

*Hofstra University*  
*School of Education, Health and Human Services*  
*Department of Teaching, Literacy, and Leadership*

**Bachelor of Arts**  
**Science Education**  
**Specialization – Earth Science**  
**Plan of Study for Program Code: 24145 (Part 3 of 3)**

**Personal Information**

|                   |                       |
|-------------------|-----------------------|
| Name:             | Banner ID:            |
| Address:          | Undergraduate School: |
| City, State, Zip: | Undergraduate Major:  |
| Phone:            | E-Mail:               |
| Certification:    | Date:                 |

**Program Requirements**

**Requirements**

Students choose a major in Earth Science (Geology). Students interesting in obtaining teaching certification in Earth Science should major in Geology.

After completing a minimum of 45 semester hours of college course work, the student then chooses Science Education as a *co-major*. For admissions policies, procedures, and requirements see Secondary Education, Undergraduate Programs.

In addition to meeting all the course requirements for the B.A. degree in the selected science major (Biology, Chemistry, Geology or Physics), prospective teachers of science must include within their overall undergraduate program of study :

- a) Minimum of 6 s.h. in Biology.
- b) Minimum of 6 s.h. in Chemistry
- c) Minimum of 6 s.h. in Geology
- d) Minimum of 6 s.h. in Physics
- e) Minimum of 6 s.h. in Calculus-based Mathematics
- f) Students who are preparing to teach earth science are required to include GEOL 1, Physical Geological Science, and GEOL 7, Earth Science I, among their course work.

The Hofstra University undergraduate program in Science Education, with Specialization in Geology, is a New York State registered program. Students who successfully complete this program and who obtain passing scores on the New York State Teacher Certification Examinations (NYSTCE) will qualify for New York State Initial Teacher Certification.

## Admission Criteria

### Requirements

After completing a minimum of 45 semester hours of college course work, students may apply for admission to the School of Education, Health and Human Services through the Department of Teaching, Literacy, and Leadership in 128 Hagedorn Hall. Admission into a B.A degree program in the Department of Teaching, Literacy, and Leadership is based on a comprehensive review of multiple criteria, including the following:

- A passing score on the Hofstra English Proficiency Exam,
- An overall GPA of 2.75 or higher on overall course work and liberal arts and sciences course work,
- Two letters of reference addressing the applicant's potential to succeed in the teaching profession,
- A written personal statement of professional intent and rationale,
- An interview with the Program Director.

The department understands that any single criterion may not reliably predict a student's potential for success in the program. Students may consider applying even if they fail to meet one of the criteria but feel that other aspects of their experience might compensate.

### Teacher Education Liberal Arts And Science Requirements which Include FDED 127 ( 93 S.H.)

#### Areas to Be Included in Partial Fulfillment of the Hofstra Distribution and other B.A. Requirements

| Course                     | Description  | S.H.     | Semester/Year |
|----------------------------|--|----------|---------------|
| LT<br>or<br>AA<br>or<br>CP | <b><u>Artistic Expression/Humanities:</u></b><br>Any LT, Literature, AA, Appreciation and Analysis, or CP, Creative Participation, course listed under Humanities Division of the Hofstra Distribution   | 3 S.H.   |               |
| SPCM 1<br>or<br>SPCM 7     | <b><u>Communication:</u></b><br>Oral Communication<br><br>Public Speaking<br><i>or comparable course work</i>  | 3 S.H.   |               |
| CSC 5<br>or<br>EIR         | <b><u>Information Retrieval:</u></b><br>Overview of Computer Science<br><br>Examination for Information Retrieval ( <i>a minimum passing score of 70 points is required</i> )  | 0-3 S.H. |               |
|                            | <b><u>Historical/Social Science Concepts:</u></b><br>Include at least one HIST course listed under the Social Science Division of the Hofstra Distribution   | 6 S.H.   |               |
|                            | <b><u>Language Other Than English:</u></b><br>Completion of 3 cr. in a language other than English, or placement at level 2 or above, or American Sign Language, ASL 191, may be used to satisfy this requirement but does not carry liberal credit. | 3 S.H.   |               |
|                            | <b><u>Scientific Processes:</u></b><br>Any NS, Natural Science, course listed under the Natural Sciences Division of the Hofstra Distribution  | 3-4 S.H. |               |
| MATH                       | <b><u>Mathematical Processes:</u></b><br>Any MATH course listed under the  | 3 S.H.   |               |

|                |   |        |
|----------------|---|--------|
|                | Mathematics/Computer Science division of the Hofstra Distribution.  |        |
| WSC 1<br>WSC 2 | <b>Written Analysis and Expression:</b><br>Composition<br>Composition<br><b>and</b> a passing score on the Hofstra Writing Proficiency Examination. Students transferring from other institutions must pass the Hofstra Writing Proficiency Exam. | 6 S.H. |

