## Template for CAA students earning an AS degree who are interested in Mathematics

at Winston-Salem State University
Part I: Complete the AS degree within the NCCCS as outlined.

Any program/major courses that satisfy the Universal General Education Transfer Component
will be noted in the column "Required or Preferred by Major" up to the limits of each category.

## Universal General Education Transfer Component (UGETC)

| English Composition (6 SCH) |  |  |  | The following two English composition courses are required. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Prefix | Course Name | Credit Hours | Pre-requisites | University Course Equivalent | Credit <br> Hours | Required or Preferred by Major | Notes |
| ENG 111 | Expository Writing | 3 | None | ENG 1301 | 3 |  |  |
| ENG 112 | Argument-Based Research | ENG 111 |  | ELEC 1100 | 3 |  | Counts as GE hours |
| Total Credit Hours Required |  |  |  | , |  |  |  |
| Humanities/Fine Arts (6 SCH) |  |  |  | Students will select two courses from at least two different disciplines: |  |  |  |
| Prefix | Course Name | Credit Hours | Pre-requisites | University Course Equivalent | Credit Hours | Required or Preferred by Major | Notes |
| ART 111 | Art Appreciation | 3 | None | ART 1301 | 3 |  |  |
| ART 114 | Art History Survey I | 3 | None | ART 2301 | 3 |  |  |
| ART 115 | Art History Survey II | 3 | None | ART 2302 | 3 |  |  |
| COM 231 | Public Speaking | 3 | None | SPH 2341 | 3 |  |  |
| ENG 231 | American Literature I | 3 | None | ENG 2313 | 3 |  |  |
| ENG 232 | American Literature II | 3 | None | ENG 2314 | 3 |  |  |
| MUS 110 | Music Appreciation | 3 | None | MUS 1301 | 3 |  |  |




| Prefix | Course Name | Credit Hours | Pre-requisites | University Course Equivalent | Credit <br> Hours | Category | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MAT 272 | Calculus II | 3 |  | MAT 2318 | 3 | x |  |
| MAT 280 | Linear Algebra | 3 |  | MAT 2316 | 3 | x |  |
|  | Take 6 hours of GE courses |  |  |  | 6 |  |  |
|  |  |  |  |  |  |  |  |
| Total Credit Hours Required |  | 11-12 |  | 12 |  |  |  |
| Total General Education Hours Requi |  | 45 |  |  | 45 |  |  |

Other REQUIRED HOURS (14-15 SHC): These courses must be classified as pre-major, elective or general education within the CAA.

| Prefix | Course Name | Credit Hours | Pre-requisites | University Course <br> Equivalent | Credit <br> Hours | Category |  |
| :--- | :--- | ---: | :---: | :--- | :--- | :--- | :--- |
| ACA 122 | College Transfer Success | $\mathbf{1}$ | None | UNI 001 | Notes |  |  |

## Total Semester Credit Hours in Program: 60

Part II: Complete one of the Degree Plans Semester 5
MAT 3316 Calculus III

| Credit Hours | Pre-requisites |
| :---: | :---: |

3 MAT 2318
MAT MAT Course from List 1
Elective
Elective ..... 3
Elective ..... 3
Total ..... 15
Semester 6
MAT 2321 MAT 2321 Foundations of MathematicsMAT 2317
MAT 3317 Calculus IVMAT 3316
MAT Course from List 1 ..... 3
Elective ..... 3
Elective ..... 3
Total ..... 15
Semester 7
MAT MAT Course from List 1 ..... 3
MAT MAT Course from List 2 ..... 3
MAT MAT Course from List 2 ..... 3
Elective ..... 3
Elective ..... 3
Total ..... 15
Semester 8
MAT 4301 Differential EquationsMAT 2318
MAT MAT Course from List 1 ..... 3
MAT MAT Course from List 2 ..... 3
MAT MAT Course from List 2 ..... 3
Elective ..... 3
Total ..... 15
Upper Level ..... 60
Transfer ..... 60
Total ..... 120
List 1
Breadth Courses $\mathbf{- 1 2}$ hours
MAT 3312 Biostatistics**
MAT 3320 Introduction to Number Theory
MAT 3326 Geometry
MAT 3340 Introduction to Numerical Analysis

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            MAT 3341 Algebraic Structures I
            MAT 3350 Linear Programming
            MAT 33xx Introduction to Biomathematics
            MAT 4302 Differential Equations II
            MAT 4304 History of Mathematics
            MAT 4311 Real Variables I }\mp@subsup{}{}{1
            MAT 4315 Advanced Calculus }\mp@subsup{}{}{1
            MAT 4332 Introduction to Statistical Methods
            MAT 4333 Methods of Regression/Analysis of Variance**
            MAT 4355 Operations Research
            MAT 4318 Topics in Biomathematics
                    MAT 4360 Introduction to Survey Sampling
                    MAT 4365 Applied Nonparametric Methods
'1 Credit is not allowed for more than one of MAT 4311 and MAT 4315
            LIST }
Depth Courses - 12 Hours
    MAT 3342 Algebraic Structures II
MAT 4312 Topology
MAT 4313 Real Variables II
MAT 4387 Senior Seminar I
MAT 4388 Senior Seminar II
MAT 4330 Directed Study Seminar
MAT 4356 Mathematical Statistics I**
MAT 4357 Mathematical Statistics II**
MAT 4370 Introduction to Experimental Design**
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Students who wish to earn a B.S. Mathematics with a concentration in Statistics will complete the same requirements for the B.S. Mathematics but are required to take courses marked with $\left({ }^{* *}\right)$ among their courses.

