Life After College

How should I select my major?
What should I select as my major?
Will there be a job for me?
It’s not the degree... 

- It isn’t the piece of paper that matters.
- There are easy routes to a degree that require little real learning.
- This approach produces little long term benefit.
... it's the learning that matters!

- Some degree programs require more.
- You learn more and ultimately benefit more from your efforts.
How do I Select a Major?

- take a variety of courses
- find what interests you
- research the job market
- assess your strengths and weaknesses
What do employers look for?

- good GPA (work habits + knowledge)
- good writing skills
- good oral skills
- experience - intern
- “hot skills”
Geology and Geography

- Career fields for the 21st century.
- You don’t know any geologists or geographers?
Which of these people was trained as a geoscientist?

Colin E. Powell  
General, U.S. Army, Retired  
Former Secretary of State

Bruce Babbitt  
Former Secretary of Interior

Harrison H. Schmitt  
Apollo Astronaut  
Former U.S. Senator (New Mexico)

Kathryn D. Sullivan  
Former Astronaut
Which of these people was trained as a geoscientist?

Colin E. Powell  
General, U.S. Army, Retired  
Former Secretary of State  
BA, Geology, City College of New York

Bruce Babbitt  
Former Secretary of Interior  
BA, Geology, Notre Dame

Harrison H. Schmitt  
Apollo Astronaut  
Former U.S. Senator (New Mexico)  
BS, Geology, Caltech  
PhD, Geology, Harvard

Kathryn D. Sullivan  
Former Astronaut  
BS, Earth Science, UC Santa Cruz  
PhD, Geology, Dalhousie
Don’t know much about geography?
Don’t know much about geography?

He does!

Michael Jordan

BA, Geography
University of North Carolina
Who employs geoscientists?

Engineering Companies
Who employs geoscientists?

Engineering Companies

Petroleum Industry
Who employs geoscientists?

Engineering Companies

Petroleum Industry

Government Agencies
Who employs geoscientists?

Engineering Companies
Petroleum Industry
Government Agencies
Banks
to name just a few
Which of these people is engaged in geological work?
Which of these people is engaged in geological work?

All of them
Nature of Geologist’s Work

- Varied activities
- Lab and office work
- Work outdoors
Nature of Geoscience Work

- Travel
  - Domestic
  - Foreign
Nature of Geoscience Work
It’s not just a major . . .

it’s an adventure!
Geology and Geography

- Career fields for the 21st century.
- Why?
Reason 1 - Breadth of Knowledge

- Both fields involve a broad knowledge base.

  - Average American changes careers 4-6 times.
  - Our majors move more smoothly between careers.
Geology Careers

- Geologists understand how the Earth operates, hence know how to find resources.
Reason 2 - Global Society

- Development of a GLOBAL economy.

⇒ Offers opportunities for those with a broad knowledge base.
Remember, in China when you are one in a million -- there are 1,300 other people just like you.

--Thomas Friedman

*The World is Flat*
Reason 3 - Environment

Geology and Geography study human-environment interactions.

- Critical to human well-being.
- Increases in importance as population increases.
Geology Careers

- Geologists study the interaction of humans and hazardous Earth processes.
Reason 4 - Resources

- We deal with space and resource management.
  - Earth’s population is 6 billion, in 2040 it will reach 12 billion.
  - Space and natural resources are limited!
  - Those that can manage space and resources are already in great demand.
Two Worlds

One Planet
Our majors utilize the most powerful analytical tools related to space and resource management.

- cartography
- remote sensing
- GPS (global positioning systems)
- GIS (geographic information systems)
GIS
Geographic Information Systems

- A VERY powerful and useful tool.

⇒ It is predicted that within 5 years every business, planning agency and government with have GIS trained people running GIS departments - yet today we cannot meet the demand for GIS trained graduates.
Jobs in GIS

- Municipal Government: 26.5%
- County Government: 23.5%
- Private Sector: 18.4%
- State or Provincial Agency: 12.7%
- Regional Agency: 5.3%
- Federal Agency: 4.6%
- Public Utility or Authority: 2.5%
- Regional Consortium: 1.8%
- Other: 4.7%

Glossary

IT: Information Technology
URISA: Urban and Regional Information Systems Association
# Jobs in Petroleum Geology

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Geology and Geography Major

- Research these fields yourself.
- Check out the job market.
- What about a GIS minor?
- Ask lots of questions!