**Requirements in the Content Core for the Teaching of Geology (36 S.H.)**  
*(courses selected under advisement)*

| Content Core Courses |  |             |                      |
|----------------------|--|-------------|----------------------|
| <i>Course</i>        | <i>Description</i>   | <i>S.H.</i> | <i>Semester/Year</i> |
| GEOL 1               | Physical Geological Science                                      | 3 S.H.      |                      |
| GEOL 2               | Historical Geological Science                                    | 3 S.H.      |                      |
| GEOL 7               | Earth Science I  | 3 S.H.      |                      |
| GEOL Electives       | <i>Electives are taken under advisement, from the following:</i> | 24 S.H.     |                      |
| GEOL 3               | Astrogeology   | 3 S.H.      |                      |
| GEOL 4               | Introduction to Gemology and Gemstones                           | 3 S.H.      |                      |
| GEOL 5               | Environmental Geology and Natural Hazards                        | 3 S.H.      |                      |
| GEOL 6               | Introduction to Dinosaurs and Mesozoic World                     | 3 S.H.      |                      |
| GEOL 9               | Introduction to Earth Resources                                  | 3 S.H.      |                      |
| GEOL 10              | Environmental Geology  | 3 S.H.      |                      |
| GEOL 11              | Physical Geology   | 3 S.H.      |                      |
| GEOL 12              | Earth History and Crustal Evolution                              | 3 S.H.      |                      |
| GEOL 18              | Geological Cartographic Analysis                                 | 3 S.H.      |                      |
| GEOL 19              | Structural Geology   | 3 S.H.      |                      |
| GEOL 20              | Introduction to Field Methods                                    | 3 S.H.      |                      |
| GEOL 31              | Crystallography and Mineralogy                                   | 3 S.H.      |                      |
| GEOL 33              | Environmental Geomorphology                                      | 3 S.H.      |                      |
| GEOL 100             | Honors Research Essay  | 3 S.H.      |                      |
| GEOL 104             | Excursions in Field Geology                                      | 3 S.H.      |                      |
| GEOL 115             | Lunar and Planetary Geology                                      | 3 S.H.      |                      |
| GEOL 120             | Introduction to Physics  | 3 S.H.      |                      |
| GEOL 121             | Hydrology  | 3 S.H.      |                      |
| GEOL 123             | General Oceanography   | 3 S.H.      |                      |
| GEOL 131             | Optical Mineralogy   | 3 S.H.      |                      |
| GEOL 132             | Geochemistry   | 3 S.H.      |                      |
| GEOL 133             | Igneous and Metamorphic Petrology and Petrography                | 3 S.H.      |                      |
| GEOL 134A            | Field Geology  | 3 S.H.      |                      |
| GEOL 135             | Sedimentation  | 3 S.H.      |                      |
| GEOL 136             | Marine Geology   | 3 S.H.      |                      |
| GEOL 137             | Invertebrate Paleontology  | 3 S.H.      |                      |
| GEOL 139             | Advanced Geochemistry  | 3 S.H.      |                      |
| GEOL 140             | Biostratigraphy  | 3 S.H.      |                      |
| GEOL 141             | Economic Resources and Geologic Computing                        | 3 S.H.      |                      |
| GEOL 144             | Petroleum Geology  | 3 S.H.      |                      |
| GEOL 146             | Principles of Physical Stratigraphy                              | 3 S.H.      |                      |
| BIO 11               | General Biology I  | 3 S.H.      |                      |
| BIO 12               | General Biology II   | 3 S.H.      |                      |
| CHEM 3A              | General and Inorganic Chemistry I                                | 3 S.H.      |                      |
| CHEM 4A              | General and Inorganic Chemistry II                               | 3 S.H.      |                      |
| MATH 71              | Analytic Geometry and Calculus I                                 | 4 s.h.      |                      |

|          |                                   |        |
|----------|-----------------------------------|--------|
| MATH 72  | Analytic Geometry and Calculus II | 4 s.h. |
| PHYS 11A | General Physics I                 | 3 S.H. |
| PHYS 12A | General Physics II                | 3 S.H. |

