

# University of North Georgia

## STEM Focus Area

Name:

ID#:

Catalog:

Grad. Semester:

### Area A - Communication and Quantitative Skills\* (9 hrs.)

- | Course         | Sem. | Hrs. | Grd. |
|----------------|------|------|------|
| 1. ENGL 1101** |      |      |      |
| 2. ENGL 1102** |      |      |      |
| 3. MATH        |      |      |      |

\*Area A completed by 30 hrs. \*\*A grade of C or higher is required for ENGL 1101 & 1102.  
\*Consult with Advisor on appropriate MATH selection.

### Area B - Institutional Options (7 hrs.)

1. Modern Lang.\*
2. Global Course

\*Modern language courses at the 1001 and 1002 level are 4 credit hours.

### Area C - Humanities, Fine Arts and Ethics (6 hrs.)

1. Lit. or Lang.\*
2. Fine Arts/Phil.

### Area D - Natural Sciences, Math and Technology (11 hrs.)

1. Lab Science
2. Lab Science
3. Math & Tech.

\*BIOL 1107K & 1108K may be taken in Area D or Area F.  
\*\*Consult with Advisor on appropriate Lab Science and Math/Technology selections.

### Area E - Social Sciences (9 hrs.)

1. US/GA His.&Gov.
2. Behavioral Sci.
3. Social Science

\*PSYC 1101 is recommended.  
\*\*GEOG 1101 is recommended.

### Area F - Courses Appropriate to Major (18 hrs.)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

\*CHEM 1211/L & CHEM 1212/L may be taken in Area D or Area F.  
\*\*MATH 2470 may be used for certain majors in Area F.  
Consult with your Advisor.

### Graduation Requirements:

US History	GA History
US Constitution	GA Constitution
39 Hours at 3/4000 Level	30 Residency Hours
Minimum 2.0 Institutional & Cumulative GPA	
Minimum 60 Core Hours & 120 Semester Hours	
21 Hours at the 3000/4000 Level in Major	

### STEM

30 hours designed for students wishing to pursue a baccalaureate degree in **Biology, Chemistry, Computer Science, Dual Degree Engineering, Environmental Spatial Analysis, Mathematics, Physics, and Psychology**. See highlighted areas on back for recommended courses.

Students should consult with their Academic Advisor for selection of courses most appropriate to potential major selection.

### Comments:

Signatures (original only)

Date

Student:

Advisor:

### Military Science - Cadets Only

Course	Hrs.	Chk.	Course	Hrs.	Chk.
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### PME Requirement for Contracting Cadets

Course	Sem.	Hrs.	Grd.
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UNIVERSITY OF NORTH GEORGIA CORE CURRICULUM  
Core courses may have prerequisites or enrollment restrictions. Students should always review the course descriptions listed in the UNG Academic Catalog for information before registering for any course.

Please note that certain courses may appear in multiple areas in the core curriculum, but courses must not be applied to more than one area.

**AREA A - Essential Skills (9 hours)**

**Communication Skills (6 hours). Take both:**

- |             |                        |
|-------------|------------------------|
| 3 ENGL 1101 | English Composition I  |
| 3 ENGL 1102 | English Composition II |

**Quantitative Skills (3 hours). Choose one:**

- |                    |                                 |
|--------------------|---------------------------------|
| 3 MATH 1001        | Quantitative Skills & Reasoning |
| 3 MATH 1101        | Mathematical Models             |
| 3 MATH 1111        | College Algebra                 |
| 3 MATH 1113        | Pre-Calculus                    |
| 4 MATH 1450 (1501) | Calculus I*                     |

A

\*If a student elects to enroll in calculus (4 hours), one hour can be counted in Area F or as an elective.

**MATH 1111** recommended for Business majors to meet future prerequisites.

**MATH 1111** or higher required for Nursing majors.

**MATH 1113** or **MATH 1450** required for Biology, Chemistry, Computer Science, Engineering, Mathematics, and Physics majors.

**AREA B - Institutional Options (7 hours)**

**Modern Language (3-4 hours). Choose one:**

Any non-English language course at the 1001, 1002, 2001 or 2002 level.

