

# Science Education (BS): Middle Grades Science (13SCIEDBS-13SCIEDMID)

## Freshman Year

Fall Semester	Credit	Spring Semester	Credit
CH 101 Molecular Chemistry <sup>B,7</sup>	3	MEA 101 Geology I: Physical <sup>B,7</sup>	3
CH 102 Molecular Chemistry Lab <sup>B,7</sup>	1	MEA 110 Geology I: Laboratory <sup>B,7</sup>	1
MA 121 Elemental Calculus OR MA 131 Calc Life & Manag Science A <sup>A</sup>	3	MA 231 Calc Life & Manag Science B OR ST 311 Intro to Statistics <sup>A</sup>	3
ENG 101 Acad. Writing & Research <sup>H</sup>	4	FS 201 Food Science and the Consumer <sup>B,7</sup>	3
COM 110 Public Speaking	3	HES_*** Health & Exercise Studies Course <sup>E</sup>	1
ED 100 Intro to Education <sup>5</sup>	2	Social Sciences Reqt <sup>4,D</sup>	3
	16		14

## Sophomore Year

Fall Semester	Credit	Spring Semester	Credit
BIO 105 Biology in the Modern World <sup>7</sup>	3	PY 124 Solar System Astronomy <sup>7</sup>	3
PY 131 Conceptual Physics <sup>7</sup>	4	NTR 301 Intro to Human Nutrition <sup>7</sup>	3
MEA 130 Intro to Weather & Clim <sup>7</sup>	3	EMS 205 Intro to Teaching Science <sup>5</sup>	2
MEA 135 Intro to Weather & Clim Lab <sup>7</sup>	1	ED 204 Intro to 21st Century Teaching <sup>5</sup>	2
GEP Add'l Breadth Reqt <sup>F</sup>	3	EDP 304 Educational Psychology (GEP SS) <sup>5,D</sup>	3
HES_*** Health & Exercise Studies Course <sup>E</sup>	1	GEP Humanities Reqt. <sup>C</sup>	3
	15		16

## Junior Year

<b>Fall Semester</b>	<b>Credit</b>	<b>Spring Semester</b>	<b>Credit</b>
GN 301 Genetics in Human Affairs <sup>7</sup>	3	GEP Interdisc. Persp. Elective <sup>G</sup>	2-3
Science Elective <sup>7</sup>	3	Science Elective <sup>7</sup>	3
EMS 373 Instr. Materials in Science <sup>5</sup>	3	EMS 375 Methods of Teach Sci I <sup>3,5</sup>	3
ECI 309 Teaching in Middle Years <sup>5</sup>	3	ECI 306 Middle Years Reading <sup>3,5</sup>	3
ELP 344 School & Society <sup>5</sup>	3	ECI 416 Teach Except Students <sup>5</sup>	3
		ED 311 Classroom Assess. Princ. & Pract. <sup>5</sup>	2
		ED 312 Classroom Assess. Princ. & Pract. Lab <sup>5</sup>	1
	15		17-18

## Senior Year

<b>Fall Semester</b>	<b>Credit</b>	<b>Spring Semester</b>	<b>Credit</b>
PB 213 Plants & Civilization <sup>7</sup>	3	EMS 476 Student Teaching in Science <sup>6,5</sup>	10
Science Elective <sup>7</sup>	3	EMS 495 Senior Seminar in Math & Science Ed <sup>6,5</sup>	2
EMS 475 Methods of Teach Sci II <sup>2,5</sup>	3		
Hist/Phil of Science Elective (IP) <sup>1,6</sup>	3		
GEP Humanities Reqt. <sup>C</sup>	3		
	15		12

Minimum Credit Hours Required for Graduation<sup>\*I,J,K</sup>:

120

1. Choose one from HI 321, HI 322, HI 341, HI 480, PHI 340, or STS 301 (Fulfills 3 hours of GEP Interdisciplinary Perspectives).
2. Offered only in the Fall semester.

3. Offered only in the Spring semester.
4. Choose a course from the GEP Social Science list EXCEPT PSY course. Social Science elective may NOT be a Psychology course.
5. A grade of C (2.0) or better is required for all ECI, ELP, and ED courses, EDP 304, EMS 373, EMS 476, EMS 495. B- or better is required for EMS 205 EMS 375, and EMS 475.
6. Offered only in the Spring Semester. Prior Admission to the Professional Semester is required.
7. A grade of C (2.0) or better is required for core content courses, up to two courses with a grade below a C is permitted.

**\*General Education Program (GEP) requirements and GEP Footnotes**

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at <http://oucc.dasa.ncsu.edu/general-education-program/>.

**A. Mathematical Sciences** (6 credit hours – one course with MA or ST prefix)

*Choose from the University approved GEP Mathematical Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: MA 121 or MA 131 and MA 231 or ST 311*

**B. Natural Sciences** (7 credit hours – include one laboratory course or course with a lab)

*Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: CH 101/CH 102 and MEA 101/MEA 110*

**C. Humanities** (6 credit hours selected from two different disciplines/course prefixes)

*Choose from the University approved GEP Humanities course list. none*

**D. Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)

*Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: EDP 304, Social Science Req*

**E. Health & Exercise Studies** (2 credit hours – at least one 100-level Health & Exercise Studies Course)

*Choose from the University approved GEP Health & Exercise Studies course list.*

**F. Additional Breadth** - (3 credit hours to be selected from the following checked University approved GEP course lists)

Humanities/Social Sciences/Visual and Performing Arts

**G. Interdisciplinary Perspectives** (5-6 credit hours)

*Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: History/Philosophy of Science Elective*

**H. Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better)

The following **Co-Requisites** must be satisfied to complete the General Education Program requirements

**I. U.S. Diversity** (USD)

*Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement: NONE*

**J. Global Knowledge** (GK)

*Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement: NONE*

**K. Foreign Language proficiency** - Proficiency at the FL\_102 level is required for graduation.