MS Geology Program
2015-2016

EXTERNAL FINANCIAL SUPPORT
Funds are available from a variety of sources to supplement student income and to defray some of the costs of thesis research and preparation. Our graduate students have been very successful at procuring this support in the past. Several scientific societies provide modest funding for graduate students research on a competitive basis. These societies include the American Association of Petroleum Geologists (AAPG), Geological Society of America, Four Corners Geological Society, Colorado Scientific Society, Rocky Mountain section of SEPM, and Sigma Xi. Most of these organizations require letters of reference and a short abstract regarding your thesis project. As a professional courtesy, you should ask your referees for letters at least two weeks before the deadline. Deadlines (check these as they might change): January 31 for AAPG, February 1 for the Geological Society of America, March 15 for Four Corners Geological Society, March 31 for the Colorado Scientific Society, April 1 for Rocky Mountain section of SEPM, and March 15 and October 15 for Sigma Xi. Information on these grants can be found online. Talk with your advisor or the graduate coordinator regarding these applications, and visit their web sites.

An additional source of support is the NAU Geology Program alumni association called "The Friday Lunch Clubbe". This organization solicits proposals for fieldwork funding, and provides support ranging from $50 to as much as $1000. Humor, as well as good science, is rewarded but vulgarity is not. Be professional.

MS THESIS COMMITTEE IN GEOLOGY
Two of the three committee members must be regular NAU Geology faculty.

PROGRAM OF STUDY
Students take at least 26 credit hours of course work and at least 6 hours of additional thesis research (GLG 699). All students must complete EES 605, EES 606 for one credit each; of the remaining 24 hours, 18 must be in Geology. The remaining hours can be combinations of any NAU Geology graduate courses (including the courses below), transfer credit, and 400-level or above courses in other NAU departments. To fully prepare for thesis work and a professional career, some students might find it necessary to complete more than 26 hours of course work. Note that 1- and 2-hour methods classes are not included in the “Fields of Emphasis” blocks (see below) nor are courses not recently or regularly offered.

To encourage breadth in your graduate curriculum, you are required to complete at least one course in three of the four fields of emphasis (blocks) identified below. GLG 698 seminars and GLG 599 classes might satisfy certain categories, must use letter grading and be approved by the Geology Graduate Committee. GLG 587 (Professional Development Seminar), GLG 697 (Independent Study) and GLG 685 (Graduate Research) are only counted toward the 26 hours in very unusual situations. The Geology Graduate Committee decide these on a case-by-case basis. An example of a two-year Program of Study for the M.S. in Geology is included at the end of this section. You may take up to two courses from outside the Geology Program with your committee’s approval. Any additional courses taken outside of Geology require approval of the Graduate Committee. A memo explaining the rationale of the request should be submitted. That
approval should be obtained BEFORE taking a third course outside of Geology. **Other than EES 605/606, only graduate courses offered on a letter grade basis will count toward satisfying Program of Study requirements; P/F courses other than EES 605/606 cannot be counted.**

**Fields of Emphasis: Distribution Blocks for MS Program in Geology**

**Hard-Rock Geology**
- GLG 520 Volcanology
- GLG 570 Geochemistry
- GLG 612 Igneous Petrology
- GLG 615 Metamorphic Petrology
- GLG 516 Petrologic Phase Equilibria
- GLG 617 Isotope Geology

**Soft-Rock Geology**
- GLG 530 Vertebrate Paleontology
- GLG 625 Siliciclastic Petrology
- GLG 627 Depositional Systems
- GLG 629 Evolution of Sedimentary Basins
- GLG 632 Advanced Paleontology

**Geophysics, Structure, and Tectonics**
- GLG 542 Advanced Structural Geology
- GLG 560 Introduction to Applied Geophysics
- GLG 561 Regional Tectonics
- GLG 565 Introduction to Solid Earth Geophysics

**Hydrogeology and Quaternary Geology**
- GLG 537 Quaternary Geology
- GLG 572 Stable Isotope Geochemistry
- GLG 575 Geochemistry of Natural Waters
- GLG 596 Quaternary Climate Change
- GLG 637 Geochronology of Quaternary Depositional Systems
- GLG 670 Advanced Hydrogeology