**Global Courses (3-4 hours). Choose one or two:**

- |             |  |
|-------------|--|
| 3 ANTH 1102 | Introduction to Anthropology                 |
| 3 CGLO 1503 | Contemporary Global Topics                   |
| 3 COMM 1503 | Intercultural Communication                  |
| 3 DVRS 1503 | Studies in Diversity Issues                  |
| 3 ENGL 2111 | World Literature I                           |
| 3 ENGL 2112 | World Literature II                          |
| 3 ENGL 2160 | Multicultural American Literature            |
| 3 ENST 2030 | Environmental Studies & Sustainability       |
| 3 GEOG 1101 | Introduction to Human Geography              |
| 3 GEOG 1102 | World Regional Geography                     |
| 3 HIST 1111 | World History I                              |
| 3 HIST 1112 | World History II                             |
| 3 HIST 2860 | History of World Religions                   |
| 2 INED 2902 | Special Topics in International Perspectives |
| 3 INED 2903 | Special Topics in International Perspectives |
| 3 PHIL 2200 | Ethics from a Global Perspective             |
| 3 POLS 1153 | Global Citizenship                           |
| 3 POLS 2301 | Introduction to Comparative Politics         |
| 3 POLS 2401 | Global Issues                                |
| 3 RELG 2860 | History of World Religions                   |
| 3 SOCI 1160 | Introduction to Social Problems              |

B

**AREA C - Humanities, Fine Arts, & Ethics (6 hours)**

**Literature (3 hours). Choose one:**

- |             |  |
|-------------|--|
| 3           | Any non-English language course at the 2001 or 2002 level. |
| 3 ENGL 2111 | World Literature I   |
| 3 ENGL 2112 | World Literature II  |
| 3 ENGL 2115 | Gender and Literature                                      |
| 3 ENGL 2121 | British Literature I                                       |
| 3 ENGL 2122 | British Literature II                                      |
| 3 ENGL 2131 | American Literature I                                      |
| 3 ENGL 2132 | American Literature II                                     |
| 3 ENGL 2143 | African American Literature                                |
| 3 ENGL 2145 | Native American Literature                                 |
| 3 ENGL 2150 | Literature and Film  |
| 3 ENGL 2160 | Multicultural American Literature                          |
| 3 ENGL 2165 | Survey of Latina/o U.S. Literature                         |
| 3 MDST 2150 | Literature and Film  |

C

Note: A "C" or better in ENGL 1102 is a prerequisite for all ENGL 21XX courses.

**Fine Arts or Philosophy (3 hours). Choose one:**

- |               |                                  |
|---------------|----------------------------------|
| 3 ART(S) 1100 | Art Appreciation                 |
| 3 ART 2510    | Introduction to Art History I    |
| 3 ART 2520    | Introduction to Art History II   |
| 3 COMM 1110   | Public Speaking                  |
| 3 COMM 2050   | Media, Culture and Society       |
| 3 MDST 1110   | Film Appreciation                |
| 3 MUSC 1100   | Music Appreciation               |
| 3 PHIL 2010   | Introduction to Philosophy       |
| 3 PHIL 2200   | Ethics from a Global Perspective |
| 3 THEA 1100   | Theatre Appreciation             |

**AREA D - Natural Sciences, Mathematics, and Technology (11 hours)**

**Biology, Chemistry, Computer Science, Engineering, Mathematics, Physics majors (8 hours)" Choose two, in a sequence. *Consult degree plan for specific science course recommendations.***

**Nursing majors (8 hours). A chemistry sequence is required.**

- |                 |                                     |
|-----------------|-------------------------------------|
| 4 ASTR 1010/L & | Astronomy of the Solar System & Lab |
| 4 ASTR 1020/L   | Stellar & Galactic Astronomy & Lab  |

- |                                 |                                     |
|---------------------------------|-------------------------------------|
| 4 BIOL 1101/L (1101K) <u>or</u> | Biology - A Human Perspective & Lab |
| 4 BIOL 1011K &                  | Intro to Biology                    |
| 4 BIOL 1102/L (1102K)           | Introduction to Ecology & Lab       |

- |                |                          |
|----------------|--------------------------|
| 4 BIOL 1107K & | Principles of Biology I  |
| 4 BIOL 1108K   | Principles of Biology II |

