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

at Winston-Salem State University

**ENG 232** 

American Literature II

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)**

The following two English

|  |   |                 |                     | composition courses are   |                 |  |                    |  |
|--|---|-----------------|---------------------|---|-----------------|--|--------------------|--|
| English Co                                 | mposition (6 SCH)                                 |                 |                     | required.   |                 |  |                    |  |
|  |   | Credit          |                     | <b>University Course</b>  | Credit          | Required <u>or</u>                       |                    |  |
| Prefix                                     | Course Name                                       | Hours           | Pre-requisites      | Equivalent  | Hours           | Preferred by Major                       | Notes              |  |
| ENG 111                                    | Expository Writing                                | 3               | None                | ENG 1301  | 3               |  |                    |  |
| ENG 112                                    | Argument-Based Research                           | 3               | ENG 111             | ELEC 1100   | 3               |  | Counts as GE hours |  |
| Total Credi                                | it Hours Required                                 | 6               |                     |   | 6               |  |                    |  |
|  |   |                 |                     |   |                 |  |                    |  |
| Humanitie                                  |   |                 |                     | Students will select two  |                 |  |                    |  |
|  | s/Fine Arts (6 SCH)                               |                 |                     | courses from at least two different disciplines:  |                 |  |                    |  |
|  | s/Fine Arts (6 SCH)                               | Credit          |                     | courses from at least two   | Credit          | Required <u>or</u>                       |                    |  |
| Prefix                                     | s/Fine Arts (6 SCH)  Course Name                  | Credit<br>Hours | Pre-requisites      | courses from at least two different disciplines:  | Credit<br>Hours | Required <u>or</u><br>Preferred by Major | Notes              |  |
|  |   | Hours           | Pre-requisites None | courses from at least two<br>different disciplines:<br>University Course                        |                 | · —                                      | Notes              |  |
| ART 111                                    | Course Name                                       | Hours<br>3      | •                   | courses from at least two<br>different disciplines:<br>University Course<br>Equivalent          |                 | · —                                      | Notes              |  |
| ART 111<br>ART 114                         | Course Name Art Appreciation                      | Hours<br>3      | None                | courses from at least two different disciplines:  University Course Equivalent  ART 1301        |                 | · —                                      | Notes              |  |
| Prefix  ART 111  ART 114  ART 115  COM 231 | Course Name Art Appreciation Art History Survey I | Hours 3 3 3 3   | None<br>None        | courses from at least two different disciplines: University Course Equivalent ART 1301 ART 2301 | Hours<br>3      | · —                                      | Notes              |  |

ENG 2314

3 None

| MUS 110             | Music Appreciation     | 3 | None    | MUS 1301  | 3 |                  |
|---------------------|------------------------|---|---------|-----------|---|------------------|
| MUS 112             | Introduction to Jazz   | 3 | None    | ELEC 1000 | 3 | Counts as GE AOK |
| PHI 215             | Philosophical Issues   | 3 | ENG 111 | PHI 2301  | 3 |                  |
| PHI 240             | Introduction to Ethics | 3 | ENG 111 | PHI 2302  | 3 |                  |
| <b>Total Credit</b> | Hours Required         | 6 |         |           | 6 |                  |

Social /Behavioral Science (6 SCH)

Students will select two courses from at least two different disciplines:

| anterent also printes |                              |        |                |                   |        |                    |       |
|-----------------------|------------------------------|--------|----------------|-------------------|--------|--------------------|-------|
|                       |                              | Credit |                | University Course | Credit | Required <u>or</u> | ·     |
| Prefix                | Course Name                  | Hours  | Pre-requisites | Equivalent        | Hours  | Preferred by Major | Notes |
| ECO 251               | Principles of Microeconomics | 3      | None           | ECO 2311          | 3      |                    |       |
| ECO 252               | Principles of Macroeconomics | 3      | None           | ECO 2312          | 3      |                    |       |
| HIS 111               | World Civilizations I        | 3      | None           | HIS 1301          | 3      |                    |       |
| HIS 112               | World Civilizations II       | 3      | None           | HIS 1302          | 3      |                    |       |
| HIS 131               | American History I           | 3      | None           | HIS 2306          | 3      |                    |       |
| HIS 132               | American History II          | 3      | None           | HIS 2307          | 3      |                    |       |
| PSY 150               | General Psychology           | 3      | None           | PSY 2301          | 3      |                    | _     |
| POL 120               | American Government          | 3      | None           | POS 2311          | 3      |                    |       |
| SOC 210               | Introduction to Sociology    | 3      | None           | SOC 2301          | 3      |                    |       |

**Total Credit Hours Required** 

Students will select two courses from the

following:

Mathematics (8 SCH)

|          |                          | Credit |                | University Course | Credit | Required <u>or</u> |       |
|----------|--------------------------|--------|----------------|-------------------|--------|--------------------|-------|
| Prefix   | Course Name              | Hours  | Pre-requisites | Equivalent        | Hours  | Preferred by Major | Notes |
| MAT 171  | Precalculus Algebra      | 4      | None           | MAT 1312          | 3      |                    |       |
| MAT 172  | Precalculus Trigonometry | 4      | MAT 171        | MAT 1312          | 3      |                    |       |
| MATH 263 | Brief Calculus           | 4      | MAT 171        | MAT 2333          | 3      |                    |       |
| MATH 271 | Calculus I               | 4      | MAT 172        | MAT 2317          | 3      | Х                  |       |

