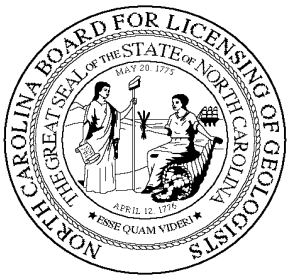


Licensure of Geologists in North Carolina (and elsewhere)

--Why it's important

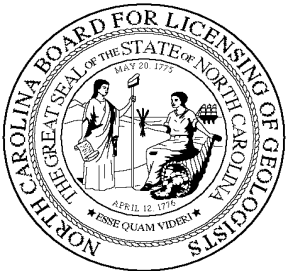
--How to become licensed



North Carolina Board for Licensing of Geologists

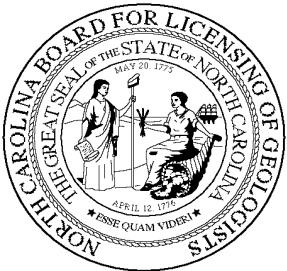
The Future Looks Promising for Careers in Geology!

- Projected 16% growth in geoscience jobs, 2012-2022, Job outlook – Faster growth than average (*Bureau of Labor Statistics, Occupational Outlook Handbook*).
- “Society needs more geoscientists than there are currently students” (*Environmental Science and Technology* 2010, 44 (2), pp. 550-555)



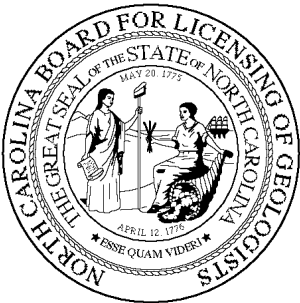
Why Pursue Licensure?

- Required for many positions in > 30 U.S. states, including North Carolina, and Canada
- Impressive professional accomplishment, often associated with pay increase and/or promotion
- Can be licensed in other states via reciprocity/comity



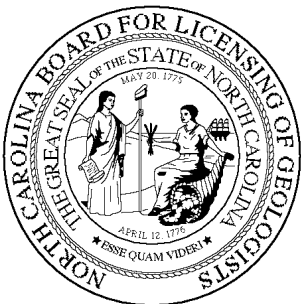
North Carolina Board for Licensing of Geologists

- Established by the Geologists Licensing Act, NC General Statute 89E in 1985
- Requirements, NCAC 21 Chapter 21
- Professional Code of Conduct for licensed geologists:
“...to safeguard the life, health, property and welfare of the public and to establish and maintain a high standard of integrity, skills, and practice in the profession of geology...”



North Carolina Board for Licensing of Geologists

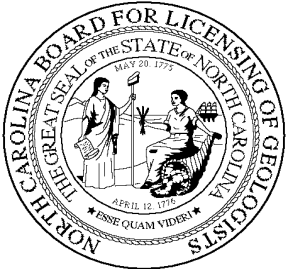
- Offers licensure for North Carolina geologists and corporations engaged in geologic work
- Five members appointed by the governor – mining geologist, academic geologist, consulting geologist, corporate geologist, and a non-geologist – plus the State Geologist (ex officio)
- Member, National Association of State Boards of Geology (ASBOG)
- Administers exams for licensure in North Carolina



The Licensing Exam

NCBLG administers the ASBOG exam

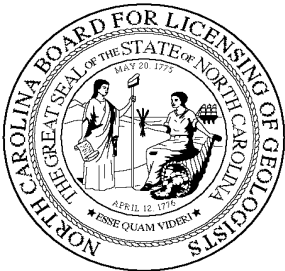
- Two tests:
 - Fundamentals of Geology (FG) - Part I
 - Practice of Geology (PG) - Part II
- Each test is multiple-choice
- 4 hours to take each test
- Exams given in March and October



Fundamentals of Geology Exam – FG

Minimum Requirements to Apply:

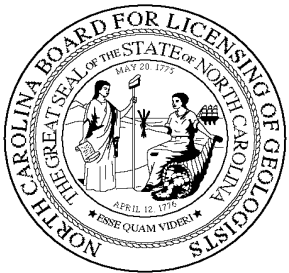
- Graduation from college or university with a degree in geology or have completed 30 credit hours in geology, of which 24 are advanced level.
- FG *should* be taken immediately after graduation.



Practice of Geology Exam – PG

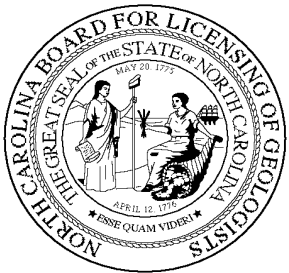
Minimum Requirements to Apply:

- FG requirements **PLUS:**
- Three years of geological experience after graduation. A master's degree in geology fulfills two years of the experience requirement.
- Job-experience verification is required.
- Five references from geologists or professional engineers.



