



**EARTH SCIENCES & GEOLOGY
MAJORS
ADVISEMENT NOTES**

for Fall 2018

MEET WITH YOUR ADVISOR EVERY SEMESTER!

If you don't know who your advisor is ...

- Your primary advisor's name is listed in DegreeWorks in the top row and it should also appear in Banner under student information.
- A printed list is posted outside the department office (SAMC 160) in the display case.
- If worst comes to worst and the name is missing or the wrong advisor appears, come to the department office (SAMC 160) and we will help you.

ADVISEMENT IS MANDATORY!

- Advisement is now Mandatory every semester.
- You need to touch base with your advisor and get your registration pin before you will be able to register

IF14 REQUIREMENTS

Don't forget to check the status of your general education requirements!

<http://intellectualfoundations.buffalostate.edu/intellectual-foundations-2014>

Web page summarizes requirements

- The Degree Works (DW) degree audit system helps you keep track of the courses required to graduate

DEGREE WORKS SUMMARIZES

Three primary categories of courses:

- IFI4 courses
- Major and minor courses
 - Any majors and minors electives
- All-college electives (i.e. everything else)

CHECK SUMMARY AT THE TOP

General Requirements

- Minimum **120 credits** to graduate
- Minimum 32 credits taken at Buffalo State
- **Upper-Division 33 credits**
- Must maintain minimum 2.0 GPA overall and in the major
 - ❖ Note: To enter the Masters of Science Education program you must maintain a 3.0 overall GPA and a 3.0 in your major

OUR MAJORS

- BS – Earth Sciences
 - Earth Sciences (better for students going into teaching)
 - Environmental Earth Science
 - Geology
- BA – Geology

THE DIFFERENCES ...

- The BA in Geology requires CHE 111 and 112 and gives you a choice of 3 upper division electives (consult your advisor)
- The BS Geology track requires GES 111, GES 131, GES 307, GES 450W and is less flexible in terms of course requirements

“NORMAL” COURSE SCHEDULING

Every Semester

GES 101 – Introductory Geology
GES 102 – Historical Geology
GES 103 – Intro. Geol. Lab
GES 241 – Meteorology
GES 223 – Environmental Earth Science
GES 410 – Undergraduate Research Seminar

Fall ONLY Courses

* GES 111 – Oceanography
GES 232 – The Solar System
^ GES 302 – Invertebrate Paleontology
† GES 306 – Sedimentology & Stratigraphy
GES 303 – Mineralogy & Petrology
GES 332 – Stars and Stellar Astronomy
GES 450W – Field Geology

Spring ONLY Courses

GES 131 – Introductory Astronomy
GES 307 – Geomorphology
GES 408W – Structural Geology
GES 405 – Geology of North America
GES 452 – Hydrogeology
GES 460 – Applied Environmental Methods

Courses with variable scheduling

GES 224 – Geological Hazards
GES 310 – Great Lakes Environmental Issues
GES 33x – upper-division astronomy elective
GES 350 – Environmental Geochemistry
GES 360 – Forensic Geoscience
GES 401 – Igneous & Metamorphic Petrology
GES 465 – Tectonics
ENS 300 – Environmental Science Seminar

NOTE:

- †GES 300 and GES 301 – are not currently being offered. Instead take GES 306 – Sedimentology and Stratigraphy in the Fall.
- It will count for both GES 300 and GES 301 (or either one).
- BUT – you might need additional upper division credits! GES 300 and GES 301 are each 3 credits, GES 306 is 4 credits.

FALL 2018

GES 101 – Introductory Geology

GES 102 – Historical Geology

GES 111 – Oceanography

GES 223 – Environmental Earth Science

GES 224 – Geological Hazards

GES 232 – The Solar System

GES 241 – Meteorology

GES 303 – Mineralogy & Petrology

GES 306 – Sedimentology and Stratigraphy

GES 360 – Forensic Geoscience

GES 450W – Field Geology

OTHER CLASSES OF INTEREST IN THE FALL

GEG 307 – Conservation and Environmental Management

GEG 325 – Maps and Mapmaking Using GIS

GEG 386 – Weather and Society

GEG 418 – Remote Sensing (pre. GEG 325)

GEG 425 – Fundamentals of GIS (pre. GEG 325)

OTHER CLASSES OF INTEREST IN THE FALL

BIO 213 – upper division Env. Sci. Minors in good standing can take without taking BIO 111. Need to contact professor for override.

BIO 315W – Ecology

BIO 430W - Stream Ecology

ECO 355 – Economics of Energy and the Environment

SOC 353 – Environment and Society

REMEMBER ...

You can do class searches in Banner!