- |                             |                                     |
|-----------------------------|-------------------------------------|
| 4 BIOL 1260/L (1260K) &     | Environmental Science & Lab         |
| 4 BIOL 1101/L (k) <u>or</u> | Biology - A Human Perspective & Lab |
| 4 BIOL 1011K                | Intro to Biology                    |

- |                 |                        |
|-----------------|------------------------|
| 4 BIOL 2210/L & | Plant Biology I & Lab  |
| 4 BIOL 2220/L   | Plant Biology II & Lab |

- |                         |                              |
|-------------------------|------------------------------|
| 4 CHEM 1151/L (1151K) & | Survey of Chemistry I & Lab  |
| 4 CHEM 1152/L (1152K)   | Survey of Chemistry II & Lab |

- |                 |                                  |
|-----------------|----------------------------------|
| 4 CHEM 1211/L & | Principles of Chemistry I & Lab  |
| 4 CHEM 1212/L   | Principles of Chemistry II & Lab |

- |                |   |
|----------------|---|
| 4 ENVS 2111K & | Physical Environmental Science            |
| 4 ENVS 2112K   | Environmental Management & Sustainability |

- |                |                                    |
|----------------|------------------------------------|
| 4 GEOG 1111K & | Intro to Physical Geography        |
| 4 GEOG 1112/L  | Intro to Weather and Climate & Lab |

- |                |                    |
|----------------|--------------------|
| 4 GEOL 1121K & | Physical Geology   |
| 4 GEOL 1122K   | Historical Geology |

- |                         |                  |
|-------------------------|------------------|
| 4 PHYS 1111/L (1111K) & | Intro Physics I  |
| 4 PHYS 1112/L (1112K)   | Intro Physics II |

- |                         |                          |
|-------------------------|--------------------------|
| 4 PHYS 2211/L (2211K) & | Principles of Physics I  |
| 4 PHYS 2212/L (2212K)   | Principles of Physics II |

D

**Mathematics and Technology (3 hours). Choose one:**

- |                     |   |
|---------------------|---|
| 3 MATH 1113         | Pre-Calculus                                      |
| 3 MATH 1401         | Elementary Statistics                             |
| 4 MATH 1450 (1501)  | Calculus I*                                       |
| 3 MATH 2040         | Brief Calculus                                    |
| 4 MATH 2460         | Calculus II*                                      |
| 3 MATH 2510         | Introduction to Discrete Mathematics              |
| 3 CSCI 1250         | Information Technologies (non-science majors)     |
| 4 CSCI 1301 (1301K) | Computer Science I                                |
| 4 CSCI 1371         | Computing for Scientists and Engineers**          |
| 3 DATA 1501         | Introduction to Data Science (non-science majors) |
| 2/1 GISC 2011/L     | Geographic Information Science and Lab            |

\*If a student elects to enroll in a calculus course (4 hours), one hour can be counted in Area F or as an elective.

\*\*Designed specifically for students in the dual degree engineering programs and in the physics major.

**AREA E - Social Sciences (9 hours)**

**US/GA History and Government (3 hours). Choose one:**

- |             |                     |
|-------------|---------------------|
| 3 HIST 2111 | U.S. History I      |
| 3 HIST 2112 | U.S. History II     |
| 3 POLS 1101 | American Government |

**Behavioral Science (3 hours). Choose one:**

- |             |                              |
|-------------|------------------------------|
| 3 ANTH 1102 | Introduction to Anthropology |
| 3 ECON 2105 | Principles of Macroeconomics |
| 3 PSYC 1101 | Introduction to Psychology   |
| 3 SOCI 1101 | Introduction to Sociology    |

E

**Social Science (3 hours). Choose one:**

- |             |  |
|-------------|--|
| 3 ENST 2030 | Environmental Studies & Sustainability |
| 3 GEOG 1101 | Introduction to Human Geography        |
| 3 GEOG 1102 | World Regional Geography               |
| 3 HIST 1111 | World History I                        |
| 3 HIST 1112 | World History II                       |
| 3 HIST 2111 | U.S. History I                         |
| 3 HIST 2112 | U.S. History II                        |
| 3 POLS 1101 | American Government                    |
| 3 POLS 2301 | Introduction to Comparative Politics   |
| 3 POLS 2401 | Global Issues                          |

**AREA F - Area of Concentration (18 hours)**

Courses related to your major program of study, chosen with your advisor.