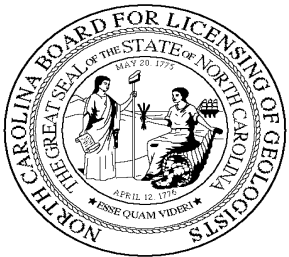
How to Apply

- Application instructions available on NCBLG website (<http://www.ncblg.org>)
- Be aware of deadlines for submittal – deadline to order for March 15, 2019 exam is January 25, 2019, but first you must be approved by the Board to take the exam. The one-time application fee is \$55.
- The board reviews submitted applications and approves candidates to take the exam.
- Exams given in March and October at the McKimmon Center.
- Parts I (\$230) and II (\$280) both given each time; candidates can take one or both on a given day.

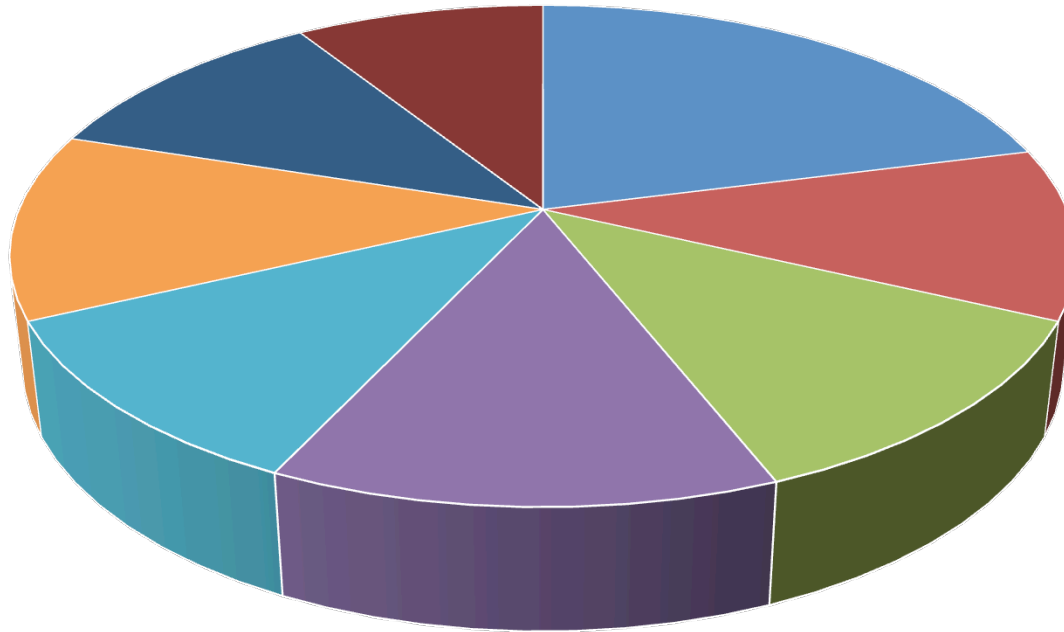


The Licensing Exam –What’s On It?

- Content Based on ASBOG Task Analysis Survey:
 - Conducted every 5 years; most recent TAS 2015
 - Surveys academic and professional geologists in the U.S. and Canada
 - Rates importance of 43 geologic tasks in a series of ‘domain areas’ for protecting the general public
 - Includes ethics issues faced by geologists
- FG focus: information gained in an academic setting
- PG focus: skills/knowledge applied in work setting