Note – for some reason ESSE is listed as “Geosciences”

The screenshot shows the Banner@Buffalo State Class Schedule Search interface. At the top, there is a header with the logo "Banner@Buffalo State" in white text on a black background. Below the header, there are links for "HELP" and "EXIT". The main title of the page is "Class Schedule Search". A horizontal yellow line separates the title from the search options. Under the "Subject:" label, a dropdown menu is open, listing various subjects. The "Geosciences" option is highlighted with a green background. Below the subject dropdown, there are three search criteria: "Course Number:" with an empty text input field, "Title:" with an empty text input field, and "Instructional Method:" with a dropdown menu. The "Instructional Method:" dropdown menu is open, showing three options: "All", "100% Online", and "DO NOT USE".

Banner@Buffalo State

[HELP](#) [EXIT](#)

Class Schedule Search

Subject: FINE ARTS
Foreign Language Education
Forensic Science
French
Geography
Geosciences
German
Global Studies
Great Lakes Environmental Sci
Health and Wellness
Higher Ed. & Stud. Affairs Admin

Course Number:

Title:

Instructional Method: All
100% Online
DO NOT USE

SUMMER CLASSES

- GES 101 – Introductory Geology
- GES 131 – Introductory Astronomy

MINORS

- We strongly encourage students to consider taking on a minor. The following are some of the minors that can serve as a strong compliment to your degree:
 - Astronomy (in Earth Sciences and Sci. Ed.)
 - Biology (in Biology)
 - Chemistry (in Chemistry)
 - Environment and Society (in Sociology)
 - Environmental Science (in Earth Sciences and Sci. Ed.)
 - Geographic Information Systems (in Geography)
- If you plan on taking a minor, please discuss your plans with your academic advisor.

MINORS

- A minimum cumulative GPA of 2.0 is required for admission to a minor program
- at least 3 of the courses in each minor must be completed at the college.
- A minor may include no more than 9 total hours that overlap with the student's major disciplinary requirements.
- If you plan on taking a minor, please discuss your plans with your academic advisor.

MINORS

- Students interested in selecting a minor program should contact the coordinating department as soon as possible and complete a Change of Major/Minor form.
- The coordinating department provides advisement on individual minors.

IF YOU ARE INTERESTED IN BECOMING A SCIENCE TEACHER

- You must complete a BA or BS in Biology, Chemistry, Physics or Earth Science with a minimum of 30 credits in the discipline.
- As an undergraduate take
 - EXE 100 (it = EXE 500 and meets the diversity IF)
 - SPF 303 (it = SPF 503)
 - Take the Foreign Language option for your Global Engagement IF

IF YOU ARE INTERESTED IN GOING TO GRADUATE SCHOOL IN GEOLOGY/EARTH SCIENCE

Most graduate school programs expect you to have taken additional core science and math courses – need to check a programs requirements early!

- One year of Chemistry (CHE 111 and CHE 112/114)
 - Environmental programs often expect you to have taken organic chemistry as well.
- One year of Physics (PHY 111 and PHY 112)
- One year of Calculus (MAT 126 AND MAT 127) and/or Statistics (MAT 311)
- Many programs expect you to have some field experience such as a Geology Field Camp (though GES 450W and research experience might substitute)

EARTH SCIENCES AND SCIENCE EDUCATION

HOW TO APPLY

PROGRAMS

SCIENCE TEACHING
CENTER

ASSESSMENT

FACULTY

FACILITIES

BEYOND THE
CLASSROOM

Earth Sciences
Internship And Career
Opportunities

Science Teaching
Opportunities

National And
International Geological
Field Experiences

Professional Geology
Meetings

Student Research And
Creativity Celebration

Student Organizations

NEWS AND EVENTS

GIVING



home » beyond the classroom » earth sciences internship and career opportunities

Earth Sciences Internship and Career Opportunities

Buffalo State's Earth Sciences and Science Education Department offers several field-based courses and has strong relationships with local companies and government agencies which help to provide opportunities for hands-on experiences and work-related internships prior to graduation.

Internship Program

The Internship program is designed to provide students seeking careers in the geosciences with professional work experience. It is generally expected that the student will have junior or senior standing. Internship opportunities are advertised within the department, but may also be initiated by the student. A written agreement between the student, field supervisor and a faculty supervisor will be formulated. For more details contact the Earth Sciences office.

Department Chair: [Elisa Bergslien](#) ✉

New job
opportunities
widget on
department
website!

EARTH SCIENCES INTERNSHIP AND CAREER OPPORTUNITIES

Meteorologist/Multimedia Journalist
WHEC-TV
Location: Rochester , NY
DUTIES: Produces and presents news and weather reports for all platforms. Ensures that all news...
Posting Date: 2017-03-28

Substitute Instructor
Career Systems Development
Location: Cassadaga , NY
Interested in making a difference in young adults' lives between the ages of 16-24? If so we may...
Posting Date: 2017-03-22

New York State Government Summer Internships
New York State Department of Civil Services
Location: New York State , NY
The New York State Department of Civil Service

Opportunities are provided by the Career Development Center (CDC) through the Online Resource for Career Advancement (ORCA). For technical support, contact the [CDC](#).



QUESTIONS ?

**CONTACT YOUR
ADVISOR**

OR

**VISIT THE ESSE
DEPARTMENT OFFICE
SAMC 160**