**GENERAL EDUCATION CORE COURSES REQUIRED FOR THE MAJOR**

**020 – Mathematics**
MATH 1342 Elementary Statistical Methods

**030 – Natural Sciences**
CHEM 1411 General Chemistry I
Choose one course:
- PHYS 1401 College Physics I
- PHYS 2325/2125 University Physics I/II Lab I

**080 – Social and Behavioral Sciences**
GEOG 1303 World Regional Geography

**090 – Institutionally Designated Option (‡)**
SPCH 1315 Applied Communication is strongly recommended.
Minimum grade of B or better is required for admission into the Teacher Education program.

**A – GENERAL EDUCATION CORE – 42 HOURS**

42 hours of General Education Core

**B – MAJOR REQUIREMENTS – 84 HOURS**

**1 – Pedagogy & Professional Responsibility – 18 hours (‡, £)**
EDCI 1101 Step 1: Inquiring Approaches to Teaching (‡, £)
EDCI 1102 Step 2: Inquiring Based Lesson Design (‡, £)
EDCI 3350 Knowing and Learning in Mathematics and Science (‡, £)
EDCI 3355 Classroom Interactions (‡, £)
EDCI 3360 Project Based Instruction (‡, £)
EDCI 4170 Apprentice Teaching 6-12 (‡, £)

**2 – Core Courses for the Major – 23 hours**
ENVR 1402 Environmental Science II
ENVR 3405 Oceanography Lab
ENVR 3334 Conservation of Natural Resources
ENVR 3351 Environmental Sciences Field Methods and Data Analysis
ENVR 4301 Environmental Regulations
ENVR 4325 Environmental Science Internship
ENVR 4399 Research Problems in Environmental Sciences

**3 – Support Courses – 31 hours**
ENVR 1401 Environmental Science I
BIOL 1306/1106 Biology for Science Majors I/II Lab I
BIOL 1307/1107 Biology for Science Majors II/II Lab II
GEOL 1403 Physical Geology
GEOL 1404 Historical Geology
Choose 4 hours from the following courses:
- CHEM 1412 General Chemistry II
- PHYS 1402 College Physics II
- PHYS 2326/2126 University Physics II/II Lab II
- MATH 2413 Calculus I
- MATH 3307 Perspectives on Mathematics and Science - UTeach

**4 – Literacy – 3 hours (‡, £)**
EDLI 4351 Content Area Literacy

**5 – Restricted Environmental Sciences Electives – 9 hours**
Choose from the list on reverse: BIOLOGY, GEOSCIENCES, CHEMISTRY OR INTERDISCIPLINARY

**UTB/TSC Courses**

**Course Equivalents at UTRGV**

<table>
<thead>
<tr>
<th>UTB/TSC Courses</th>
<th>UTRGV Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1342</td>
<td>MATH 1342</td>
</tr>
<tr>
<td>Element Statistical Methods</td>
<td>Element Statistical Methods</td>
</tr>
<tr>
<td>CHEM 1311/1111</td>
<td>General Chemistry I/II Lab I</td>
</tr>
<tr>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 1401/2425</td>
<td>University Physics I/II Lab I</td>
</tr>
<tr>
<td>Physics for Scientists and Engineers I</td>
<td></td>
</tr>
<tr>
<td>GEOG 1303</td>
<td>GEOG 1303</td>
</tr>
<tr>
<td>World Regional Geography</td>
<td></td>
</tr>
<tr>
<td>SPCH 1315</td>
<td>COMM 1315</td>
</tr>
<tr>
<td>Applied Communication is strongly recommended.</td>
<td></td>
</tr>
<tr>
<td>Minimum grade of B or better is required for admission into the Teacher Education program.</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDIT HOURS FOR GRADUATION – 126**

**TOTAL ADVANCED HOURS (minimum) – 36**

**Rev. Date: 3/30/15**

**Publication Date: 3/1/15**

A significant number of courses have changed their course prefix, number, and title. For any additional information, please visit the Academic Advising Center.
Admission requirements to this program: ENVR-1401, ENVR-1402, MATH-1314 (or higher) with "C" or better grade on all these courses.

* Grade of "C" or better is required for a MATH course used to fulfill the General Education Core requirement (MATH-1314 College Algebra or higher).

£ Maintain a minimum of 2.50 GPA with a grade no lower than a C.

† Grade of "C" or better is required for graduation.

‡ Grade of "B" or better is required for graduation.

Restricted Environmental Sciences Electives
Choose 9 hours from one of the following concentrations:

BIOLOGY

Concentration:

BIO 3303 Genetics
BIO 3103 Genetics Laboratory
BIO 3309 Ecology
BIO 3109 Ecology Lab
BIO 3314 Invertebrate Zoology
BIO 3114 Invertebrate Zoology Laboratory
BIO 4302 Marine Zoology
BIO 4102 Marine Zoology Lab
BIO 4304 Ichthyology
BIO 4104 Ichthyology Lab
BIO 4314 Plant Taxonomy
BIO 4114 Plant Taxonomy Lab
BIO 4309 Herpetology
BIO 4109 Herpetology Lab
BIO 4327 Coastal Ecology
BIO 4127 Coastal Ecology Lab
BIO 4350 Ornithology
BIO 4150 Ornithology Lab
BIO 4370 Topics in Biology
BIO 4170 Topics in Biology Lab
BIO 4422 Conservation Biology
BIO 4415 Mammalogy
BIO 4423 Wildlife Ecology and Management

CHEMISTRY

Concentration:

** Choosing upper-level Chemistry courses will add additional semester credit hours to the total hours required for this degree because of pre-requisites.

CHEM 3303 Biochemistry I
CHEM 3103 Biochemistry Laboratory I
CHEM 3305 Analytical Chemistry
CHEM 3105 Analytical Chemistry Lab
CHEM 3310 Physical Chemistry I
CHEM 3110 Physical Chemistry Laboratory I
CHEM 3312 Physical Chemistry II
CHEM 3112 Physical Chemistry Laboratory II
CHEM 4305 Instrumental Methods of Analysis
CHEM 4105 Instrumental Methods of Analysis Laboratory
CHEM 4306 Environmental Chemistry

GEOSCIENCES

Concentration:

GEOL 3436 Hydrology and Water Resources
GEOL 4335 Geomorphology
GEOL 4411 Sedimentology and Stratigraphy
GEOL 4431 Coastal Geology
GEOL 4440 Geographic Information Systems
GEOL 4441 Principles of Remote Sensing
GEOL 4350 Geoscience Field Excursion
GEOG 3333 Latin American Geography
ENVR 4370 Topics in Environmental Sciences

INTERDISCIPLINARY

Concentration:

Any combination of 17 hours from the 3 concentrations listed above.