

## 6 "G' ]b' AUh \Y a Uh]Wg' !' D i fY' AUh \Y a Uh]Wg' 9 a d \Ug]g' &\$&%!&&

|  | Course            | Title                          | Cr.       | When  | Prerequisites                                 |
|--|-------------------|--------------------------------|-----------|---|---|
| Required GE Course   | Quantitative Lit. | MATH 1210 - Calculus I         | 4         | F/S/SU  | MATH 1050 & 1060 or ACT 26+                   |
| Other GE courses are required to graduate with a Bachelor's Degree from SUU. |                   |                                |           |   |   |
| Math Core Courses  | MATH 1220         | Calculus II                    | 4         | F/S/SU  | MATH 1210                                     |
|  | MATH 2210         | Calculus III                   | 4         | F/S/SU  | MATH 1220                                     |
|  | MATH 2270         | Linear Algebra                 | 3         | F/S/SU  | MATH 1220                                     |
|  | MATH 2280         | Differential Equations         | 3         | S   | MATH 1220 & 2270**                            |
|  | MATH 3120         | Transition to Advanced Math    | 3         | F/S   | MATH 1220 & MATH 2270                         |
|  | MATH 3250         | Complex Variables              | 3         | S-ODD   | MATH 2210                                     |
|  | MATH 3700         | Probability and Statistics     | 4         | F/S/SU  | MATH 1220                                     |
|  | MATH 4220         | Abstract Algebra I             | 3         | F   | MATH 3120                                     |
| Choose 1 Advanced Class  | MATH 4230         | Abstract Algebra II            | 3         | S-EVEN  | MATH 4220                                     |
|  | MATH 4410         | Advanced Calculus II           | 3         | S-ODD   | MATH 4400                                     |
| Choose 1 Programming Class   | CS 1400           | Fundamentals of Programming    | 3         | F/S   | CSIS 1030 or MATH 1050 or Permis.             |
|  | CS 1410           | Object Oriented Programming    | 3         | F/S/SU  | CS 1400                                       |
| Math Elective Credits (15 total credits required)                            | MATH 3130         | Modern Geometries              | 3         | S   | MATH 3120                                     |
|  | MATH 3160         | Number Theory                  | 3         | F-ODD   | MATH 3120                                     |
|  | MATH 3500         | MActuarial Mathematics         | 3         | S-EVEN  | MATH 1100 or MATH 1210                        |
|  | MATH 3600         | Numerical Analysis             | 3         | S-EVEN  | MATH 2250 or 2280 & comp. knowledge           |
|  | MATH 3770         | Mathematical Modeling          | 3         | S-ODD   | MATH 3700                                     |
|  | MATH 3800         | Partial Differential Equations | 3         | F-ODD   | MATH 2210 and 2250 or 2280                    |
|  | MATH 3990         | Undergraduate Research         | 1-3       | As Needed                                     | Instructor Permission; may repeat up to 5 cr. |
|  | MATH 4230         | Abstract Algebra II            | 3         | S-EVEN  | MATH 4220                                     |
|  | MATH 4340         | Topology                       | 3         | F-EVEN  | MATH 3120                                     |
|  | MATH 4410         | Advanced Calculus II           | 3         | S-ODD   | MATH 4400                                     |
| MATH 4700  | Special Topics    | 1-3                            | As Needed | Instructor Permission; may repeat up to 5 cr. |   |

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In addition to the above-listed requirements, to complete a Bachelor's Degree at SUU, students must have a total of 40 upper-division credits, and 120 credits total. Pure Math majors may need an additional 5-9 upper-division credits, and 30 or more free elective credits to meet both of those requirements.

\* PHYS 2210/2215 is the recommended Physical Science GE course for students seeking advanced degrees in mathematics.

\*\* Can be taken concurrently