ASBOG® Task Analysis 2015 FG Test Blueprint -- Domain Percentages

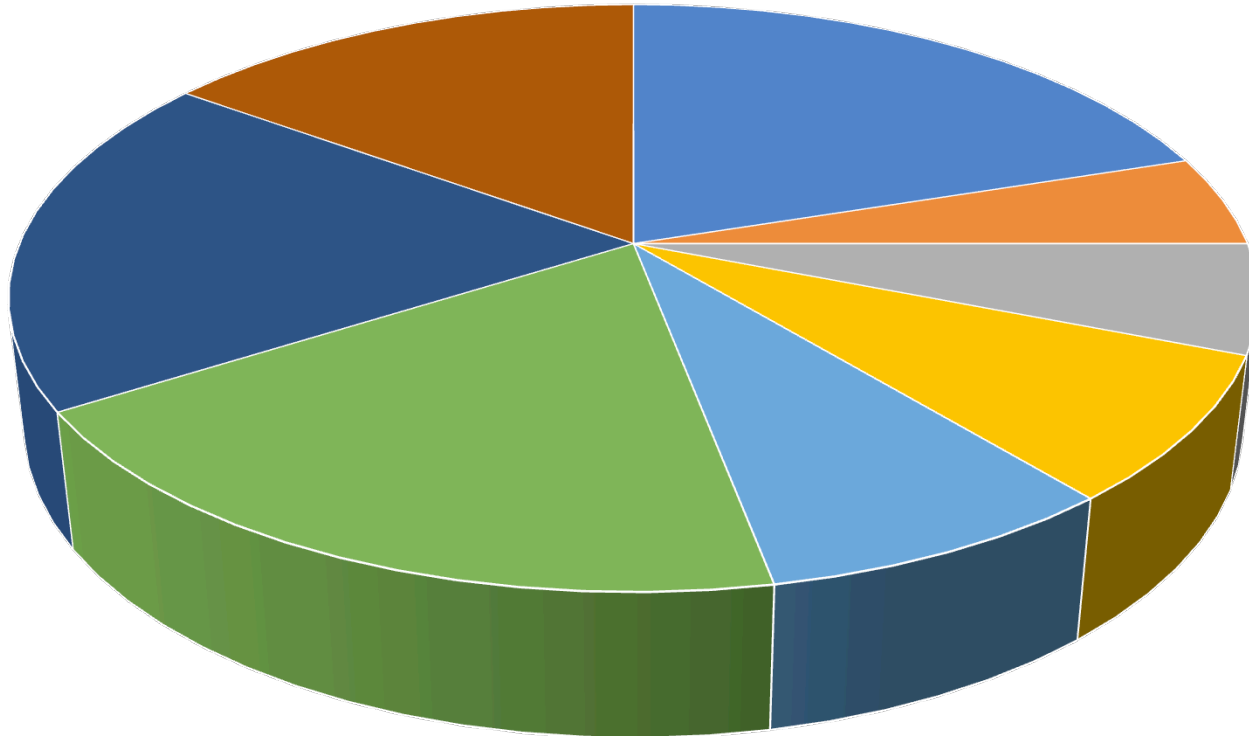


- **A. General and Field Geology, 21%**
- **B. Mineralogy, Petrology, and Geochemistry, 11%**
- **C. Sedimentology, Stratigraphy, and Paleontology, 12%**
- **D. Geomorphology, Surficial Processes, and Quaternary Geology, 13%**
- **E. Structure, Tectonics, and Seismology, 11%**
- **F. Hydrogeology, 12%**
- **G. Engineering Geology, 11%**
- **H. Economic and Resources Geology, 9%**

From FG to PG

	FG	PG	Delta
General and Field Geology	21	20	-1%
Mineralogy, Petrology, and Geochemistry	11	5	-6%
Sedimentology, Stratigraphy, and Paleontology	12	6	-6%
Geomorphology, Surficial Processes, and Quaternary Geology	13	8	-5%
Structure, Tectonics, and Seismology	11	8	-3%
Hydrogeology	12	19	7%
Engineering Geology	11	19	8%
Economic and Resources Geology	9	15	6%
	100	100	

**ASBOG® Task Analysis 2015
PG Test Blueprint -- Domain Percentages**



- **A. General and Field Geology, 20%**
- **B. Mineralogy, Petrology, and Geochemistry, 5%**
- **C. Sedimentology, Stratigraphy, and Paleontology, 6%**
- **D. Geomorphology, Surficial Processes, and Quaternary Geology, 8%**
- **E. Structure, Tectonics, and Seismology, 8%**
- **F. Hydrogeology, 19%**
- **G. Engineering Geology, 19%**
- **H. Economic and Resources Geology, 15%**

The Licensing Exam –Tips for Preparation

- Take the FG as soon as feasible
- Download ASBOG's Candidate Handbook at www.asbog.org:
 - Detailed instructions for taking the exam
 - Information on the exam blueprints and topics
 - Sample questions
- REVIEW!
- http://c.ymcdn.com/sites/www.aegweb.org/resource/resmgr/Additional_Resources/asbog_study_hints_0812.pdf
- ASBOG data show that first-time candidates perform better than return candidates:

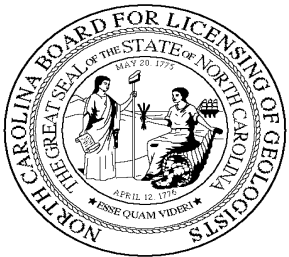
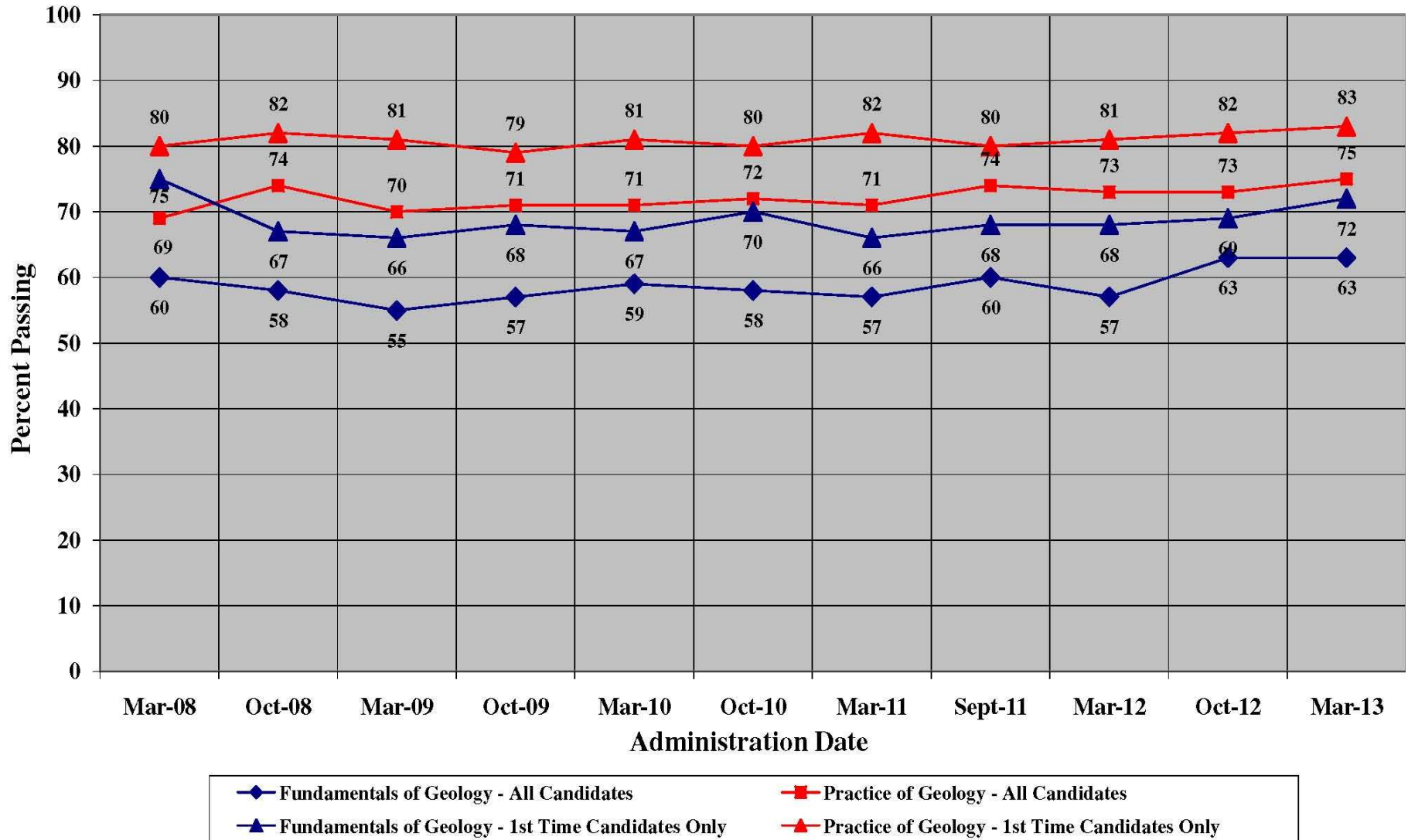


Figure 2
ASBOG® FG & PG Examinations
Passing Rates by Administration
1st Time Candidates vs. All Candidates
(March 2008 - March 2013)

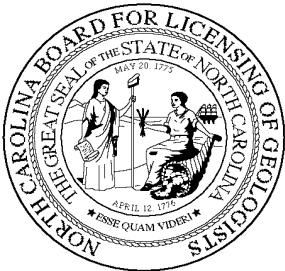


Information Resources:

- **North Carolina Board for Licensing of Geologists**

- Board Executive Director, Barbara Geiger at Upton Associates
- 3733 Benson Dr., Raleigh NC 27609
- 919-850-9669
- <http://www.ncblg.org>

- **National Association of State Boards of Geology (ASBOG) <http://www.asbog.org>**



Licensure of Geologists in NC

Questions?

