (or) .....	2
Any approved HWP course	
<b>SECOND SEMESTER</b> .....	
ENG 1213 English Comp II.....	3
MTH 1613 Plane Trigonometry.....	3
Humanities Elective .....	3
CS 1313 Logic and Problem Solving .....	3
CHM 1114 General Chemistry I (or) .....	4
Other Scientific Reasoning course	
<b>THIRD SEMESTER</b> .....	
MTH 2215 Calculus I w/Analytic Geometry .....	5
PHY 2015 Engineering Physics I .....	5
HST 1483 US History to 1877 (or) .....	3
HST 1493 US History since 1877	
GVT 1113 American Federal Government.....	3
<b>FOURTH SEMESTER</b> .....	
MTH 2315 Calculus II w/Analytic Geometry .....	5
PHY 2115 Engineering Physics II.....	5
Humanities Elective .....	3
CS 2113 Programming in BASIC (or) .....	3
Other programming course	

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**

The recommended curriculum satisfies degree requirements and includes courses that are usually completed in the first two years of a four-year degree program. It is advised that students interested in transferring to a four-year college or university consult with an academic advisor from that school to ensure transferability.

The mathematics curriculum, in general, is designed to prepare graduates for transfer to a regional or comprehensive university.

**CAREER OPPORTUNITIES**

- Actuarial Science
- Operations Research
- Applied Mathematics
- Statistics
- Mathematical Biology
- Mathematics Teacher
- Banking
- Research Mathematics
- Biomathematics
- Cryptography

**GENERAL COLLEGE PREPARATORY REQUIREMENTS**

Students may be required to complete transitional courses in English and/or math prior to being admitted into college level courses. Academic placement is determined either by ACT results or placement exams.