6

6

# Students will select 8 SHS from the following courses:

Natural Sciences (8 SCH)

|             |                               | Credit |                    | University Course | Credit | Required <u>or</u> |                       |
|-------------|-------------------------------|--------|--------------------|-------------------|--------|--------------------|-----------------------|
| Prefix      | Course Name                   | Hours  | Pre-requisites     | Equivalent        | Hours  | Preferred by Major | Notes                 |
| AST 151/151 | General Astronomy I and lab I |        | None               | PHS 4111          | 4      |                    |                       |
| BIO 110     | Principles of Biology         | 4      | None               | BIO 1301/1101     | 4      |                    |                       |
|             |                               |        |                    |                   |        |                    | must take both BIO    |
| BIO 111     | General Biology I             | 4      | None               | BIO 2301/2101     | 4      | Х                  | 111 and BIO 112       |
|             |                               |        |                    |                   |        |                    | must take both BIO    |
| BIO 112     | General Biology II            | 4      | BIO 111            | BIO 2302/2102     | 4      |                    | 111 and BIO 112       |
|             |                               |        |                    |                   |        |                    | must take both CHM    |
| CHM 151     | General Chemistry I           | 4      | None               | CHE 2311+2111     | 4      | X                  | 151 and CHM 152       |
|             |                               |        |                    |                   |        |                    | must take both CHM    |
| CHM 152     | General Chemistry II          | 4      | CHM 151            | CHE 2312+2112     | 4      | X                  | 151 and CHM 152       |
| GEL 111     | Introduction Geology          | 4      | None               | ELEC 1100         | 4      |                    | Counts as GE AOK      |
|             |                               |        |                    |                   |        |                    | Counts as GE AOK,     |
|             |                               |        |                    |                   |        |                    | must take lab with    |
| PHY 110/110 | Conceptual Physics and Lab    | 4      | None               | ELEC 1100         | 4      |                    | course                |
|             |                               |        |                    |                   |        |                    | must take PHY 151 and |
| PHY 151     | College Physics I             | 4      | MAT 171            | PHY 2321          | 4      | X                  | PHY 152               |
|             |                               |        |                    |                   |        |                    | must take PHY 151 and |
| PHY 152     | College Physics II            | 4      | PHY 151            | PHY 2322          | 4      | X                  | PHY 152               |
|             |                               |        |                    |                   |        |                    | must take PHY 251 and |
| PHY 251     | General Physics I             | 4      | MAT 271            | PHY 3331          | 4      |                    | PHY 252               |
|             |                               |        | MAT 272 <u>and</u> |                   |        |                    | must take PHY 251 and |
| PHY 252     | General Physics II            | 4      | PHY 251            | PHY 3332          | 4      |                    | PHY 252               |

Total Credit Hours Required 8 8

#### hal General Education Courses (11-12 SHC): These courses must classified as UGETC or general education within

| Prefix  | Course Name          | Credit<br>Hours | Pre-requisites | University Course<br>Equivalent | Credit<br>Hours | Category | Notes |
|---------|----------------------|-----------------|----------------|---------------------------------|-----------------|----------|-------|
|         |                      |                 |                |                                 |                 |          |       |
| CHM 152 | General Chemistry II | 4               | CHM 151        | CHE 2312+2112                   | 4               |          |       |
| PHY 151 | College Physics I    | 4               | MAT 171        | PHY 2321+2121                   | 4               |          |       |
| PHY 152 | College Physics II   | 4               | PHY 151        | PHY 2322+2122                   | 4               |          |       |

Total Credit Hours Required 11-12 12

**Total General Education Hours Requ** 

45

45

### D HOURS (14-15 SHC): These courses must be classified as pre-major, elective or general education

|         | •                          |        |                | -                 | -      |          |                 |
|---------|----------------------------|--------|----------------|-------------------|--------|----------|-----------------|
|         |                            | Credit |                | University Course | Credit |          |                 |
| Prefix  | Course Name                | Hours  | Pre-requisites | Equivalent        | Hours  | Category | Notes           |
| ACA 122 | College Transfer Success   | 1      | None           | UNI 001           | 1      | GEC      | required by CAA |
| MAT 272 | Calculus II                |        |                | MAT 2318          | 3      |          |                 |
| CHM 251 | Organic Chemistry I        | 4      |                | CHE 3326 + 3126   | 4      |          |                 |
| CHM 252 | Organic Chemistry II       | 4      |                | CHE 3327 + 3127   | 4      |          |                 |
|         | Take 2 hours of GE courses |        |                |                   |        |          |                 |
|         |                            |        |                |                   |        |          |                 |

Semester 5

Other Required Hours (15-16 SCH) 14-15

14

**Total Semester Credit Hours in Program: 60** 

Part II: Complete one of the Degree Plans

BS Chemistry

CHE 3321 - Quantitative Analysis

3

CHE 3121 - Quantitative Analysis Lab

1

CHE 3/4000 Elective

2

| Elective                             | 4          |
|--------------------------------------|------------|
| Elective                             | 4          |
|                                      | 14         |
|                                      | S          |
|                                      | Semester 6 |
| CHE 3322 - Instrumental Analysis     | 3          |
| CHE 3222 - Instrumental Analysis Lab | 2          |
| MAT 2318 Calculus II                 | 3          |
| Elective                             | 4          |
| Elective                             | 4          |
|                                      | 16         |
|                                      | Semester 7 |
| CHE 4311 - Physical Chemistry I      | 3          |
| CHE 4111 - Physical Chemistry I Lab  | 1          |
| Elective                             | 3          |
| Elective                             | 3          |
| Elective                             | 4          |
|                                      | 14         |
|                                      | Semeste 8  |
| CHE 4241 – Senior Seminar            | 2          |
| CHE 3/4000 Elective                  | 3          |
| Elective                             | 3          |
| Elective                             | 5<br>4     |
|                                      |            |
| Elective                             | 4<br>16    |