## DEGREE MAP

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites, and presumes a fall start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Program Name: Mathematics-Associate of Science Degree

## Location(s) Offered:

Sierra Vista Campus

Learning Outcomes: Students who successfully complete this program will be able to do the following:

1. Demonstrate an understanding of mathematical algorithms, definitions, and theorems in solving problems.
2. Create, use, and analyze graphical representations of mathematical ideas.
3. Write mathematical arguments using appropriate language, logic, and symbols.

Course or program prerequisite(s) not included in the degree:
ENG 101 Composition requires appropriate English placement score (or see advisor).
MAT 220 Calculus I requires appropriate mathematics placement score (or see advisor), MAT 187 Precalculus, or both MAT 151
Precalculus Algebra and MAT 182 Precalculus Trigonometry.
PHY 230 Physics with Calculus I requires PHY 111 General Physics I or one year of high school physics.
This program requires RDG 122 Reading Critically or exemption.

Program Reviewed: Feb 22, 2016

[^0]| Requirements | Course(s) Recommended | Delivery <br> Method | Credits |
| :---: | :---: | :---: | :---: |
| First Semester (Fall): |  |  |  |
| Core Curriculum | CIS 130 Programming Logic | F2F,VC | 3 |
| General Education-Add Math/Lab Sci* | PHY 111 General Physics I or add math/lab sciences | F2F | 3-4 |
| General Education-Composition | ENG 101 Composition | F2F,VC | 3 |
| General Education-Mathematics | MAT 220 Calculus I or higher | F2F,VC | 3-5 |
| Elective**** |  | F2F,VC | 3-4 |
|  |  |  |  |
|  |  |  |  |
| Second Semester (Spring): |  |  |  |
| Core Curriculum | MAT 227 Discrete Mathematics | F2F | 3 |
| Core Curriculum | MAT 231 Calculus II | F2F | 4 |
| General Education-Composition | ENG 102 English Composition | F2F,VC | 3 |
| General Education-Humanities |  | F2F,VC | 3 |
| General Education-Social \& Beh Sciences |  | F2F,VC | 3 |
|  |  |  |  |
|  |  |  |  |
| Third Semester (Fall): |  |  |  |
| Core Curriculum | CIS 204 C Programming or CIS 208 Java Programming** | F2F | 4 |
| Core Curriculum | MAT 241 Calculus III | F2F | 4 |
| General Education-Add Math/Lab Sci* |  | F2F | 3-4 |
| General Education-Lab Sciences | PHY 230 Physics with Calculus I | F2F | 4 |
|  |  |  |  |
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| Fourth Semester (Spring): |  |  |  |
| Core Curriculum | MAT 252 Linear Algebra or MAT 262 Differential Equations*** | F2F | 3 |
| General Education-Arts |  | F2F,VC | 3 |
| General Education-Lab Sciences | PHY 231 Physics with Calculus II | F2F | 4 |
| General Education-Social \& Beh Sciences |  | F2F,VC | 3 |
| Elective ${ }^{* * * *}$ |  | F2F,VC | 0-5 |
|  |  |  |  |
|  |  |  |  |
| Total credits required: |  |  | 64 |

## Notes:

Six credits of arts, humanities, or social and behavioral sciences must be chosen for the current listing of intensive writing courses. See www.cochise.edu.AGEC.
*Based on your major and after consulting with an advisor, select PHY III and/or additional mathematics/laboratory science course(s). See www.aztransfer.com/cgi-bin/WebObjects/agecweb.woa for a complete list.
${ }^{* *}$ After consulting with an advisor in the computer science department, select CIS 204 or CIS 208.
***After consulting with an advisor in the mathematics department, select MAT 252 or MAT 262.
****Elective courses must be transferable to the university or universities to which the student plans to transfer. See www.aztransfer.com.


[^0]:    Key:
    IW=Intensive Writing
    F2F=Face-to-Face Instruction
    ITV=Instructional Television
    VC=Virtual Campus/Online