### **Education Requirements (31 S.H.)**

| <b>Phase I: Introductory Courses (10 S.H.)</b>                    |  |             |                      |
|---|--|-------------|----------------------|
| <i>Course</i>   | <i>Description</i>   | <i>S.H.</i> | <i>Semester/Year</i> |
| FDED 127<br>or<br>FDED 111<br>or<br>FDED 112<br>or<br>FDED 115    | Introduction to Philosophy of Education<br><b>recommended</b> (earns Liberal Arts credit)<br>The American School<br>(earns Liberal Arts credit)<br>Politics of Education<br>(earns Liberal Arts credit)<br>Introduction to Sociology of Education<br>(earns Liberal Arts credit) | 3 S.H.      |                      |
| SED 100   | Educational Technology in Secondary and Middle Level Education   | 1 S.H.      |                      |
| SED 102*  | Adolescent Development and Learning (PSY 7 or PSY 1 is prerequisite)   | 3 S.H.      |                      |
| SPED 102*   | Inclusion: Meeting Special Needs in PreK-12 Programs   | 3 S.H.      |                      |
| <i>*requires observation/participation in a designated school</i> |  |             |                      |

| <b>Phase II: General Methods Courses (6 S.H.)</b>                 |  |             |                      |
|---|--|-------------|----------------------|
| <i>Course</i>   | <i>Description</i>                       | <i>S.H.</i> | <i>Semester/Year</i> |
| LYST 101*   | Literacy for Middle/High School Teachers | 3 S.H.      |                      |
| SED 151*  | The Secondary School Teacher             | 3 S.H.      |                      |
| <i>*requires observation/participation in a designated school</i> |  |             |                      |

| <b>Phase III: Special Methods and Curriculum Courses (6 S.H.)</b> |                                     |             |                      |
|---|-------------------------------------|-------------|----------------------|
| <i>Course</i>   | <i>Description</i>                  | <i>S.H.</i> | <i>Semester/Year</i> |
| SED 155*  | The Teaching of Science             | 3 S.H.      |                      |
| SED 165   | Understanding of Science Curriculum | 3 S.H.      |                      |
| <i>*requires observation/participation in a designated school</i> |                                     |             |                      |

| <b>Phase IV: Student Teaching and Co-requisite Seminars (9 S.H.)</b>  |   |             |                      |
|---|---|-------------|----------------------|
| <i>Course</i>   | <i>Description</i>  | <i>S.H.</i> | <i>Semester/Year</i> |
| SED 178   | Introduction to Reflective Practice and Classroom Analysis (requires completion of an Electronic Portfolio) | 3 S.H.      |                      |
| SED 179   | Student Teaching  | 6 S.H.      |                      |
| Students receiving a grade lower than C- in a professional education course must repeat the course and receive a grade of C- or higher in order to remain in the program. |   |             |                      |

### **Field Experience Before Student Teaching**

| <i>Course</i> | <i>Setting</i>  |
|---------------|---|
| SED 102       | 20 clock hours of observation in varied settings, Grades 7-9  |
| SED 151       | 20 clock hours of observation in varied settings, Grades 7-12 |

|          |   |
|----------|---|
| SED 155  | 20 clock hours of observation in varied settings, Grades 10-12                            |
| LYST 101 | 20 clock hours of observation in varied settings, Grades 7-12                             |
| SPED 102 | 20 clock hours of observation in settings with <i>special-needs</i> students, Grades 7-12 |

Prospective teachers in the Science Education with Specialization in Geology program must complete at least 100 clock hours of participation/observation prior to student teaching. All field experiences are incorporated into course curricula. Students enrolled in SPED 102 are placed in educational settings to work with students who have special needs or disabilities. Placements are arranged by the Office of Fields Placement. Departmental policy is to place prospective teachers in districts other than those in which they currently reside or schools they attended.

### Student Teaching Prerequisites

#### Qualifications

To qualify for admission to SED 178, Introduction to Reflective Practice and Classroom Analysis, or SED 179, Student Teaching, students must:

1. Complete at least 19 semester hours of professional education course work (earning a grade of C- or higher).
2. Maintain a grade point average of 2.75 or higher in overall course work or have permission of adviser.
3. Maintain a grade point average of 2.5 or higher in Science content courses.
4. Have no unresolved INC grades in professional education course work.
5. Have fingerprinting application completed.

Admission by interview and application forms - to the Office of Field Placement, 118 Hagedorn Hall, by May 1 for the succeeding Spring Semester and February 15 for the succeeding Fall Semester.

### Student Teaching Checklist

| Requirement  | Check or Date |
|--|---------------|
| <b>New York State Education Law Seminar*:</b>  |               |
| 1. Identification of Child Abuse and Maltreatment  |               |
| 2. Fire & Arson Prevention   |               |
| 3. Prevention of Alcohol, Tobacco, and Drug Abuse  |               |
| 4. School Violence Prevention and Intervention (SAVE)  |               |
| 5. Highway and School Safety/Prevention of Child Abduction   |               |
| <b>New York State Teacher Certification Examination**:</b>   |               |
| 1. Liberal Arts and Science Test (LAST)  |               |
| 2. Elementary Assessment of Teaching Skills (ATS-W)  |               |
| 3. Content Specialty Test/Tests (CST)  |               |
| <b>Incompletes resolved</b>  |               |
| <b>Liberal Arts General Education Core</b>   |               |
| <b>Secondary Content Core</b>  |               |
| *Seminar requirement may change. Contact the Office of Certification and Educational Support Services for current requirement and scheduled presentations at (516) 463-5747. <b>The degree will not be conferred until all the requirements are fulfilled.</b> |               |
| **Contact the Office of Certification and Educational Support Services for examination requirements at (516)463-4216.  |               |

#### Approval to Apply for Student Teaching

Approved  
(Signature): \_\_\_\_\_ Date: \_\_\_\_\_

## Graduation Requirements

### Requirements

1. Completion of all graduation requirements for the B.A. degree in the major content area
2. Completion of all course requirements for the co-major in the concentration area within secondary education
3. A minimum GPA of 2.75 in overall course work
4. A minimum GPA of 2.5 in the major area in which the concentration will be sought
5. No grades lower than C- and no unresolved INC grades in professional education course work
6. An Electronic Portfolio, illustrating the student's education course work and professional accomplishments

## Transfer Credit

### Information

Transfer credit will be given for appropriate courses completed at regionally-accredited institutions previously attended in accordance with the ratings contained in the current Report of Credit Given by Educational Institutions of the American Association of Collegiate Registrars and Admissions Officers. Official College transcripts of completed course work should be forwarded directly to the Office of Admission for evaluation as part of the student's application for admission.

Appropriate courses completed with a minimum grade of C- or the equivalent at fully-accredited institutions are transferable. Grades attained at another institution are not recorded on the Hofstra record and are not included in the grade point average to meet graduation requirements. Appropriate courses completed at fully-accredited institutions with a grade of D or the equivalent will be considered for course credit without semester hour value. These may not apply toward the total number of credits needed for graduation. As many as 30 elective credits graded on a pass/fail basis from another accredited institution may be transferred to Hofstra. Students transferring to Hofstra with more than 20 credits graded on a Pass/Fail basis must have the approval of the Undergraduate Academic Affairs Committee. For these students, courses graded Pass/Fail shall not exceed 50% of the total credit hours required for the degree.

1. A course deemed appropriate for transfer is one which might logically be a part of the course of study offered at Hofstra University.
2. The semester hours of transfer credit (advanced standing) allowed a transfer will not necessarily apply to the major selected by the student and may not necessarily satisfy university graduation requirements.
3. A maximum of 64 semester hours is transferable from a junior or community college with the following exceptions:
  - a. engineering programs, 69 semester hours and
  - b. business administration programs, 65 semester hours.
4. The amount of transfer credit per course shall not exceed the amount of semester hour credit allowed at the credit granting institution.
5. Credits earned at institutions on quarter or term systems shall be prorated with the semester system.

NOTE: switching schools and/or majors may entail loss of credit.

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### **Transfer Credit Request**

| <i>Course</i> | <i>Institution</i> | <i>Year</i> | <i>Hofstra Equivalent</i> |
|---------------|--------------------|-------------|---------------------------|
|               |                    |             |                           |
|               |                    |             |                           |

## Professional Electronic Portfolio

|                                       |                    |
|---------------------------------------|--------------------|
| <b>Approved</b><br>(Signature): _____ | <b>Date:</b> _____ |
| <b>Failed</b><br>(Signature): _____   | <b>Date:</b> _____ |

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### Approvals

#### Plan of Study Approval

|                                      |                    |
|--------------------------------------|--------------------|
| <b>Advisor</b><br>(Signature): _____ | <b>Date:</b> _____ |
| <b>Student</b><br>(Signature): _____ | <b>Date:</b> _____ |

#### Departmental Approval for Graduation

|  |                    |
|--|--------------------|
| <b>Coordinator</b><br>(Signature): _____ | <b>Date:</b> _____ |
|--|--------------------|